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What's New at Fluke



Fluke 1770 Series Power Quality Analyzers

The faster, easier way to perform power quality studies.

- Measures power quality parameters (harmonics, dips, swells, unbalance, inrush etc.)
- At-a-glance "Advanced Power Quality Health" summary screen with graphical representation
- Transient capture optimized for the capture of high-speed transients found in electrical systems
- Create custom reporting templates with Energy Analyze Plus software

For more on the Fluke 1770 Series Power Quality Analyzers, see page 94



Fluke 393 FC Solar Clamp Meter

The World's first CAT III 1500 V current clamp designed for the solar industry.

- Safe and accurate voltage measurement up to 1500V DC
- DC power measurement, showing readings in kVA steps
- IP54 rating for dust and water making it ideal for work outdoors
- Meets IEC 61730-1 standard for photovoltaic panels

For more on the Fluke 393 FC CAT III 1500 V Clamp Meter, see page 40

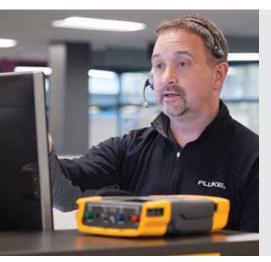


Fluke SMFT-1000 Solar Multifunction Tester

Multifunction PV Tester and Performance Analyzer, I-V Curve Tracer. An all-in-one test solution.

- Full sequence safety testing-IEC 62446-1, Category 1
- ROI and system performance testing-IEC 62446-1, Category 2
- Precise I-V curve measurements
- Fluke's "Keep the Leads" system
- TruTest[™] Solar Software

For more on the Fluke SMFT-1000, see page 10



Fluke Premium Care

Reduce unplanned expenses and get the most out of your tools.

When you invest in the best equipment in the industry, you want your money to go as far as possible.

Fluke Premium Care provides coverage above and beyond your tool's original product warranty, so you don't need to worry about unexpected downtime caused by damaged test equipment, accessories, or tools in need of calibration or repair.

For more on the Fluke Premium Care plans, see pages 22-23

2



Fluke FEV300 Electric Vehicle Charging Station Adapter

Test and troubleshoot the functionality and safety of electrical vehicle power supply equipment, easily and reliably.

- Simulate current capabilities of charging cables
- Simulate various vehicle charging states
- Simulate earth fault
- Includes Type 1 and Type 2 plug vehicle connectors
- Test in accordance with IEC/EN 61851-1 and IEC/HD 60364-7-722

For more on the Fluke FEV300 Charging Station Test Adapter kit, see page 13



Fluke Networks LinkIQ[®] Cable+Network Tester

Cable Testing you Trust. Network Testing you Need.

- Cable Performance testing up to 10GBASE-T
- Network features include: ping, switch diagnostics (name, port / VLAN number, and advertised data rates)
- Ethernet Alliance certified PoE Verification of PoE class (1-8) and power,
- Displays cable length, wire map, and distance to open or short
- Manage results and print reports from LinkWare $^{\mbox{\tiny TM}}$ PC

For more on the LinkIQ, see page 184



Fluke MDA-550 Series III Motor Drive Analyzer

Simplify complex motor-drive troubleshooting.

- Measure key motor drive parameters
- Provides guided measurements for motor-drive input with graphical step-by-step voltage and current connection diagrams
- Create reports quickly and easily
- Measure additional electrical parameters with full 500 MHz oscilloscope

For more on the Fluke MDA-550 Series III, see page 103



Fluke 831 Laser Shaft Alignment Tool

Precision laser alignment made easy.

- Fast, easy, and precise alignment that adapts to your needs
- Rugged build and the highest-in-class IP rating
- Single-laser technology for the fastest, most accurate laser alignment
- Cloud connection enables real-time collaboration
- Use up to 8 measurement points to achieve precision alignment on vertical machines

For more on the Fluke 831, see page 141

Renewable Energy

The solar industry is accelerating with an estimated market value of nearly \$370 billion by 2030. With market growth comes improved solar technology and a more affordable transition to solar. Solar technicians and managers need to be able to install and service equipment quickly, safely and efficiently.

4

RENEWABLE ENERGY TOOLS

Solar energy and electric vehicle charging infrastructure are expanding worldwide at a fast pace. From gridtied and off-grid, to hybrid and backup systems, critical infrastructure must be maintained for reliability and efficiency.

The growth of the solar energy industry requires new solar testing equipment solutions for electricians, PV installers, and technicians. From solar clamp meters, solar irradiance meters and photovoltaic testers for residential needs, to commissioning a new PV array or routine maintenance on a solar farm or photovoltaic power station, Fluke testing equipment has you covered.



Irradiance and Temperature

Fluke Irradiance Meters have been designed from the ground up to simplify the installation, commissioning, and troubleshooting of photovoltaic arrays, measuring irradiance, temperature, inclination and direction of the solar array in a single handheld tool.

Whether working on a roof-mounted system or on a large field installation, Fluke Irradiance Meters are the single-handed solution that every solar installer and technician needs in their tool bag.

See page 8

Multifunction Tests and I-V Curve Tracing

Test that PV systems are performing to their optimal power output as well as operating safely. Designed for PV professionals that provide installation, commissioning and maintenance services, you can rely on Fluke to provide a complete PV testing solution that conforms to IEC 62446-1 standards.

Fluke's multifunction PV tester includes a full sequence of safety and performance tests quickly and accurately to save you time and money with features like auto testing, instant on-screen I-V curve results, and a unique "Keep the Leads" system which allows for multiple tests through a one-time setup of test leads. See page 10

Solar Data Management and Reporting Software

Whether you are analyzing panel efficiency through I-V curves, or safety testing the system through the Category 1 test regime in conformance to IEC 62446-1, proper data management is critical for producing easy-to-understand reports for clients.

TruTest[™] enables solar testing, asset management, data storage and reporting on a single software platform that covers certification and documentation needs.

See page 11



Electric Vehicle Charging Station Operation

Test the safety and performance of type 1 or connector for Tesla[™] station, level 1 or level 2 electric vehicle AC charging stations (EVSEs) with Fluke's EVSE testing solutions. Verify an EVSE is working properly after install, during periodic maintenance or troubleshooting.

You can perform a variety of tests including ground fault checks, insulation of wires, measuring voltage and duty cycle to see max current available for charging all with one adapter. The adapter acts as an electric vehicle when connected to an EVSE for easy performance and maintenance testing.

See page 13

Solar Technician/Installer

Focus:

- Mechanical and electrical design
- Conduct commissioning
- Troubleshooting
- Job needs:
- Irradiance meter/PV tester
- Digital multimeter
- Clamp meter
- Temperature/Thermal
- Insulation and power quality
- Insulated hand tools
- Earth ground

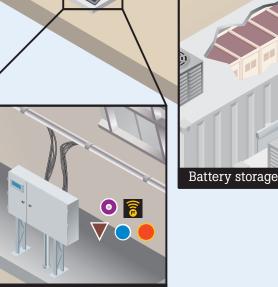
PV Designer/Electrician

 \square

Focus:

Job needs:

- Conduct commissioning
- Preventative
 maintenance
- Troubleshooting
- Irradiance meter/PV tester
- Digital multimeter
- Clamp meter
- Temperature/Thermal
- Insulation and power quality
- Insulated hand tools
- Earth ground



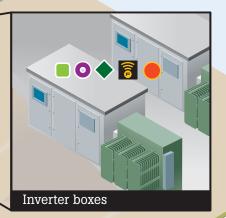
Combiner box

Solar energy solutions



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Solar Advisor

Focus:

- Mechanical and electric design
- Troubleshooting

Job needs:

- ▲ Irradiance meter/PV tester
- Digital multimeter
- Clamp meter
- Temperature/Thermal

Operations and Maintenance Manager

Focus:

- Lead preventative maintenance
- Troubleshooting
- Monitoring

Job needs:

- Irradiance meter/PV tester
- Digital multimeter
- Clamp meter
- Temperature/Thermal
- Insulation and power quality
- ★ Battery analyzer
- Insulated hand tools

Solar energy solutions

Get more information on solar energy solutions at fluke.com/solar-energy-tools Based on you. Built by Fluke.

Learn how Fluke solutions can save you time and money while increasing your productivity at www.fluke.com

e		Battery Analyzer	Earth Ground		Software		Accessories	
	Temperature	Battery analyzer	Earth ground	Stakeless clamp	Fluke Connect TM	TruTest™	Insulated hand tools	Test leads
	64 MAX	★ BT521	1625-2	1630-2				PVLEAD 1, PVLEAD 3

Fluke IRR1-SOL Solar Irradiance Meter



One easy-to-use tool for testing solar panels and PV systems.

The Fluke IRR1-SOL Irradiance Meter has been designed from the ground up to simplify the installation, commissioning and troubleshooting of photovoltaic arrays and solar panels. Whether surveying, installing, executing maintenance, or checking the performance of solar panels or photovoltaic systems there are four critical measurements that technicians require, and that the Fluke IRR1-SOL Irradiance Meter delivers:

- Solar irradiance: Make instantaneous measurements to determine the watt per square meter solar irradiation, required by the IEC 62446-1 standard
- Ambient and PV module temperature: Measure temperature by either placing the meter directly on the panel or by connecting the external probe
- Array orientation: Find cardinal direction with the built-in compass
- Tilt angles: Verify inclination of a roof or panel with the tilt function

Built to go where you go

With a rugged, compact design, a protective carrying case, and an easy-to-read, high contrast LCD screen to read measurements in direct sunlight, the IRR1-SOL can go where you go. The simple user interface, instantaneous solar irradiation measurements, and built-in temperature sensor make it easy to meet the IEC 62446-1 requirements for testing, documenting, and maintaining photovoltaic systems.

The IRR1-SOL features:

- A high precision monocrystalline solar sensor for irradiance measurements up to 1400 W/m²
- Two options for temperature measurement – a built-in sensor and an external suction mount probe
- An integrated compass
- . An inclination sensor for the tilt function

Learn More

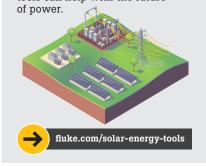




Key Features	IRR1-SOL			
Irradiance				
Measuring Range	50 to 1400 W/m ²			
Resolution	1 W/m ²			
Measuring Accuracy	±(5% + 5 Digit)			
Temperature Measurer	nent			
Measuring Range (° C)	-30° C to 100° C (-22 °F to 212 °F)			
Resolution	0.1 °C (0.2 °F / 1 °F @>100 °F)			
Measuring Accuracy	±1° C (±2 °F) @ -10° C to 75° C (14 °F to 167 °F) ±2° C (±4 °F) @ -30° C to -10° C (-22 °F to 14 °F) ±2° C (±4 °F) @ 75° C to 100° C (167 °F to 212 °F)			
Note: Temperature meas	surement response time: ~ 30 seconds			
Inclination Angle				
Measuring Range	-90° to +90°			
Resolution	0.1°			
Measuring Accuracy	±1.5° @ -50° to +50°, ±2.5° @ -85° to -50° and +50° to +85°, ±3.5° @ -90° to -85° and +85° to +90°			
Compass				
Measuring Range	0° to 360°			
Resolution	1°			
Measuring Accuracy	±7°			
Note: a) Compass Measurements valid for device inclination between -20° and +20° to horizontal. Measurements taken outside that range appear as "". b) Result is referred to magnetic North				
Protection				
In many Ducto stices	IEG COEDO, IDAO			

Ingress Protection	IEC 60529: IP40
General Specifications	
Battery Life (typical)	50 hour (≤9000 readings)
Weight	231 g (8.14 oz)

Work in the **Solar Industry?** Visit the link to learn how Fluke tools can help with the future



Included Accessories

FLK-80PR-IRR External **Temperature Probe with Suction** Cup, C250 Carrying Case with Shoulder Strap, Four AA Alkaline Batteries and User Manual.

Ordering Information

FLK-IRR1-SOL Solar Irradiance Meter

Contact your local distributor for price and availability.

Fluke IRR2-BT Solar Site Survey Irradiance Meter Pro with Mounting Bracket



Fluke IRR2-BT



Key Features

Make the critical measurements needed for installing, testing, maintaining, and reporting on solar panels or systems with one, easy-touse tool

The Fluke IRR2-BT Irradiance Meter Pro includes the same benefits of the IRR1-SOL with additional features:

- Measure solar irradiance, ambient and PV module temperature, array orientation and tilt angles
- · Make instantaneous measurements to determine the watts per square meter solar irradiation (up to 1400 W/m²), required by IEC 62446-1 standard
- High contrast LCD with large numbers for easy readability in direct sunlight
- Includes mounting bracket for accurate irradiance and temperature readings at the panel

IRR2-BT

• Part of the Fluke solution for I-V curve measurements, the IRR2-BT wirelessly communicates with the SMFT-1000 for instant and accurate readings

noy i outuros	
Irradiance	
Measuring Range	50 to 1400 W/m ²
Resolution	1 W/m ²
Measuring Accuracy	±(5% + 5 Digit)
Temperature Measurer	nent
Measuring Range (° C)	-30° C to 100° C (-22 °F to 212 °F)
Resolution	0.1 °C (0.2 °F / 1 °F @ > 100 °F)
Measuring Accuracy	±1° C (±2 °F) @ -10° C to 75° C (14 °F to 167 °F) ±2° C (±4 °F) @ -30° C to -10° C (-22 °F to 14 °F) 75° C to 100° C (167 °F to 212 °F)
Note: Temperature meas	surement response time: ~ 30 seconds
Inclination Angle	
Measuring Range	-90° to +90°
Resolution	0.1°
Measuring Accuracy	±1.5° @ -50° to +50°, ±2.5° @ -85° to -50° and +50° to +85°, ±3.5° @ -90° to -85° and +85° to +90°
Compass	
Measuring Range	0° to 360°
Resolution	1°
Measuring Accuracy	±7°
	ments valid for device inclination between -20° and +20° to horizontal. device inclination between -20° and +20° to horizontal. Outside that range,

Me shows on the LCD. Result is in reference to magnetic north.

Memory					
Туре	EEprom				
Size (kB/records)	64 kB/6400				
Recording time	17 hours				
Communication	BT: BL653 module (only with SMFT)				
RTC	Yes (super CAP supply)				
Communication	BT: BL653 module (only with SMFT)				
General Specifications					
Battery Life (typical)	50 hours (>9000 readings)				
Weight	231g (0.5 lb)				
Size	150 mm x 80 mm x 35 mm (5.90 in x 3.14 in x 1.37 in)				

Included Accessories

FLK80PR-IRR External Temperature Probe with Suction Cup MB1-IRR Mounting Bracket Carrying Case with Shoulder Strap (4) AA Alkaline Batteries **User Manual**

Ordering Information

FLK-IRR2-BT Solar Irradiance Meter

Contact your local distributor for price and availability.





fluke.com/solar-energy-tools

Learn More

Fluke SMFT-1000 Multifunction PV Tester and Performance Analyzer, I-V Curve Tracer Kit



All-in-one test solution to verify PV system performance and safety, expedite client reporting

Test that PV systems are performing to their optimal power output as well as operating safely with the Fluke SMFT-1000 multifunction tester with I-V curve tracing. Designed for PV professionals that provide installation, commissioning and maintenance services to systems that operate at 1000 V DC or under, the SMFT-1000 provides a complete PV testing solution that conforms to IEC 62446-1 standards. Through Fluke's TruTest[™] Software, measurement data from solar site installation and commissioning testing can be easily imported, organized and analyzed for effortless reporting without having to bring a laptop on-site.

Critical testing features for periodic inspection of PV systems

Full sequence safety testing - IEC 62446-1 Category 1:

- Protective resistance earth (RLO)
- Voltage on open circuit, including polarity (VOC)
- Short circuit current (ISC)
- Insulation resistance (RINS)
- ROI and system performance testing IEC 62446-1 Category 2:
- I-V Curve tracing and software analysis with TruTest™
- Irradiance, temperature, tilt, cardinal direction

Specifications		SMFT-1000				
Protective conductor resistance (RLO)						
Display range	Measuring range Resolution		Accuracy			
0.00 Ω - 19.99 Ω	0.20 Ω - 19.99 Ω	0.01 Ω	± (2 % + 2 Digit)			
20.0 Ω- 199.9 Ω	20.0 Ω - 199.9 Ω	0.1 Ω	± (2 % + 2 Digit)			
200 Ω - 2000 Ω	200 Ω - 2000 Ω	1 Ω	± (5 % + 2 Digit)			
Test current	\geq 200 mA (\leq 2 Ω + Rcomp)					
Test voltage	4 V DC 10 V DC					
Polarity reversing	Yes					
Test lead zero (Rcomp)	Up to 3 Ω					
PV module/PV string, oj	pen-circuit voltage (Voc)					
0.0 V - 99.9 V	5.0 V - 99.9 V	0.1 V	± (0.5 % + 2 Digit)			
100 V - 1000 V	100 V - 1000 V	1 V				
Polarity test	Yes					

General Specifications	
Weight	1.4 kg (3.09 lb)
Battery	6 AA IEC LR6
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-30 °C to 60 °C (-22 °F to 140 °F) batteries removed
Operating altitude	up to 2000 m
Storage altitude	up to 2000 m

Included with SMFT-1000:

- Fluke SMFT-1000-BP Professional Tool Backpack
- SMFT-1000 Multifunction PV Analyzer
 - Carry Strap
 - Fuse Pack
 - Adapter Cable IRDA Optical-to-USB
 - Zero Adapter
- IRR2-BT Wireless Solar Irradiance Meter Pro
 - 80PR-IRR External
 - Temperature Probe
 - Mounting Bracket for solar panelCarry Case
- i100 AC/DC Current Clamp 100 A
 - TPAK Magnet Set
- TP1000 Test Probe with Remote Test Button
- TL1000 Test Lead Set
- TL1000-MC4 Test Lead Set
- TL1000/30M Test Lead
 on Reel
- Coupler set
- (6) AA Batteries



Recommended tools for use with the SMFT-1000

- TruTest[™] Data Management and Reporting Software
- 393 FC CAT III 1500 V Solar Clamp Meter
- 87V MAX True-rms Digital Multimeter
- 1587 FC Insulation Multimeter
- Ti480 PRO Infrared Camera
- 1625–2 GEO Earth Ground Tester
- 500 Series Battery Analyzers
- Pomona PVLEAD3 MC4 Solar Clamp Test Lead Set

Ordering Information

S

MFT-1000*	Multifunction
	PV Tester and
	Performance
	Analyzer, I-V
	Curve Tracer

* Also available as a kit with Advanced TruTest™ Software and MC4 Solar Clamp Test Lead Set

FLUKE ®

Renewable Energy

Fluke TruTest[™] Solar Data Management and Reporting Software



The easy-to-use data management solution

Fluke TruTest[™] Software is designed to eliminate the hassle associated with traditional solar system data management and reporting. Whether you are analyzing panel efficiency through I-V curves, or safety testing the system through the Category 1 test regime in conformance to IEC 62446-1, proper data management is critical for producing easy-to-understand reports for clients. Compatible with the Fluke SMFT-1000 Multifunction PV Tester and Performance Analyzer, TruTest™ Software allows you to quickly and easily import measurement results directly from your solar multifunction tester to computer, organize and analyze the data, compare individual asset data against previous measurements imported and provide a comprehensive and visual client report.

With a streamlined user interface and intuitive workflow, measurement data can be easily formatted into printable test certificates and reports complete with your company logo and electronic signature.

- Easily manage measurement data
- · Quickly create test certificates and reports
- Free updates for 5 years after installation
- · Easy data collection and database transfers
- · Enables manual data entry
- Intuitive user interface
- · Fast and simple operations

System Requirements

Туре	Requirement			
Operating system	 Microfoft Windows 10, 64-bit and 32-bit (recommended) Microfoft Windows 8/8.1, 64-bit and 32-bit Microfoft Windows 7 with Service Pack 1, 64-bit and 32-bit 			
System memory	Minimum 4 GB RAM (64-bir) or 2 GB RAM (32-bit)			
Hard disk space	Minimum 2 GB available hard disk space			
Display resolution	Minimum screen resolution 1366 x 768			
Communication interfaces	USB			

Streamlined data management

Manage test results, client and site data with ease, and create reports quickly using the intuitive, modern user interface and custom-report builder.

Single solar platform

TruTest[™] enables solar testing, asset management, data storage and reporting on a single software platform that covers certification and documentation needs.

Dashboard interface

On-screen intuitive dashboard interface allows the user to see the status of all their clients instantly and navigate to further levels of detail if desired.

Comprehensive reporting

Fluke TruTest[™] Software simplifies the reporting process so you can produce easy-to understand test certificates and reports as quickly as possible, saving you time and money. Easily visualize the status of assets with clear pass/fail results. Tests in accordance with standards such as IEC 62446-1 and EU directive 2009/104/EC (BetrSichV) are available at the touch of a button, and a pre-configured template ensures that no matter your testing standards TruTest[™] Software has you covered.

Demo software and software packages

Free demonstration software is available at www.fluke.com/ trutestsoftware. After downloading start the installation by double clicking on the software file. The setup program will guide you through the installation procedure. Please follow the installation instructions displayed on the screen.

After purchasing TruTest[™] Lite or TruTest[™] Advanced, you will be provided with a code that will give you full access to the features purchased.







Ordering Information

FLK-TRUTEST-**LITE Software**

TruTest Lite Software Package license code

FLK-TRUTEST-**ADV Software**

TruTest Advanced Software Package with enhanced functionality

FLK-TRUTEST-CD TruTest Software Disc

license code Software disc (if unable to download from website). License code sold separately

Contact your local distributor for price and availability.

Renewable Energy

Three NEW Fluke Kits for Solar PV Testing



Solar Tools Kit with 87V MAX Digital Multimeter and Solar Test Leads



Solar Tools Kit with Fluke 393 FC Clamp Meter and Solar Test Leads



Solar Tools Kit with 393 FC Clamp Meter, Irradiance Meter and Solar Test Leads



Solar Tools Kit with 87V MAX Digital Multimeter and Solar Test Leads

The Fluke 87V MAX is the ideal electrical troubleshooting solution for solar inverters, combiner boxes, and battery storage systems. Safely connect the Pomona PVLEAD1 MC4 Test Leads to the meter to validate voltage from individual panels or a series of panels in a photovoltaic (PV) array.

- 4-metre drop tested with industrial casing and holster
- Measure the voltage of PV arrays safely and accurately
- IP67 case for extreme environments
- Meter rated to CAT III 1000 V / CAT IV 600 V
- MC4 test lead sets rated to CAT III 1000 V / CAT IV 600 V
- Three year warranty

Solar Tools Kit with Fluke 393 FC Clamp Meter and Solar Test Leads

The Fluke 393 FC CAT III 1500 V True-RMS Clamp Meter with iFlex is designed for solar photovoltaic installation technicians and maintenance professionals working in high voltage DC environments.

- Measure safely with this CAT III rated clamp meter
- Thin jaw for access to cables in crowded combiner boxes
- Sturdy IP54 rating for outdoor use and on solar arrays
- Work efficiently with DC power measurement, audio polarity, and visual continuity
- Pomona PVLEAD1 and PVLEAD3 Test Lead Sets are rated to CAT III 1000 V / CAT IV 600 V
- Three year warranty

Solar Tools Kit with 393 FC Clamp Meter, Irradiance Meter and Solar Test Leads

The Fluke IRR1-SOL Solar Irradiance Meter provides four critical photovoltaic measurements including irradiance, temperature, tilt, and compass orientation required to install, verify, and report on the performance of a photovoltaic systems.

- Measure safely with CAT III 1500 V rated clamp meter
- Thin jaw for access to cables in crowded combiner boxes
- Work efficiently with DC power measurement, audio polarity and visual continuity
- Pomona PVLEAD1 and PVLEAD3 Test Lead Sets are rated to CAT III 1000 V / CAT IV 600 V
- Three year warranty

Specifications: Pomona PVLEAD1 and PVLEAD3 MC4 Solar Clamp Test Lead Set					
	Pomona PVLEAD1		Pomona PVLEAD3		
	MC4 to 4 mm Test Lea	ıd Set	MC4 Solar Clamp Meter Test Lead Set		
Contact	Brass, nickel plated		Brass, nickel plated		
Length	1524 mm		9	14.4 mm, 305 mm	
Voltage	CAT III 1000 V CAT IV 600 V				
Current	20 amp				
Standards	IEC 61010-031				
Specifications: Fluke	FLK-IRR1-SOL Solar Irra	diance Meter	r		
	Irradiance	Inclinati	ion Angle	Temperature Measurement	
Measuring Range	0 to 1400 W/m ²	-90° t	to +90°	-30 °C to 100 °C	
Resolution	1 W/m ²	0	0.1°	0.1 °C	
Measuring Accuracy	± (5 % + 5 Digit)	-85° to -50° ar ±3.5° @ -90° to	o +50°, ±2.5° @ nd +50° to +85°, o -85° and +85° +90°	±1 °C @ -10 °C to 75 °C ±2 °C @ -30 °C to -10 °C and 75 °C to 100 °C	
IP Protection	IP40				
L x W x H	150 mm x 80 mm x 35 mm				
Weight	231 g				



Included Accessories

Solar Tools Kit with 87V MAX Digital Multimeter and Solar Test Leads: TL175 TwistGuard Test Leads, AC175 Alligator Clips, 80BK-A Temperature Probe, Removable Holster with Test Lead Storage, Three AA Batteries (installed), Pomona PVLEAD1 MC4 to 4mm Test Lead Set, User Manual

Solar Tools Kit with 393 FC Clamp Meter and Solar Test Leads: CAT III 1500V Rated Test Leads with Right Angle Plugs with Safety Caps, iFlex 18-inch Flexible Current Probe, TPAK Magnetic Meter Hanger, Premium Carrying Case, Pomona PVLEAD1 MC4 to 4mm Test Lead Set, Pomona PVLEAD3 Solar Clamp Test Lead Set, User Manual

Solar Tools kit with 393 FC Clamp Meter, Irradiance Meter and Solar Test Leads: CAT III 1500V Rated Test Leads with Right Angle Plugs with Safety Caps, iFlex 18 inch Flexible Current Probe, TPAK Magnetic Meter Hanger, Premium Carrying Case, FLK80PR-IRR External Temperature Probe with Suction Cup, C250 Carrying Case with Shoulder Strap, (4) AA Alkaline Batteries (installed), Pomona PVLEAD1 MC4 to 4mm Test Lead Set, Pomona PVLEAD3 Solar Clamp Test Lead Set, User Manual

Ordering Information

FLK-393FC- PVLEAD	Fluke 393 FC Clamp Meter and MC4 Test Leads Bundle
FLK-393-IRR- PVLEAD	Fluke 393 FC Clamp, IRR1 Irradiance Meter, MC4 Test Leads Bundle
FLK-87V MAX-PVLEAD1	Fluke 87V MAX DMM and PVLEAD1 MC4 Test Leads Bundle

Contact your local distributor for price and availability.

FLUKE .

Fluke FEV300 Electric Vehicle Charging Station **Adapter**





Test and troubleshoot the functionality and safety of electric vehicle power supply equipment

The NEW Fluke FEV300 Electric Vehicle Charging Station Test Adapter simulates the presence of an electric vehicle, allowing you to conduct safety and functionality tests in combination with appropriate test instruments such as installation testers (for example the Fluke 1664 FC Installation Multifunction Tester), digital multimeters (such as the Fluke 87V MAX Industrial Multimeter) or oscilloscopes (such as the Fluke 120B Series Industrial ScopeMeter®). With the FEV300 Adapter Kit, charging stations can be tested in accordance with IEC/EN 61851-1 and IEC/HD 60364-7-722.

The Fluke FEV300 is designed for electricians and technicians that install electric vehicle charging stations to verify the station is working properly after installation, during periodic maintenance, or when troubleshooting.

- Suitable for AC charging stations with mode 3 and connector Type 1 and Type 2
- Enables you to test in a safer manner compliant to the required standard. Eg AS3000
- Use the PE Pre-Test safety feature to test the PE conductor for dangerous voltage against earth
- Use the CP control pilot for vehicle simulation and PP Proximity Pilot for cable simulation
- Includes measuring terminals L1, L2, L3, N and PE to connect a test device such as an installation tester to perform safety and functional tests
- IP54 rating for limited dust ingress and water splash protection
- Three year warranty

Specifcations	FEV300
Input voltage	Up to 250 V (single phase system) / up to 480 V (three phase system), 50/60 Hz, max 10 A
EV connector (Type 2)	AC charging mode 3, suitable to IEC 62196-2 type 2 socket outlet or fixed cable with vehicle connector (type 2, 7P three-phase)
EV connector (Type 1)	AC charging mode 3, suitable to IEC 62196-2 type 1 or SAE J1772 with vehicle connector (type 1, 5P single-phase)
Operating temperature	-20°C to 40°C
Storage temperature	-20°C to 50°C
Operating humidity range	10% to 85% relative humidity non-condensing
Storage relative humidity	0% to 85% non-condensing
Dimensions (H \times W \times D)	Approx. 220 mm x 110 mm x 45 mm without cable assembly
Weight	Approx. 2 kg
Safety standards	IEC 61010-1, Pollution Degree 2 IEC 61010-2-030
Measurement category	CAT II 250 V
IP protection class	IP54



Work in the eMobility and EVSE solutions Industry?

Visit us to learn how Fluke tools can help with eMobility and EVSE solutions.



Included Accessories

FLK-FEV300-CON-TY1 Type 1 Connector FLK-FEV300-CON-TY2 Type 2 Connectorl FLK-FEV300/BASIC **Basic Test Adapter**

Ordering Information

FLK-	Test Adapter
FEV300/TY1	w/ Type 1 & 2
& TY2	Connector
FLK-	Test Adapter w/
FEV300/TY2	Type 2 Connector
FLK-	Test Adapter w/
FEV300/Kit	1664 FC

Contact your local distributor for price and availability.

Fluke Connect[™]

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Take advantage of the benefits of Fluke Connect[™] by seamlessly gathering and sharing inspection results instantly. Using the Fluke Connect[™] App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.



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Fluke Connect[™]



SEE IT. SAVE IT. SAVE IT. SHARE IT. All the facts, right in the field.



Get the FREE Fluke Connect[™] App!

By using the Fluke Connect[™] App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.



Troubleshoot faster

Instantly trend and monitor intermittent problems with TrendIt[™] graphs so you can easily identify trends and stop problems before they happen. Seeing is believing – trend data over time and prove your point.



Share from anywhere

Stay on the same page even when you and your team are in different places and on different devices. With the ShareLive^M video call feature, securely connect and collaborate with others, so they can see what you see in real time. Get approvals without leaving the field.

Save Time Reporting

Make better decisions faster than before. Organize your measurements by asset in one location with EquipmentLog[™] history. Measure once, and cut out the paper with AutoRecord[™] measurements.

When your measurements are associated with equipment, there is no need to record in the field and then transcribe into an office computer. Make decisions quicker than before by viewing temperature, mechanical, electrical and vibration measurements from one location.







Fluke Connect[™] Selection Guide

The Fluke Connect[™] App displays readings from up to ten modules on the iPhone and six modules on an Android device. A vast range of Fluke Infrared Cameras display their own measurements plus readings from up to five wireless modules. The 3000 FC Wireless Digital Multimeter displays its own readings plus measurements from up to three wireless modules. The 173X Power Loggers and 174X Power Quality Loggers display their own measurements plus readings from up to two wireless modules.

Fluke Connect™ tools	Fluke Connect [™] App – iOS and Android [™]	TiX580 Infrared Camera	Ti480 PRO Infrared Camera	PTi120/TiSxx Series Infrared Cameras	3000 FC Digital Multimeter	902 FC True-RMS HVAC Clamp Module	378/377/376/375/374/393 FC Clamp Meters	a3000/a3001 FC AC Current Clamp Modules	a3002 FC AC/DC Current Clamp Module	a3003/a3004 FC DC Current Clamp Modules	v3000 FC AC Voltage Module	v3001 FC DC Voltage Module	t3000 FC Temperature Module	1555/1550C Insulation Resistance Testers	1742/1746/1748 Power Quality Loggers	1732/1734/1736/1738 Electrical Loggers	729 FC Automatic Pressure Calibrator	787B/789 ProcessMeter ^{nx}	1587 FC Insulation Multimeter	1664 FC Multifunction Installation Tester	805 FC Vibration Tester	125B/124B/123B ScopeMeters*	279 FC Digital Thermal Multimeter	1630-2 FC Earth Ground Clamp	368/369 FC Leakage Current Clamps
Fluke Connect™ App – iOS and Android	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TiX580 Infrared Camera	•				•	•	•	•	•	•	•	•	•												
Ti480PRO Infrared Camera	•				•	•	•	•	•	•	•	•	•												
PTi120/TiSxx Series Infrared Cameras	•				•	•	•	•	•	•	•	•	•												
3000 FC Digital Multimeter	•	•	•					•	•	•	•	•	•		•	•									
a3000/a3001 FC AC Current Clamp Modules	•	•	•	•	•										•	•									
902 FC True-RMS HVAC Clamp Meter	•	•	•	•	•										•	•									
378/377/376/375/374/393 FC True-RMS Clamp Meters	•	•	•	•	•										•	•									
a3002 FC AC/DC Current Clamp Module	•	•	•	•	•										•	•									
a3003/a3004 FC DC Current Clamp Modules	•	•	•	•	•										•	•									
v3000 FC AC Voltage Module	•	•	•	•	•										•	•									
v3001 FC DC Voltage Module	•	•	•	•	•										•	•									
t3000 FC Temperature Module	•	•	•	•	•										•	•									
1555/1550C Insulation Resistance Testers	•																								
1742/1746/1748 Power Quality Loggers	•				•	•	•	•	•	•	•	•	•												
1732/1734/1736/1738 Electrical Loggers	•				•	•	•	•	•	•	•	•	•												
787B/789 ProcessMeter™	•																								
1587 FC Insulation Multimeter	•																								
1664 FC Installation Tester	•																								
805 FC Vibration Tester	•																								
125B/124B/123B ScopeMeters®	•																								
279 FC Thermal Multimeter	•																								
1630-2 FC Earth Ground Clamp	•																								
368/369 FC Leakage Current Clamps	•																								
ir3000 FC Wireless Connector	•					Con	nect	ada	pter	to: F	luke	787	B, 78	39, 2	89, 2	287,	1550	DC, 1	555						

Recommended Accessories

i410/i1010

(for a3002 FC)

Bundle and Save

Recommended Kits

Fluke Wireless a3000 FC

Fluke Wireless a3001 FC

iFlex™ AC Current Kit

Current Clamp Kit

Fluke a3000 FC, a3001 FC, a3002 FC **Wireless Current Clamp Modules**



Fluke a3000 FC

a3000 FC Wireless AC Current Clamp Module

A true RMS Current Clamp Meter that wirelessly relays measurements to other Fluke Connect[™] enabled master units.

- Measure up to 400 A AC
- · Logging function: record and save up to 65000 readings
- Use as a standalone meter or as part of a system
- Inrush function
- Weight: 0.22 kg (7.76 oz)
- Three-year warranty



a3001 FC Wireless iFlex™ AC Current Module



to other Fluke Connect[™] enabled master-units. It allows you to measure around awkward sized conductors and access wires more easily in tight spaces. • Measure up to 2500 A AC

An iFlex[™] AC Current Module that wirelessly relays measurements

- · Logging function: record and save up to 65000 readings
- Use as a standalone meter or as part of a system
- Inrush function
- Weight: 0.22 kg (7.76 oz)
- Three-year warranty



a3002 FC Wireless AC/DC Current Module



For use with the i410 or i1010 AC/DC current clamps (sold separately). Wirelessly relay measurements from the i410 or i1010 clamp accessory to other Fluke Connect™ enabled master units.

- Measure up to 400 A AC or 400 A DC with i410
- Measure up to 600 A AC or 1000 A DC with i1010
- Use as a meter alone or as part of a system
- Record and save up to 65000 readings



Size (H×W×D)

Save and record

• Weight: 0.25 kg (8.81 oz) • Three-year warranty



16.0 × 6.6 × 3.8 cm

(6.3 × 2.6 × 1.5 in)

Specifications	a3000 FC	a3001 FC	a3002 FC		
Range	0.5 A to 400.0 A AC	0.5 A to 2500 A AC	up to 600 A AC and 1000 A DC (with I1010 Current Clamp)		
Resolution		0.1 A			
Accuracy	400.0 A: 2 % ±5 digits (10 Hz to 100 Hz), 2.5 % ±5 digits (100 Hz to 500 Hz)	3 % ±5 digits (5 Hz to 500 Hz)	AC: 1.0 % + 3 DC: 0.5 % + 3 (45 Hz to 1000 Hz)		
Inrush	Max displayed reading: 999.9 A				
Crest Factor (50Hz/60Hz)	3 at 500 Å, 2.5 at 600 Å, 1.42 at 1000 Å, add 2% for C.F. > 2	3.0 at 1100 A, 2.5 at 1400 A, 1.42 at 2500 A, add 2% for C.F. > 2			
LCD w/backlight	3 ¹ / ₂ digits 3 ¹ / ₂ digits, 6000 cm 4/sec update ra				
Log rate/interval	1 sec minimum/adjustable by PC or FC App				
Battery type/life	2 AA, NEDA 15 A, IEC LR6 / 400 hours				
RF communications	2.4 GHZ ISM Band				
RF communication range	Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 (21 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft).				
Operating & Storage temp	–10° C to 50° C / –40° C	C to 60° C (14° F to 122°	F / -40° F to 140° F)		
Temperature coefficient	Add 0.1 × (specified accur	21 1	1 II		
Operating humidity	0% to 90% (0° C to 35° C (32° F to 95° F)), 0% to 75% (35° C to 40° C (95° F to 104° F)), 0% to 45% (40° C to 50° C (104° F to 122° F))				
EMC		EN 61326-1:2006			
Safety compliance	IEC 61010-1, 600 V CAT IEC 61010-1, 600 V CAT IV/1000 V CAT III III, Pollution Degree 2 Pollution Degree 2				
Safety rating	CAT III 600 V	CAT IV 600 V	, CAT III 1000 V		
Certifications		CC: T68-FBLE IC: 6627	A-FBLE		
Ingress Protection rating	IP30	II	242		
Jaw Opening	64 mm (2.5 in)	25.4 cm (1 in) coil			

16.5 × 6.35 × 1.4 cm

(6.5 × 2.5 × 0.5 in)

Up to 65000 readings

16.5 × 6.35 × 3.56 cm

(6.5 × 2.5 × 1.4 in)



Included Accessories

iFlex[™] i2500 Flexible Current Probe (a3001FC), Magnetic Hanging Strap (a3002FC).

Ordering Information

FLK-A3000 FC	Wireless AC Current Clamp Module
FLK-A3001 FC	Wireless iFlex™ AC Current Module
FLK-A3002 FC	Wireless AC/DC Current Module
FLK-A3000 FC KIT	Wireless AC Current Clamp Kit
FLK-A3001 FC KIT	Wireless iFlex™ AC Current Kit

Contact your local distributor for price and availability.

Fluke a3003 FC and a3004 FC Wireless Current Clamp Modules



a3003 FC Wireless 2000 A DC Current Clamp Module

The a3003 is the tool of choice for high current DC ammeter applications that require measurements up to 2000 A DC.

The extra-wide jaw easily clamps around large conductors, typically found in mining, utility, marine, rail or other heavy manufacturing industries where large DC currents or large current carrying cables are found.

The a3003's unique jaw construction allows for a wide measurement range meaning that you can accurately make measurements from 10 A DC to 2000 A DC.

- Measures from 10 A to 2000 A DC
- Large jaw size (64mm (2.5 in)) for measuring large, high current conductors
- Logging function: record and save up to 65000 readings
- Weight: 0.65 kg (1.43 lb)
- Three-year warranty



a3004 FC Wireless 4-20 mA DC Clamp Module

A fully functional current clamp module, the a3004 tests or troubleshoots 4–20 mA control loops used with drive systems, PLC's, or building energy management systems. Now you can troubleshoot and repair 4–20 mA loops without breaking the loop or bringing down the system and save time.

- Send data to your laptop and go from logging to analysis and diagnosis.
- Use the Fluke Connect[™] wireless USB adapter to collect logged data from remote modules by walking past a working module and downloading logged data
- Logging function: record and save up to 65 000 readings
 Perform for analysis with your PC and share the results using
- Fluke Cloud[™] storage and ShareLive[™] video call
- Weight: 0.3 kg (10.58 oz)
- Three-year warranty

Specifications	a3003 FC	a3004 FC			
Range	1.0 A to 999.9 A DC 1000 A to 2000 A DC	0.05 mA to 20.99 mA DC 21.0 mA to 99.9 mA DC			
Resolution	0.1 A 1 A	0.01 mA 0.1 mA			
Accuracy	$2\% \pm 5$ digits $2.5\% \pm 5$ digits	0.2% ±5 digits 1.0% ±5 digits			
LCD w/backlight	3½	ligits			
Log rate/interval	1 sec minimum/adjusta	ble by PC or front panel			
Battery type	2 AA, NEDA	15A, IEC LR6			
Battery life	120 hours	45 hours			
Memory	Record up to 65000 readings				
RF communications	2.4 GHz ISM Band				
RF communication range	Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 (21 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft				
Operating Temperature	-10° C to 50° C (14° F to 122° F)				
Storage Temperature	-40° C to 60° C (-40° F to 140° F)				
Temperature coefficient	Add 0.1 × (specified accuracy) /° C (< 18° C or > 28° C (<64° F or >82° F				
Operating humidity	90% at 35° C (95° F), 75% at 40°	C (104° F), 45% at 50° C (122° F)			
Altitude	Operating 2000 m (6561 ft),	Storage 12000 m (39,370 ft)			
EMC	IEC 61	326-1			
Safety compliance	IEC 61010-1, CAT IV 600 V, CAT III 1000 V				
Safety rating	CAT IV 600 V, CAT III 1000 V				
Certifications	cCSAus, CE, FCC: T68-	-FBLE IC: 6627A-FBLE			
Ingress Protection rating	IP	42			
Jaw Opening	64 mm (2.5 in)	4.5 mm (0.18 in)			

16.5 × 6.35 × 3.56 cm

 $(6.5 \times 2.5 \times 1.4 \text{ in})$

16.5 × 6.35 × 1.4 cm

 $(6.5 \times 2.5 \times 0.5 \text{ in})$

Included Accessories

2000 A Clamp Attachment (a3003), 4–20 mA Clamp Attachment (a3004), Batteries, Hanging Strap, Ouick Start Guide.

Ordering Information

FLK-A3003FC	Wireless DC Current Clamp Module
FLK-A3004FC	Wireless DC 4-20 mA Current Module

Contact your local distributor for price and availability.



Get the FREE Fluke Connect™ App!

By using the Fluke Connect[™] App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.



Size (H×W×D)

FLUKE ®

Fluke v3000 FC AC and v3001 FC **DC Wireless Voltage Modules**



Fluke v3000 FC

1

v3000 FC Wireless True-RMS AC Voltage Module

A fully functional true-RMS Voltage Module that wirelessly relays AC voltage measurements to other Fluke Connect[™] enabled master units.

- True-RMS AC Voltage Module
- Measure up to 1000 V
- Use as a standalone meter or as part of the system
- Record and save up to 65000 readings
- Weight: 0.22 kg (7.76 oz)
- Three-year warranty

AC Voltage								
Dennel Dennelstern		Accuracy ^{2,3,4}						
Range ¹	Resolution	45 Hz to 500 Hz	500 Hz to 1 kHz					
6.00 V	0.001 V							
60.00 V	0.01 V	1.0% + 3	2.0% + 3					
600.0 V	0.1 V	1.0% + 3						
1000 V	1 V							

 1 All AC voltage ranges are specified from 1% of range to 100% of range. 2 Crest factor of ≤ 3 at full scale up to 500 V, decreasing linearly to crest factor ≤ 1.5 at 1000 V. 3 For nonsinusoidal waveforms, add –(2% of reading + 2% full scale) typical, for crest factor up to 3. 4 Do not exceed 10° V-Hz.



v3001 FC Wireless DC Voltage Module

A fully functional DC Voltage Module that wirelessly relays DC voltage measurements to other Fluke Connect[™] enabled master units.

- Measure up to 1000 V DC
- · Use as a standalone meter or as part of the system
- · Record and save up to 65000 readings
- Weight: 0.26 kg (9.17 oz)
- Three-year warranty

DC Voltage			
Function	Range	Resolution	Accuracy
mV DC	600.0 mV	0.1 mV	0.09% +3
V DC	6.00V	0.001 V	
	60.00 V	0.01 V	0.09% +3
	600.0 V	0.1 V	
	1000 V	1 V	0.15% + 2

Specifications	v3000 FC / v3001 FC
LCD w/backlight	3 ¹ / ₂ digits, 6000 counts, updates 4/sec
Battery type	2 AA, NEDA 15A, IEC LR6
Log rate/Interval	Adjustable by PC from 1 sec to 1 hr, default 1 min
Battery life	400 hours
Memory	Record up to 65000 readings
RF communications	2.4 GHz ISM Band
RF communication range	Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (21 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft)
Operating temperature	-10° C to +50° C (14° F to 122° F)
Storage temperature	-40° C to +60° C (-40° F to 140° F)
Temperature coefficient	0.1 × (specified accuracy)/° C (< 18° C or > 28° C (<64° F or >82° F))
Operating humidity	90% at 35° C (95° F), 75% at 40° C (104° F), 45% at 50° C (122° F)
Altitude	Operating 2000 m (6561 ft), Storage 12000 m (39,370 ft)
EMC	EN 61326-1
Safety compliance	IEC 61010-1, IEC 61010-2-030
Safety rating	CAT IV 600 V, CAT III 1000 V
Certifications	CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE
Ingress Protection (IP) rating	IP42
Pollution Degree	2
Size (H×W×D)	16.5 × 6.35 × 1.4 cm (6.5 × 2.5 × 0.5 in)







Fluke Wireless v3000 FC **AC Voltage Kit**



Fluke Wireless v3001 FC **DC Voltage Kit**



Fluke Wireless v3003 FC AC-DC **Voltage Measurement Kit**

Included Accessories

v3000 FC: TL224 Test Leads, AC285 Alligator Clips, Magnetic Hanging Strap.

v3001 FC: TL222 Test Leads, AC220 Alligator Clips, Magnetic Hanging Strap

Ordering Information

Ordering mit	Jimation
FLK-V3000FC	Wireless AC Voltage Module
FLK-V3001FC	Wireless DC Voltage Module
FLK-V3000 FC KIT	Wireless AC Voltage Kit
FLK-V3001 FC KIT	Wireless DC Voltage Kit
FLK-V3003 FC KIT	Wireless AC-DC Voltage Measurement Kit

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Fluke t3000 FC Wireless K-Type Temperature Module



Fluke t3000 FC



The Fluke t3000 FC Wireless K-Type Temperature Module is one member of a family of wireless test tools that let you share test data using the Fluke Connect[™] app with ShareLive[™] video call.

Fluke Connect™ Wireless Test Tools put tools, not your body, near live electrical panels. It's simple. Connect the t3000 FC wireless temperature module, or any of the other Fluke Connect[™] remote modules, and read the results at a safe distance on the Fluke Connect[™] Wireless Multimeter or a portable PC.

Better still, Fluke Connect™ test tools can send measurement data to your smartphone, so you can save and share measurements from the field with your team anytime, from anywhere.

Using t3000 FC temperature modules, you can:

- Spot temperature differences between three-phases in 1/3 the time of previous methods.
- Send data to your laptop and go from logging to analysis and diagnosis
- Record over time to monitor circuit load changes for an hour, a shift or a week
- Use the Fluke Connect[™] wireless USB adapter to collect logged data from remote modules by walking past a working module and downloading logged data
- · Perform analysis on your PC and share the results using Fluke Cloud[™] storage and ShareLive[™] video call. View data or graphs to get input from team members
- Logging function: record up to 65000 readings
- Three-year warranty

Specifications	t3000 FC
Range	K-type: -200° C to 1000° C (Temperature probe dependent)
Resolution	0.1° C (0.2° C)
Accuracy	$\pm [0.5 \% + 0.3^{\circ} \text{ C} (0.54^{\circ} \text{ F}) \text{ counts}]$
Input terminals	Thermocouple, K-type mini
LCD w/backlight	3 ½ digits
Log rate/interval	1 sec minimum/adjustable by PC and FC app on smart phone
Battery type	2 AA, NEDA 15A, IEC LR6
Battery life	400 hours
Memory	Record up to 65 000 readings
RF communications	2.4 GHz ISM Band
RF communication range	Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (21 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft)
Operating temperature	-10° C to 50° C (14° F to 122° F)
Storage temperature	-40° C to 60° C (-40° F to 140° F)
Temperature coefficient	0.01% of reading +0.03° C per ° C (+0.54° F per °F)
Temperature scale	ITS-90
Operating humidity	90% at 35° C (95° F), 75% at 40° C (104° F), 45% at 50° C (122° F)
Altitude	Operating 2000 m (6561 ft), Storage 12000 m (39,370 ft)
EMC	IEC 61326-1
Safety compliance	IEC 61010-1, 30 V, Pollution Degree 2
Certifications	CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE
Ingress Protection rating	IP42
Size (H×W×D) and Weight	16.5 × 6.35 × 1.4 cm (6.5 × 2.5 × 0.5 in); 0.22 kg (7.76 oz)



Included Accessories

80PK-1 K-Type Bead Thermocouple Magnetic Hanging Strap.

Ordering Information

FLK-T3000FC	Wireless K-Type Temperature Module
FLK-T3000 FC	Wireless FC
KIT	Temperature Kit

Contact your local distributor for price and availability.



Fluke Connect[™] Accessories





FLLIKE #2000 FC CONNECTOR

Fluke Connect™ ir3000FC Connector



Fluke Connect™ ir3000 FC Connector

Connect your Fluke test tool with the ir3000 FC Connector and get all the benefits of the Fluke Connect[™] mobile app. If you already have a Fluke 287/289 Digital Multimeter or Fluke 789 Process Tool or are considering purchasing one, add the ir3000 FC Connector so those tools can communicate with the Fluke Connect[™] app.

- Fluke Connect[™] ir3000 FC Connector allows you to wirelessly transfer data from Fluke 287, 289 Digital Multimeters, Fluke 789 ProcessMeters[™] and Fluke 1550C/1555 Insulation Resistance Testers to your smart phone
- Fits over the IR port of the Fluke tools listed above
- Immediately enables you to graph, save, and share the tool's readings with your team from your smart phone
- Identify and diagnose problems quickly and confidently
 Efficiently and acfaly continue real time readings of the
- Efficiently and safely capture real-time readings of the primary display from the field
- Share results instantly with your team
- Upgradeable by USB
- Three-year warranty

Supported Fluke Tools:

- DMMs: 287, 289
- Process Tool: 789, 787B
- Insulation: 1550C, 1555

Supported Smart Phones:

- Android 5.0 & above
- iOS 13 & above



Specifications	ir3000 FC
Battery type	Two AAA Alkaline batteries, NEDA 24A, IEC LRO3
Battery life	6 hours of continuous transmission
RF communications	2.4 GHz ISM Band
RF communication range	Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (21 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft)
Temperature	Operating: -10° C to 50° C (14° F to 122° F) Storage: -20° C to 60° C (-4° F to 140° F)
Certifications	CE, FCC: T68-IRFBLE , IC: 6627A-IRFBLE
Size (H×W×L)	3.2 × 7.6 × 6.4 cm (1.25 × 3 × 2.5 in)
Compatibility*	Fluke 287, 289, 789, 1550C, 1555

* At time of catalog print, Fluke's ir3000 FC Connector is currently compatible with the tools listed above. For updates on Fluke Connect™ test tool compatibility, go to **connect.fluke.com**



Get the FREE Fluke Connect[™] App!

By using the Fluke Connect[™] App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.



Google Play

Ordering Information

FLUKE-IR3000 FC

Fluke Connect™ c ir3000 Connector

FLK-FC-SD CARD Fluke Connect™ Wireless SD Card

Contact your local distributor for price and availability.

Fluke Premium Care

Coverage that prevents unexpected downtime caused by damaged test equipment, accessories, or tools in need of calibration or repair.





Accidental damage and repair

Avoid costly repairs and rest easy knowing that any damage to your test tool is covered



Replacement of damaged accessories

Replace damaged accessories that could be affecting the accuracy of your test results at no extra cost



Annual tool inspection and calibration

Ensure your test tool is providing accurate results and adheres to regulatory compliance by leaving it in the hands of our experts



Expedited calibration and repair

Skip the wait – your calibration or repair will be expedited so you can get back to your tool and work faster

	Standard warranty	Premium Care
Repair manufacturing defects	•	٠
Annual calibration or performance test		٠
Accidental damage and repair of main unit		٠
Expedited calibration and repair		٠
Expedited freight		٠
Replacement or repair of damaged accessories		٠
Priority Tech support		•



Contact your local Fluke dealer representative to obtain a quote for your specific products.

	Product covered	Potential cost without Premium Care*	Cost with Premium Care 1-year Standard plan
	ii910 Precision Acoustic Imager	€3103	€2388
N.	ii900 Industrial Acoustic Imager	€2782	€2040
	1770 Series Power Quality Analyzers	€2305	€864
	1730 Series Power Quality Loggers	€2602	€372
	MDA Series Motor Drive Analyzers	€2158	€720
	190 Series ScopeMeter™ Portable Oscilloscope	€2209	€636
	SMFT-1000/PRO Multifunction PV Tester and Performance Analy- zer, I-V Curve Tracer	€2230	€550
	Fluke-754 Documenting Process Calibrator	€3083	€888
	Fluke-726 Precision Multifunction Calibrator	€2050	€360
	Fluke-725 Multifunction Process Calibrator	€2109	€360
*Costs are ann	coximated as price varies depending on r	model accessory shipping loc	ation atc

*Costs are approximated as price varies depending on model, accessory, shipping location, etc.

In case of Fluke Premium Care 3-year, the cost savings will be even higher; approx. 10%.

Fluke Premium Care support plans

Tailored to your needs, Fluke Premium Care is flexible and available in one-year and three-year plan options.

Scan this QR Code for more information about Fluke Premium Care and to view the full range.



FLUKE ®

Digital Multimeters

Fluke Digital Multimeters (DMMs) are on more tool belts, finding more problems, than any other comparable test tools. Each industrial meter is tested to the extreme: drop, shock, humidity, you name it. Every Fluke Digital Multimeter gives you what you need: accurate measurements; consistent, reliable performance; attention to safety; and the strongest warranty available.

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VoltAler

PHILLIPS U.S.

Digital Multimeter Selection Guide

							Industria	Industrial Maintenance and	ce and						Automotive						
		Advanced Meters	d Meters		Wireless Meters	Meters	Field	Field Service Meters	ers	-					Meters	Insulation	Testers		Specialty Meters	y Meters	
Models Basic features	87 N	87 V MAX	187	589	233	3000 FC	175	177	179	113	114	115	116 HVAC	117	887	1577 1587 FC	1587 FC	П 1.2	28 II 28 IEX	2811EX	279 FC
Counts	20000	20000	50000	50000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	20000	6000	6000	6000	20000	20000	6000
True-RMS readings	AC	AC	AC+DC	AC+DC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC		AC	AC	AC
Basic DC accuracy	0.05 %	0.05 %	0.02 %	0.02 %	0.25 %	0.09 %	0.15 %	0.09 %	% 60.0	0.5 %	0.5 %	0.5 %	0.5%	0.5 %	0.1 %	0.2 %	% 60.0	0.1 %	0.05 %	0.05 %	% 60.0
AC bandwidth	20 kHz	20 kHz	100 kHz	100 kHz	1 kHz	1 kHz	1 kHz	1 kHz	1 kHz	1 kHz	1 kHz	1 kHz	1 kHz	1 kHz	5 kHz	60 Hz	5 kHz	30 kHz	20 kHz	20kHz	500 Hz
Auto/manual ranging	•/•	*	•	•/•	.	•/•	•/•	•/•	*	•/•	•	•	•	•/•	•/•			•/•	•/•	•/•	•/•
Class 1 Zone 1 AEX 1a IIC T4 Class 1 Division 1, Groups ABCD											-									•	
Measurements Voltage AC/DC	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	600 V	600 V	600 V	600 V	600 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Current AC/DC	10 A	10 A	10 A	10 A	10 A	400 mA	10 A	10 A	10 A			10 A	600 µ.A	10 A	10 A	400 mA	400 mA	10 A	10 A	10 A	2500 A AC
Resistance	50 M.Ω	50 M.O	500 MΩ	500 MΩ	40 MΩ	50 MΩ	50 M.0	50 MΩ	50 M.0	60 kΩ	40 MΩ	40 MΩ	40 MΩ	40 MΩ	50 M.0	50 MΩ	50 MU	50 M.0	50 M.0	50 MΩ	50 MΩ
Frequency	200 kHz	200 kHz	1 MHz	1 MHz	50 kHz	-	100 kHz	100 kHz	100 kHz		-	100 kHz	100 kHz	100 kHz	200 kHz		100 kHz	200 kHz	200 kHz	200 kHz	100 kHz
Capacitance	9999 μF	9999 µF	1 pF to 100 mF	1 pF to 100 mF	9999 µF	-	9999 µF	9999 µF	9999 µF	9999 µF		9999 µF	9999 µF	9999 µF	9999 μF		9999 μF	9999 µF	9999 µF	9999 µF	9999 μF
Temperature	1090° C (1994° F)	1090° C (1994° F)	+1350° C (+2462° F)	1350° C (2462° F)	400° C (752° F)				400° C (752° F)				400° C (752° F)				500° C (932° F)		+1090° C (+1994° F)	1090° C (1994° F)	
dB			60 dB	60 dB															_		
Conductance	$50 \mathrm{nS}$	60 nS	$50 \mathrm{nS}$	50 nS											60 nS			60 nS	60 nS	60 nS	
Duty cycle/pulse width	-/•	-/•	•/•	•/•											•/•			-/•	-/•	-/•	
Continuity/diode test	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Motor Drive (ASD) Measurements				•												1	•				
VoltAlert™, non-contact voltage detection														•							
VCHEKTM										•											
LoZ: low input impedance				•							•		•	•							
Microamps				•				I		Ī				1						•	
Number of inculation toot							Ī		Ī							•	•			I	
ranges											_					2	5				
Display																					
Removable wireless display			•		•	•	Ī	Ī													
Dual display														I		I	I	I	I	I	
Analog bargraph	•		•				•			•				•		Γ		•	•	•	
Backlight	Two level	Two level	Two level	Two level	•	•		•	•		•				•	•		Two level	Two level	Two level	
Graphical trend display																		-			
Diagnostics and data																					
Min/Max recording with time stamp	-/•	-/•	•/•	•/•	-/•	-/•	-/•	-/•	-/•	-/•	-/•	-/•	-/•	-/•	-/•		-/•	-/•	-/•	-/•	-/•
Fast Min/Max	250 µs	250 μs	250 μs	250 µs											250 µs				250 μs	250 µs	
Display Hold/Auto (Touch) Hold	•/•	•/•	•/•	•/•	•/•	•/•	•/•	•/•	.	-/•	-/•	-/•	-/•	-/•	•/•		••	•/•	•/•	•/•	•/•
Relative reference	•	•	•	•		Annual Annual	I	I		Ī	Ī		I	1		1	I	•	•	•	1
Trand Canture						(with app)			Ī							ľ			ľ	ľ	(with app)
Readings memories			10000	10000		(with app)										I			I		(with app)
USB interface			•	•		1.J.J								Γ		Γ			Γ	Γ	1.J.J
Other features																					
Automotic cock			•	•						•											
DC volts										•	•		•	•							
Closed case calibration	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Separate battery/tuse access	-/•	*	•	:	•	•	•	•/•	•	•	•	•	•		•	•	•	•	••	-/•	•
	-120°C, 55°C (-4°F, 131°F)	-120° C, 55° C -40° C, 55° C (-4° F, 131° F) (-40° F, 131° F)	-20° C, 55° C (-4° F, 131° F)	55° C 31° F)				- 1)	-10° C, 50° C (14° F, 122° F)	4° F, 122° F)								-40° C, 55° C (-40° F, 131° F)	55° C 131° F)	-15° C, 50° C (5° F, 122° F)	50° C 22° F)
Warranty and electrical safety																					
Input alert	•	•		•											•	1	1	•	•	•	
IP Rating Safety rating (IEC 61010) CAT III	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	IP42	1P42 600 V	IP42 600 V	600 V	600 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Safety rating (IEC 61010) CAT IV	600 V	600 V	600 V	600 V	600 V	600 V	600 V	600 V		600 V					600 V			600 V	600 V	600 V	600 V

Digital Multimeters

Fluke 279 FC True-RMS Thermal Multimeter



Fluke 279 FC



Find. Repair. Validate. Report.

The industry first Fluke 279 FC is a full-featured digital multimeter with integrated thermal imaging and is designed to increase your productivity and confidence. The thermal multimeter helps you find, repair, validate, and report many electrical issues quickly so that you are confident problems are solved.

- Full-featured multimeter with built-in thermal imager
- 15 measurement functions including: AC voltage with lowpass filter, DC voltage, Resistance, Continuity, Capacitance, Diode test, Min/Max/Avg, AC current (with iFlex[™]), Frequency
- Thermal imaging reveals many electrical issues quickly and safely, eliminating the need for time-consuming testing and validation
- Two-in-one tool is designed to increase productivity—no need to go back to the truck or office to retrieve a shared camera or wait for the thermographer. Do more in less time
- iFlex[™] expands your measurement capabilities get into tight, hard to reach spaces for current measurement (up to 2500 A AC)
- Save measurements and images while communicating wirelessly with a smart phone up to 6.1 meters away (no obstructions)
- Rechargeable lithium ion battery allows for a full work day (10+ hours) under normal conditions
- Image resolution: 80 × 60
 - 8.89 cm (3.5 in) color LCD screen
 - CAT III 1000 V, CAT IV 600 V measurement category
 - Three-year warranty

DMM	
Basic DC accuracy	0.09%
Bandwidth	1% 45 Hz to 65 Hz, full time low pass filter
Voltage	AC/DC 1000 V
Current AC	iFlex [™] Flexible Current Probe (included with the 279 FC/iFlex [™])
Resistance	50 ΜΩ
Frequency	100 kHz
Capacitance	9999 µF
Continuity with beeper	Yes
Diode test	Yes
Min/Max recording	Yes
Display Hold	Yes
Infrared Camera	
Infrared resolution	80 × 60
Image capture frequency	8 Hz
Field of View	36° (w) × 27° (h)
NETD	≤200 mK
Infrared spectral band	7.5 to 14 microns
Center point	Yes (with center point temp)
Focus mechanism	Fixed focus
Temperature Range	-10° C to 200° C (14° F to 392° F) Accuracy: ±5° C (±9° F) or (±5% as tested)
Emissivity	0.95 fixed
Background compensation	20° C fixed
Memory storage	Approximately 100 images (internal)
File format	Non-radiometric .is2
Other	
Battery type	Rechargeable lithium-ion battery (charge time: 4.5 hours)
Operating temperature	-10° C to 50° C (14° F to 122° F)
Storage temperature	-20°C to 60°C (-4° F to 140° F)
Relative humidity	0% to 90% (0 °C to 35 °C) (32 °F to 95 °F) 0% to 75% (35 °C to 40 °C) (95 °F to 104 °F) 0% to 45% (40 °C to 50 °C) (104 °F to 122 °F)
Altitude	2 000 meters (6,561 feet)
Temperature coefficient	Add 0.1 × specified accuracy for each° C above 28° C (82° F) or below 18° C (64° F)
Ingress Protection	IEC 60529: IP40
Certifications	CE, CSA, FCC ID: T68-FBLE
Safety compliance	IEC 61010-1: Pollution degree 2; IEC 61010-2-033: CAT III 1000 V/CAT IV 600 V
EMC	IEC 61326-1
Size	215.9 x 93.9 x 57.1 mm (8.5 x 3.7 x 2.25 in)
Weight	0.793 kg (1.75 lb)
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Included Accessories

TL75 Test Leads, Rechargeable Lithiumion Battery, Charger, 18-inch (45.72 cm) iFlex[™] Flexible Current Probe, Hanging Strap, Soft Carrying Case.

279 FC I/B also includes: Additional Lithium-ion Battery.

Ordering Information

279

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FC/iFlex	TRMS Thermal Multimeter with iFlex™
ke 279FC I/B	TRMS Thermal Multimeter with iFlex™ and Extra

Battery Kit

Contact your local distributor for price and availability.



Fluke 3000 FC Wireless Digital Multimeter



Fluke 3000 FC



See it. Save it. Share it.

The Fluke 3000 FC True-RMS Wireless Multimeter and Fluke Connect™ wireless test tools put tools, not your body, near live electrical panels. It's simple. Just de-energize the cabinet, open the panel while wearing PPE and connect the remote modules, whether they are voltage modules, current clamps, flexible current loops or thermometers. Then read the results on the 3000 FC Wireless Multimeter from a safe distance. You can display the meter measurement, plus readings from up to three wireless modules, while reducing the risk of arc flash by separating yourself from hazardous measurement situations.

Better still, the Fluke 3000 FC Series Wireless Multimeter can send measurement data to your smartphone, so you can save and share measurements from the field with your team anytime, from anywhere.

Other capabilities of Fluke Connect[™] and the 3000 FC Multimeter:

- · Connect to your PC with USB dongle (optional) for detailed analysis and diagnosis
- · Perform analysis with your smart phone and the FC App and share the results using Fluke Cloud[™] storage and ShareLive[™] video call. View data or graphs to get input from team members

The Fluke 3000 FC Series Wireless Multimeter with the Fluke Connect[™] app has all the essentials for convenient test and measurement troubleshooting.

- AC and DC voltage measurements to 1000 V
- AC and DC current with 0.01 mA resolution
- · Continuity, resistance, diode test, capacitance and frequency measurements
- MIN/MAX Recording
- CAT III 1000 V, CAT IV 600 V; IP54
- Three-year warranty

Functions	Range	Basic Accuracy
AC voltage	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	1.0% + 3
DC voltage	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	0.09% + 2
Continuity	600 Ω	Meter beeps at < 25 Ω , beeper detects opens or shorts of 250 μ s or longer
Resistance	600 Ω, 600.0 Ω, 6.00 kΩ, 60.00 kΩ, 600.0 kΩ, 50.00 MΩ	0.5% + 1
Diode test	2.00 V	1% + 2
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF ¹	1.2% + 2
mA AC (45 Hz to 1 kHz) ²	60.00 mA, 400.0 mA ³	1.5% + 3
mA DC ²	60.00 mA, 400.0 mA ³	0.5% + 3
Frequency	99.99 Hz, 999.9 Hz, 9.99 kHz, 99.99 kHz	0.1% + 1

¹ In the 9999 μ F range for measurements to 1000 μ F, the measurement accuracy is 1.2% + 2.

² Input burden voltage (typical): 400 mA input 2 mV/mA ³ 400.0 mA accuracy specified up to 600 mA overload.

For all specifications: accuracy is specified for one year after calibration, at operating temperatures of 18° C to 28° C, with relative humidity at 0% to 90%. Accuracy specifications take the form of ±([% of Reading] + [Number of least significant digits]).



TL238 SureGrip™ Test Lead Set

C37XT EVA Foam Hard Case

Recommended Kits Bundle & Save

Fluke 3000 FC General **Maintenance System** Fluke 3000 FC Industrial System

Fluke 3000 FC HVAC System Fluke 3000 FC/1AC-II **Wireless Multimeter and Non-Contact Voltage**

Detector Kit

Fluke 3000 FC/EDA2 Wireless **Multimeter and Deluxe Accessories Combo Kit**

Fluke 3000 FC/TPAK Wireless **Multimeter and Magnetic Hanger Combo Kit**

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Manual Information Pack.

Ordering Information

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FLK-3000 FC	FC Wireless Digital Multimeter
FLK-3000 FC GM	Wireless General Maintenance Kit
FLK-3000 FC IND	Wireless Industrial System Kit
FLK-3000 FC HVAC	Wireless HVAC System Kit
FLK-3000 FC/1AC-II	Wireless Multimeter & Non- Contact Voltage Detector Combo Kit
FLK-3000 FC/EDA2	Wireless Multimeter Deluxe Accessories Combo Kit
FLK-3000 FC/TPAK	Wireless Multimeter & Magnetic Hanger Combo Kit

Contact your local distributor for price and availability.

Fluke 280 Series True-RMS Logging Multimeters





Find little problems before they become big

The Fluke 287/FC and 289/FC are the next generation in high performance industrial logging multimeters.

These high performance industrial logging multimeters are designed to solve complex problems faster in many applications. Log data and review it graphically on-screen to help minimize downtime.

Communicate wirelessly with your smart phone directly from the field with the Fluke Connect™ app and get quick answers or next step authorizations faster than ever before. It's as simple as adding the Fluke ir3000 FC Connector to the standard Fluke 287 and 289 (connector sold separately).

- Large 50000 count, 1/4 VGA dot matrix display with white backlight
- · Logging function with expanded memory for unattended monitoring of signals over time. Using on-board TrendCapture, users can graphically review logged readings without needing a PC. Store up to 10000 recorded events
- Save, name, and recall multiple logging sessions before PC download is necessary
- Field upgradeable and expandable meter lets you stay current as new capabilities are added.
- Two terminal 50 ohm range with 1 milliohm resolution, . 10 mA source current. Useful for measuring and comparing differences in motor winding resistance or contact resistance (289/FC)
- Low-pass filter for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (289/FC)
- · Limited lifetime manufacturer's warranty

Features	287	289
Multiple on screen displays	•	•
True-RMS AC bandwidth	100 kHz	100 kHz
dBV/dBm	•	•
DC mV resolution	1 μV	1 μV
Megohm range up to	500 MΩ	500 MΩ
Conductance	50.00 nS	50.00 nS
Continuity beeper	•	•
Elapse time clock/time of day clock	•	•
Min/Max/Avg/duty cycle/pulse width	•	•
Isolated optical DMM interface with USB PC connection	•	•
Auto/touch hold	•	•
Over 200 hours logging capacity with new power saving function	•	•
Lo Ohm capability	-	•
LoZ volts	-	•
Lo Pass Filter	-	•

Functions	Range	Basic Accuracy
AC volts or DC volts	50.00 mV, 500.00 mV, 5.00 V, 50.00 V, 500.00 V, 1000.0 V	0.02% 0.4% (True-RMS) (AC)
AC current DC current	500.00 μΑ, 5000.0 μΑ, 50.00 mA, 400.00 mA, 5.00 A, 10.00 A	0.15% 0.7% (True-RMS)
Temperature (excluding probe)	-200.0° C to 1350.0° C (-328° F to 2462° F)	1.0%
Resistance	50.00 Ω, 500.00 Ω, 5.00 kΩ, 50.00 kΩ, 500.00 kΩ, 5.00 MΩ, 50.00 MΩ, 500.0 MΩ	0.05%
Capacitance	1.00 nF,10.00 nF, 100.0 nF, 1.00 μF, 10.00 μF, 100.0 μF, 1000 μF, 1000 μF, 1000 mF, 100 mF	1.0%
Frequency	99.99 Hz, 999.99 Hz, 9.99 kHz, 99.99 kHz, 999.99 kHz	0.005%





11 TLK287 Electronic Test Lead Set



FlukeView[™] Forms Software with Cable

i410

C280 Soft Case



ir3000 FC Fluke Connect™ ir3000 AC/DC Current Clamp Connector

Recommended Kits Bundle & Save

Fluke 287 FlukeView[™] Forms Combo Kit

Fluke 287 FlukeView™ Forms **Combo Kit with ir3000FC** Connector

Fluke 289 FlukeView™ Forms **Combo Kit**

Fluke 289 FlukeView[™] Forms **Combo Kit with ir3000FC** Connector

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Probe Holder, Six AA Batteries (installed), Calibration Certificate Sheet.

Ordering Information

True-RMS Industrial Logging Multimeter with TrendCapture
True-RMS Electronics Logging Multimeter with TrendCapture
FlukeView™ Forms Combo Kit
FlukeView™ Forms Combo Kit
Industrial Logging Multimeter and Software Combo Kit
Industrial Logging Multimeter and Software Combo Kit
Fluke Connect™ ir3000 Connector

Contact your local distributor for price and availability.



Fluke 83V, 87V & 87V MAX Digital Multimeters









Performance and accuracy for maximum industrial productivity

Fluke 80-V Series is equipped with improved measurement functions, troubleshooting features, resolution and accuracy to solve more problems on motor drives, in-plant automation, power distribution, and electro-mechanical equipment.

The Fluke 87V and new 87V Max offer a unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment. A built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument.

Electrical safety

All inputs are protected to CAT III 1000 V and CAT IV 600 V. They can withstand impulses in excess of 8000 V to help protect you from arc blast resulting from surges and spikes. Limited lifetime manufacturer's warranty.





Fluke 83V

Features	83V	87V	87V MAX
True-RMS AC voltage and current for accurate measurements on non-linear signals	-	•	•
Selectable filter for accurate voltage and frequency measurements on motor drives	-	•	•
6000 counts, 3-3/4 digits	•	•	•
4-1/2 digit mode for precise measurements (20000 counts)	-	٠	•
Measure up to 10 A, 20 A for up to 30 seconds	•	•	•
Built in thermometer lets you carry one less tool (TC probe included)	-	•	•
Frequency to 200 kHz and % duty cycle	•	•	•
Resistance, continuity and diode test	•	•	•
10000 μF capacitance range for components and motor caps	•	•	•
Min/Max/Average recording with Min/Max Alert to capture variations automatically	•	•	•
Battery Life with Backlight off	400 1	hours	800 hours

Functions Denne			Basic Accuracy			
Functions	Range	83V	87V 87 MAX			
DC volts	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	0.1%	0.05%			
AC volts	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	0.5%	0.7% (True-RMS)			
DC current	600.0 μΑ, 6000 μΑ, 60.00 mA, 600.0 mA, 6.00 A, 10.00 A	0.4%	0.2%			
AC current	600.0 μΑ, 6000 μΑ, 60.00 mA, 600.0 mA, 6.00 A, 10.00 A	1.2%	1.0% (True-RMS)			
Temperature (excl. probe)	-200° C to 1090° C (-328° F to 1994° F)	_	1.0%			
Temperature Probe	-40° C to 260° C (-40° F to 500° F)	_	2.2° C (35.96° F) or 2%			
Resistance	600.0 Ω, 6.00 kΩ, 60.00 kΩ, 600.0 kΩ, 6.00 MΩ, 50.00 MΩ	0.4%	0.2%			
Capacitance	10.00 nF, 100.0 nF, 1.00 μF, 10.00 μF, 100.0 μF, 9999 μF	1.0%	1.0%			
Frequency	199.99 Hz, 1.99 kHz, 19.99 kHz, 199.99 kHz	0.005%	0.005%			

Recommended Accessories



TPAK Magnetic Meter Hanger





TL175 TwistGuard™ Test Leads





i400 SureGrip™ Alligator Clips AC Current Clamp



C37XT EVA Foam Hard Case

AC285

CXT80 Extreme Case

Recommended Kits Bundle & Save



Fluke 87V/E2 Industrial **Electrician's Combo Kit**

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Yellow Holster (H8OM excl. TPAK), 80BK-A Temperature Probe (87V/MAX only), 9 V Battery Installed (83V and 87V Only), Three AA Batteries Installed (87V MAX only), User Manual and **Technical Notes.**

Ordering Information

FLUKE-83V Industrial Multimeter FLUKE-87V True RMS Industrial **Multimeter** FLUKE-Industrial Electrician 87V/E2 Combo Kit FLUKE-MAX True RMS 87V-MAX Industrial Multimeter FLUKE-**Industrial Multimeter** 87V/IMSK Service Kit

Digital Multimeters

Fluke 88V Automotive Multimeter



Fluke 88V



The right meter for automotive diagnostics

The Fluke 88V Automotive Multimeter is the most powerful automotive multimeter ever offered by Fluke. In addition to having all standard multimeter features like the ability to measure voltage, current, continuity, and resistance, the 88V can perform diode test and pulse width measurements.

This meter can take current measurements up to 20 A for 30 seconds and 10 A continuously. The optional magnetic hanger lets you attach the meter to most steel surfaces for easy set-up and viewing. The 88V is designed to be used in high energy environments like those found on hybrid vehicles.

- 0.1% DC accuracy
- 4-1/2 digit mode for precise measurements (20000 counts)
- Measure up to 1000 V AC and DC
- Current measurements up to 10 A, 20 A for up to 30 seconds
- Built-in thermometer for temperature measurements when you need them (temperature probe included)
- Resistance, continuity and diode test
- RPM measurements with inductive pickup (included)
- Millisecond pulse width measurements for fuel injectors
 Magnetic hanger to attach meter to the vehicle and free your hands for other tasks
- Min/Max/Average recording with Min/Max Alert to capture variations automatically
- Peak Min/Max to record transients as fast as 250 µs
- Relative mode to remove test lead resistance from low ohms measurements
- Auto and manual ranging for maximum flexibility
- Autohold $\ensuremath{^{\text{M}}}$ to capture stable readings with only one touch of the leads
- Large display digits and two-level bright white backlight for increased visibility
- Analogue bar-graph to track changing or unstable signals
 Input Alert provides audible warning against wrong use of input jacks
- · Limited lifetime manufacturer's warranty

Specifications	88V	Fluke 8 Multim
DC volts	Maximum Voltage: 1000 V Accuracy: ±(0.1% + 1) Best Resolution: 0.01 mV	Multim
AC volts	Maximum Voltage: 1000 V Accuracy: ±(0.5% + 2) AC Bandwidth: 5 kHz Best Resolution: 0.01 mV	
DC Current	Maximum Amps: 10 A Amps Accuracy: ±(0.4% + 2) Best Resolution: 0.001 mA	
AC Current	Maximum Amps: 10 A Amps Accuracy: ±(1.2% + 2) Best Resolution: 0.001 mA	
Resistance	Maximum Resistance: 50 M Ω Accuracy: \pm (0.4% + 1) Best Resolution: 0.1 Ω	
Capacitance	Maximum Capacitance: 9999 μF Accuracy: ±(1% + 2) Best Resolution: 0.01 nF	Includ
Frequency	Maximum Frequency: 200 KHz Accuracy: ±(0.005% + 1) Best Resolution: 0.01 Hz	High-in Manual
Duty Cycle	Maximum Duty Cycle: 99.9% Accuracy: within 2% per KHz + 0.1% Best Resolution: 0.1%	Orderi FLUKE-
Temperature Measurement	-200.0° C to 1090° C (-328° F to 1994° F), 1.0% excluding probe	
80BK Temperature Probe	-40° C to 260° C, 2.2° C (-40° F to 500° F) or 2% whichever is greater	FLUKE- A KIT
Conductance	Maximum Conductance: 60.00 nS Accuracy: ±(1.0% + 10) Maximum Resolution: 0.01 nS	
Operating Range	Operating Temperature: -20° C to 55° C (-4° F to 131° F) Storage Temperature: -40° C to 60° C (-40° F to 140° F)	Contact y price and
Size and Weight	5.2 cm × 9.8 cm × 20.1 cm, 624 g	



Included Acces High-impact Holst Manual and Quick	er, Test Leads, User
Ordering Inform	
FLUKE-88-5	Automotive Multimeter
FLUKE-88-5/ A KIT	Automotive Multimeter Combo Kit

Contact your local distributor for price and availability.

FLUKE .

Fluke 170 Series Digital Multimeters

Troubleshooting tools for electrical and electronic systems



Fluke 179



- Fluke 170 Series digital multimeters are the preferred solutions for professional technicians around the world. They include the features you need to troubleshoot and repair electrical and electronic systems, combined with Fluke's unparalleled reputation for ruggedness, reliability and accuracy.
- True RMS voltage and current measurements
- 0.09% basic accuracy (177, 179)
- 6000 count resolution
- · Digital display with analog bargraph and backlight (177, 179)
- Manual and automatic ranging
- Display Hold and Auto Hold
- · Frequency and capacitance measurements
- Resistance, continuity and diode
 - measurements
- Temperature measurements (179)
- Min/max/average recording
- Smoothing mode allows filtering of rapidly changing inputs
- Easy battery exchange without opening the ٠ case
- Closed case calibration through front panel
- Ergonomic case with integrated protective holster
- IEC 61010-2-033 CAT III 1000V / CAT IV 600V
- Battery life: 200 hours typical for alkaline.
- Size: (H×W×L): 4.3 × 9.0 × 18.5 cm (1.69 × 3.54 × 7.28 in)
- · Limited lifetime manufacturer's warranty

Electrical safety

All inputs are protected to measurement CAT III 1000 V and CAT IV 600 V. These meters can withstand transient impulses in excess of 8000 V to help protect you from arc blasts resulting from surges and spikes.

Features	179	177	175
Max voltage AC/DC	1000	1000	1000
True-RMS	•	•	•
Temperature	•	-	-
Basic DC accuracy	0.09%	0.09%	0.15%
Backlight	•	•	-
Min/Max/Avg	•	•	•
Compatible with ToolPak™ meter hanging kit with magnet	•	•	•
Limited lifetime warranty	•	•	•

Functions	Range	Best accuracy
DC voltage	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	±0.09% (177 and 179) ±0.15% (175)
AC voltage ¹	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	±1.0% of reading
DC current	60.00 mA, 400.0 mA, 6.00 A, 10.00 A ²	±1.0% of reading
AC current ²	60.00 mA, 400.0 mA, 6.00 A, 10.00 A ²	±1.5% of reading
Resistance	600.0 Ω, 6.00 kΩ, 60.00 kΩ, 600.0 kΩ, 6.00 MΩ, 50.00 MΩ	±0.9% of reading
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF	±1.2% of reading
Frequency ³	99.99 Hz, 999.9 Hz, 9.99 kHz, 99.99 kHz	±0.1% of reading
Temperature (Model 179)	-40°C to 400°C (-4° F to 752° F)	1.0% of reading

¹ All AC voltage and AC current ranges are specified from 5% of range to 100% of range.

² 10 A continuous, 20 A for up to 30 seconds.

³ Voltage frequency is specified from 2 Hz to 100 kHz. Current frequency is specified from 2 Hz to 30 kHz.





TP220

TL81A Deluxe Electronic Test Lead Set

i410

AC/DC Current Clamp





Recommended Kits Bundle & Save



Fluke 179/EDA2 Industrial **Digital Multimeter Combo Kit**

Included Accessories

Test Leads with 4 mm Lantern Tips, 9V Battery (installed) and User Manual, 80BK Temperature Probe (179 only).

Ordering Information

FLUKE-175 True RMS Digital **Multimeter**

FLUKE-177 True RMS Digital Multimeter

FLUKE-179 True RMS Digital Multimeter

FLUKE-Electronics Combo 179/EDA2 Kit

FLUKE-**Industrial Multimeter** 179/IMSK Service Kit

Fluke 233 Remote Display Digital Multimeter





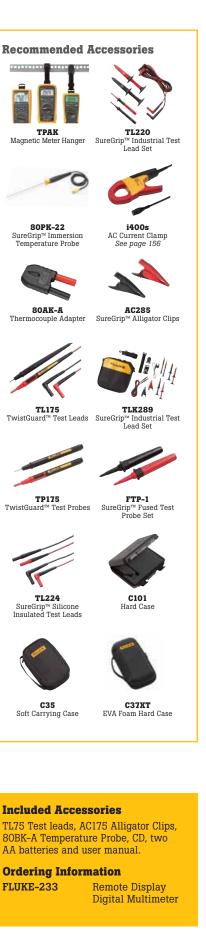
Fluke 233

The Fluke 233 True-rms Remote Display Digital Multimeter allows you to be in two places at once. The removable display solves several problems. First, you no longer have to hold both the meter and the test leads to make a measurement. It also allows you to measure where the measurement point is separated from controls or where the operator can't stay close to the meter during measurements due to various hazards or moving machinery.

- Wireless technology allows the display to be carried up to 9.1 m (29.8 ft) away from the point of measurement for added flexibility
- The removable magnetic display can be conveniently mounted where it is easily seen
- Low-power 802.15.4 wireless technology does not interfere with measurement accuracy
- Use as a conventional multimeter when the display is connected
- True-RMS AC voltage and current
- Built-in thermometer
- Auto power off maximizes battery life (400 hours)
- Radio transmitter automatically turns off when the display is connected to the meter
- Record signal fluctuations using the Min/Max function
- Three-year warranty

Features	233
Removable magnetic display	•
True-RMS measurement	•
Digital display counts	6000
Display backlight	•
Built in thermometer	•
Resistance, continuity and diode test	•
Min/Max/Average recording	•
Auto power off maximizes battery life	•
Radio transmitter automatically turns off when the display is connected to the meter	•
Use as conventional multimeter when the display is connected	•
Safety rating	CAT IV 600 V/CAT III 1000 V
Auto and manual ranging	•
Display Hold and AutoHold™	•
Unsafe voltage alert warns for voltages above 30 V	•
2 Low battery indications - Base/Display	•
Ergonomic case with integrated holster	•
Selectable sleep mode preserves battery life	•

Specifications		
DC voltage	Range	0.1 mV to 1000 V
	Accuracy	0.25% + 2
AC voltage	Range	0.1 mV to 1000 V
	Accuracy	1.0% + 3
DC current	Range	0.001 A to 10 A
	Accuracy	1.0% + 3
AC current	Range	0.001 A to 10 A
	Accuracy	1.5% + 3
Resistance	Range	0.1 Ω to 40 MΩ
Capacitance		1000 nF to 9999 µF
Frequency		0.1 Hz to 50.00 kHz
Temperature		-40° C to 400° C (-40° F to 752° F)
Power 3		3 AA batteries main body, 2 AA batteries display module
Battery life		400 hours
Compliance		IEC 61010-2-033: CAT IV 600 V, CAT III 1000 V
Size (H×W×L)		5.3 x 9.3 x 19.3 cm (2.08 x 3.6 x 7.6 in)
Weight		604 g



Contact your local distributor for price and availability.

FLUKE ®

Fluke 110 Series True-RMS Digital Multimeters





Dependable Digital Multimeters for Electrical and HVAC applications

All the models in the Fluke 110 series are True-RMS Multimeters with a large 3-1/2 digit / 6000 count display. The Fluke 117 includes integrated VoltAlert™ non-contact voltage detection and LoZ ghost voltage detector features to get the job done faster. The Fluke 116 is the HVAC/R Multimeter with temperature, microamps, and LoZ to quickly troubleshoot problems with HVAC/R equipment. The Fluke 115 is a compact meter for a wide variety of electrical/electronic testing applications, while the Fluke 114 and 113 are basic electrical troubleshooting meters designed for "go/no-go" testing.

- VoltAlert[™] technology for integrated non-contact voltage detection (117)
- AutoVolt feature for automatic AC/DC voltage selection (117, 116, 114)
- Built in thermometer for HVAC applications (116)
- · Microamps to test flame sensors (116)
- VCHEK[™] LoZ low impedance measurement function to simultaneously test for voltage/continuity (113)
- LoZ: Low input impedance prevents false readings • due to "ghost voltage" (117, 116, 114)
- · Large display and white LED backlight to work in poorly lit areas more effectively
- Three-year warranty

Specifications	117	115	113
VoltAlert [™] detector	•	_	_
AutoVolt/LoZ	•	-	Vchek
Analogue bargraph	•	•	•
True-RMS for accurate measurements on non-linear loads	•	٠	•
Min/Max recording	•	•	•
Display hold	•	•	•
3-1/2 digits	•	•	•
6000 counts	•	•	•
CAT III 600 V safety rated	•	٠	•
		116	114
Temperature		•	_
Microamps		•	-
Frequency		•	-
Capacitance		•	-
Diode test		•	_
AutoVolt/LoZ		•	•
Analogue bargraph		•	•
True-RMS for accurate measurements on non-linear loa	ıds	•	•
Min/Max recording		•	•
Display hold		•	•
3-1/2 digits		•	•
6000 counts		•	•

Functions	117	116	115	114	113
AC/DC voltage	600 V	600 V	600 V	600 V	600 V
AC/DC current	10 A	600.0 μA	10 A	-	-
Resistance	40 MΩ	40 MΩ	40 MΩ	40 MΩ	60 kΩ
Capacitance	9999 µF	9999 µF	9999 µF	-	9999 µF
Diode test	•		•	-	•
Frequency	5 Hz to 99.99 kHz	5 Hz to 99.99 kHz	5 Hz to 99.99 kHz	-	-
Temperature		+400° C		-	-
Safety rating	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT IV 600 V



FLUKE-**Electrical and Clamp** 117/323 Meter Combo Kit IB117K

117 Multimeter + Insulated Hand Tools Starter Kit

Fluke 27 II, 28 II and 28 II Ex Industrial IP67 Digital Multimeters



Fluke 28 II



The 27 II, 28 II and 28 II Ex Digital Multimeters are designed for tough work environments. All three meters have IP 67 waterproof and dustproof rating. They provide an extended operating temperature range of

-15° C to 55° C (5° F to 131° F) and 95% humidity.

- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (28 II, 28 II Ex)
- Built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument (28 II, 28 II Ex)
- Hi-resolution 20000 count display mode (28 II, 28 II Ex)
- Resistance and continuity. Relative mode to remove test lead resistance from low ohms measurements
- Large digit display with bright, two-level backlight
- Backlit keypad buttons allow for easy visibility in low-lit areas
- Optional magnetic hanger for easy setup and viewing, freeing your hands for other tasks
- Intrinsically safe certifications from the world's leading certification bodies (28 II Ex)
- Limited lifetime manufacturer's warranty

Features	27 II	28 II	28 II Ex
Tested to withstand a 3 m drop	•	•	•
Wide 1000 V measurement range	•	•	•
True-RMS AC voltage and current for accurate measurements on non-linear signals	-	•	•
Average responding voltage and current measurements	•	-	-
Low pass filter	-	•	•
Temperature	-	•	•
10 A continuous (20 A for 30 seconds)	•	•	•
Frequency and capacitance	•	•	•
Record signal fluctuations using the Min/Max function	•	•	•

Specifications		27 II	28 II	28 II Ex
DC voltage	Range		0.1 mV to 1000 V	
	Accuracy	0.05% +1	0.05% + 1	0.05% + 1
AC voltage	Range		0.1 mV to 1000 V	
	Accuracy	0.5% +3	0.7% +4	0.7% +4
DC current	Range		0.1 µA to 10 A	
	Accuracy	0.2% + 4	0.2% + 4	0.2% + 4
AC current	Range		0.1 µA to 10 A	
	Accuracy	1.5% + 2	1.0% + 2	1.0% + 2
Resistance	Range		0.1 0 to 50 MΩ	
Display counts		6000	6000/19,999	6000/19,999
Capacitance		1 nF to	9999 µF	10 nF to 9999 µF
Frequency		0.5 Hz to 199.99 kHz		
Temperature		-	-200° C to 1090° C	(-328° F to 1994° F)
Low pass filter (measurement on VSD's)		-	Yes	Yes
Compliance		IEC 61010-2-033: CAT IV 600 V, CAT III 1000 V		
Measurement method		Avg. responding	True-RMS	True-RMS
Power		Three AA batteries		
Battery life		800 hours		400 hours
Dimensions (DxWxH)		6.35 x 10.0 x 19.81 cm (2.5 x 3.93 x 7.8 in)		
Weight with holster		700 g (24.69 oz)		



tact your local distributor for

Contact your local distributor for price and availability.

FLUKE ®

Digital Multimeters

Fluke 77IV Digital Multimeter



Fluke 77IV



Versatile multimeter for field service or bench repair

The Fluke 77IV Digital Multimeter has the features needed to repair most electrical and electronic problems. This meter is simple to use and has significant improvements over Fluke's original 70 Series with more measurement functions, conformance to the latest safety standards, and a much larger display that is easier to view.

- Wide 1000 V measurement range
- Average responding AC measurements
- 0.3% accuracy
- 10 amps continuous
- Frequency and capacitance
- Resistance and continuity
- Large display
- Backlight for work in dim areas
- Min/Max to record signal fluctuations
- Integral holster with probe holders
- Free your hands with the optional TPAK magnetic hanger
- Auto and manual ranging
- Limited lifetime manufacturer's warranty

Function	Maximum	Max. resolution	Accuracy		
Voltage DC	1000 V	1 mV	±(0.3%+1)		
Voltage AC	1000 V	1 mV	±(2.0%+2)		
Current DC	10 A	0.01 mA	±(1.5%+2)		
Current AC	10 A	0.01 mA	±(2.5%+2)		
Resistance	50 MΩ	0.1 Ω	±(0.5%+1)		
Capacitance	9,999 µF	1 nF	±(1.2%+2)		
Frequency	99.99 kHz	0.01 Hz	±(0.1%+1)		

Accuracies are best accuracies for each function.

General Specifications

Accuracy is specified for one year after calibration, at operating temperatures of 18° C to 28° C, with relative humidity at 0% to 90%. Accuracy specifications take the form of \pm ([% of Reading] + [Counts]).

Specifications	77IV		
V Maximum voltage between any terminal and earth ground	1000 V		
Surge protection	8 kV peak per IEC 61010-2-033		
Fuse for mA input	440 mA, 1000 V FAST Fuse		
Fuse for A input	11 A, 1000 V FAST Fuse		
Display	Digital: 6000 counts, updates 4/sec		
Bar Graph	33 segments, updates 32/sec		
Frequency	10000 counts		
Capacitance	1000 counts		
Operating altitude	2000 m		
Storage altitude	12000 m		
Operating temperature	-10° C to 50° C (14° F to 122° F)		
Storage temperature	-40° C to 60° C (-40° F to 140° F)		
Temperature coefficient	0.1 × (specified accuracy/° C (< 18° C or > 28° C) (< 64.4° F or > 82.4° F))		
Electromagnetic compatibility (EN 61326-1:1997)	In an RF field up to 3 V/m, accuracy = specified accuracy except in temperature: specified accuracy $\pm 5^{\circ}$ C		
Relative humidity (maximum non-condensing)	90% to 35° C; 75% to 40° C; 45% to 50° C (90% to 95° F; 75% to 104° F; 45% to 122° C)		
Battery life	400 hours		
Size (H×W×L) and Weight	185 × 90 × 43 mm (7.28 × 3.54 × 1.70 in); 420 g (14.81 oz)		
Safety compliance	IEC 61010-2-033; CAT III 1000 V, CAT IV 600 V		
Certifications	CSA		

Recommended Accessories



AC Current Clamp Soft Carry

C35 Soft Carrying Case



TPAK Magnetic Meter Hanger **TL225** SureGrip[™] Stray Voltage Adapter Test Lead Kit



i2000 FLEX AC Current Clamp **TLK-225** SureGrip™ Master Accessory Kit



Included Accessories

TL75 Test Leads, 9V battery (installed), manual information pack.

Ordering Information FLUKE-77-4 Digital Multimeter

Contact your local distributor for price and availability.

Fluke PRV240 and PRV240FS Proving Units



Fluke PRV240





Fluke PRV240 FS



Fluke PRV240 Proving Unit

The Fluke PRV240 Proving Unit is a portable, pocket-sized, battery-powered voltage source. It is unique in that it sources stable AC and DC voltages for both LoZ and HiZ instruments.

- Sources both AC and DC steady-state voltage supplies 240 V DC/AC
- A single LED indicates functionality, making this unit a simple-to-use solution for verification of your test tool
- Compatible with both high impedance or low impedance multimeters, clamp meters or two pole testers
- Voltage is sourced through recessed contacts that are activated when tested probes are inserted to avoid accidental contact
- Includes Magnetic Hanging Strap
- Long battery life 5000 tests per set of four AA batteries
- One-year warranty

Fluke PRV240FS Proving Unit

The Fluke PRV24OFS Proving Unit is specifically built to prove the functionality of the FieldSense™ measurement on the Fluke T6 Electrical Testers. It also provides AC and DC voltages for other HiZ instruments in your tool box.

- Reduces the risk of shock and arc flash by validating the functionality of test tools without placing yourself in a potentially hazardous electrical environment
- Can prove functionality of the FieldSense™ measurement on the T6 Electrical Testers
- Sources both AC and DC steady-state voltage supplies 240 V DC/AC
- A single switch and a set of LEDs indicate functionality of both the FieldSense™ "no-test-lead" voltage measurement capability, plus standard AC and DC measurements with test leads
- Compatible with high impedance multimeters or clamp meters
- Voltage is sourced through a central hub designed to test the T6 FieldSense[™] open fork, as well as through recessed contacts that are activated when test probes are inserted to avoid accidental contact
- Long battery life 2000 tests per set of four AA batteries
- One-year warranty

Specifications	PRV240	PRV240FS	
Output voltage		RMS or DC ≥ 1 MΩ	
$LoZ > 3 k\Omega$ load	60 V AC typical 50 V AC RMS minimum	-	
LED power indicator	Turns on when out	put voltage present	
Battery	4 AA Alkaline batteries NEDA 24 A IEC LRO3	4 × AA Alkaline batteries NEDA 15A IEC LR6	
Battery life	5000 (5-second duration) test cycles with >1 MΩ load, 300 tests minimum with >3 kΩ load	2000 (10-second duration) test cycles with >1 M Ω load	
Operating temperature	-10° C to 50° C	(50° F to 122° F)	
Operating altitude	2000 m (6,561 ft)		
Dimensions	$11.7 \times 7.4 \times 2.8$ cm (4.6 x 2.9 x 1.1 in)	11.7 × 7.4 × 4.5 cm (4.6 x 2.9 x 1.75 in)	
Weight	0.23 kg (8.11 oz) includes batteries	0.32 kg (11.28 oz) includes batteries	
Safety	IEC 61010-1, IE	C 61010-2-030	





Included Accessories

TPAK Hanging Strap, four AA batteries, instruction sheet.

Ordering I	nformation
PRV240	Proving Unit
PRV240FS	Proving Unit
T6-1000/ PRV240FS	T6-1000 & PRV240FS Proving Unit Kit



Fluke 8808A Precision Bench Multimeters



Fluke 8808A



Fluke 8808A 5.5 Digit Multimeter

The Fluke 8808A multimeter has a broad range of functions, measuring volts, ohms and amps with a basic V DC accuracy of 0.015%. The meter is easy to use and include innovative functions to simplify routine testing and precision 4 wire resistance measurements.

- 5.5 digit resolution
- Up to 0.015% accuracy
- · Dual measurement display
- Sensitive DC leakage current ranges
- Front panel setup keys

- TL2X4 wire measurement technique • Three year warranty

Specifications	8808A
Display	Dual
Resolution (digits)	5.5
Measurements	V AC, V DC, I DC, I AC, Ω , Cont, Diode
Basic V DC accuracy (% Reading +% Range)	0.015 + 0.003
Advanced measurements/ functions	2x4 wire ohms, freq, i-Leakage dedicated setup keys
Math	Null, dBm, dB, Min, Max
Analysis	Limit Compare
USB memory device port	No
Interfaces	RS-232, USB via optional adapter
Safety rating	CAT I 1000 V, CAT II 600 V

Recommended Accessories





884X-CASE Moulded Plastic Case





Included Accessories

LCI Line Power Cord, Test Lead Set, Spare Line Power Fuse, Programmers Manual/ User Manual on CD-ROM, 884X-USB USB to RS232 Cable Adapter, FVF-BASIC FlukeView[®] Forms Software Basic Version.

Ordering Information

FLUKE 5.5 Digit Multimeter 8808A

FLUKE 5.5 Digit Multimeter 8808A/SU (Software + Cable)

Calibration & Service Agreement units also available.

Contact your local distributor for price and availability.

Digital Multimeters

Clamp Meters

2

Wires in tight compact spaces. Panels out of reach. Extra-large conductors. We understand your workspace and have designed products for noise-free, reliable readings. Built on success, digital clamp meters designed by Fluke are known as workhorse current clamp meters. With advanced performance features, the amp clamp meter line is designed to be simple to use and gimmick-free.

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CONTRACTOR

Stadicore

Plane

Clamp Meter Selection Guide

Fluke Clamp Meters	Resident	Residential/Commercial Electrical	Electrical		General Purpose	urpose			Industrial Electrical	llectrical			HVAC/R	High-End Industrial, Utility	istrial, Utility	Leakage	Wireless	ess
	323	324	325	365	373	374 FC	375 FC	376 FC	377 FC	378 FC	381	393 FC	902 FC	353	355	368 FC/369 FC	a3000 FC	a3001 FC
Measurements	·	·	ŀ		•		•		ŀ			ŀ				•		·
AC voltage	•	•	•			•		•	•	•	•	•	•					
Resistance	•	•	•		•	•	•	•	•	•	•	•	•					
Continuity	•	•	•	•	•	•	•	•	•	•	•	•	•		•			
DC voltage	•	•																
True-RMS	•		•	•		•	•	•	•	•	•			•	•		•	
Frequency			•						•		•			•				
AC + DC voltage																		
AC + DC current																		
Min/Max/Avg			•			•		•	•	•	•	•	•	•	•			
Temperature		•	•										•					
Capacitance		•	•		•	•	•	•	•	•		•	•					
Measurement logging	_			_	_	•		•	•	•		•	_		_	•	•	
Special Features																		
Inrush current mode								•				•			•			
Low Pass filter for VFDs							•	•	•	•	•			•	•			
18-inch iFlex [™]						Optional	Optional	Included	Included	Included	Included	Included						Included
Wireless																		
FieldSense™																		
PQ indicator																		
DC power																		
Display																		
Display hold	•																in phone app	in phone app
Backlight Snerifications						•		•	•		•		•					
Jaw opening	30 mm (1.18 in)	30 mm (1.18 in)	30 mm (1.18 in)	18 mm (0.7 in)	32 mm (1.26 in)	34 mm (1.33 in)	34 mm (1.33 in)	34 mm (1.33 in)	34 mm (1.33 in)	34 mm (1.33 in)	34 mm (1.33 in)	34 mm (1.33 in)	30 mm (1.2 in)	58 mm (2.3 in)	58 mm (2.3 in)	40 mm (1.5 in)/ 61 mm (2.4 in)	34 mm (1.33 in)	254 mm (10 in) coil
Max wire size	300 mm^2 (11.81 in ²)	300 mm^2 (11.81 in ²)	300 mm ² (11.81 in ²)	17 mm (0.67 in)	400 mm^2 (15.74 in ²)	400 mm^2 (15.74 in ²)	400 mm^2 (15.74 in ²)	400mm^2 (15.74 in^2)	$400 \mathrm{mm}^2$ (15.74 in ²)	400 mm^2 (15.74 in ²)	400 mm ² (15.74 in ²)	400 mm^2 (15.74 in ²)	$300 \mathrm{mm}^2$ (11.81 in ²)	400 mm ² or 3× 240 mm ² (15.74 in ² or	400 mm ² or 3× 240 mm ² (15.74 in ² or		400 mm^2 (15.74 in ²)	
Current range AC	0 to 400.0 A	0 to 40.00 A/ 400.0 A	0 to 40.00 A/ 400.0 A	0 to 200.0 A	0 to 600.0 A	0 to 600.0 A (2500 A with	0 to 600.0 A (2500 A	0 to 999.9 A (2500 A	0 to 999.9 A (2500 A	0 to 999.9 A (2500 A	0 to 999.9 A (2500 A	0 to 999.9 A (2500 A	0 to 600.0 A	_	0 to 1400 A	0 to 60 A	0 to 400 A	0 to 2500 A
Accuracy AC current	2% +5 counts			2% +5 counts	2% +5 counts	_	_	_		_	_	2%h +5 counts	2% +5 counts	1.5%	1.5%	1% +5 counts	2% +5 counts	3% +5 counts
(50/60 Hz)	Diffe	DMG one	DMC	_	-	DWG CIT		_	-	-	_	DWG CIT	SWG CITE	±5 counts	-	_	Twie DMC	DMC CIT
Current range DC			0 to 40.00 Å/	0 to 200 A		0 to 600.0 A	0 to 600.0 A	×	5	0 to 999.9 A	0 to 999.9 A	0 to 999.9 A	0 to 200 uA	0 to 2000 A	0 to 2000 A	Curr on I	Ciant on II	Cunt on II
Accuracy DC current			400.0 A 2% +5 connts	2% +5 counts		20% +5 counts						2% +5 counts	10/6 +5 counts	1.5% ±5	1.5% ±5			
Voltare range AG	0 to 600.0 V	0 to 600.0 V	0 to 600 0 V	0 to 600.0 V	0 to 600.0 V	0 to 1000 V	_	_	_	_	-	0 to 1000 V	0 to 600 0 V	counts	0 to 600 0 V			
Accuracy AC voltage	1.5% ±5	1.5% ±5	1.5% ±5	-		1.5% ±5 counts	1.5% ±5	-	-	1.5% ±5	1.5% ±5	1.5% ±5	1% ±5 counts		1% ±5 counts			
Voltage range DC	0 to 600.0 V	0 to 600.0 V	0 to 600.0 V	-	_	0 to 1000 V	0 to 1000 V	~	~	0 to 1000 V	0 to 1000 V	0 to 1500 V	0 to 600.0 V		0 to 1000 V			
Accuracy DC voltage	1.0% ±5	1.0% ±5	1.0% ±5	2% ±5 counts	1% ±5 counts	1% ±5 counts	1% ±5 counts	10	50	50	1% ±5 counts	1% ±5 counts	1% ±5 counts		1% ±5 counts			
Resistance range	0 to 4000 Ω	0 to 4000 Ω	0 to 40 kΩ	0 to 6000 Ω	0 to 6000 Ω	0 to 6000 Ω	0 to 6000 Ω	0 to 60 kΩ	0 to 60 k0	0 to 60 kU	0 to 60 kΩ	0 to 60 kU	0 to 9999 Ω		0 to 400 kΩ			
Frequency range Warranty and Safety			5 to 500 Hz				500 Hz	500 Hz	500 Hz	500 Hz	500 Hz	500 Hz		5 to 1000 Hz		40 to 1000 Hz		
Warranty (years)	2	2	2	e	e	с	ę	с	e	e	e	e	с	с	e	1	ę	с
Safety Compliance (IEC 61010-2-032)	CAT IV 300 V, CAT III 600 V	CAT IV 300 V, CAT III 600 V	CAT IV 300 V, CAT III 600 V	CAT III 600 V	CAT III 600 V, CAT IV 300 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, C CAT IV 600 V	CAT III 1000 V, C CAT IV 600 V	CAT III 1000 V, C CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1500 V, CAT IV 600 V	CAT III 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 600 V	CAT III 600 V	CAT III 1000 V CAT IV 600 V
Fluke Connect [™] App compatible																		
			-	•										•				

Clamp Meters

Fluke 393 FC Solar Clamp Meter CAT III 1500 V



Fluke 393 FC



Features

DC power

Current DC

Voltage AC

Voltage DC

Capacitance

Jaw opening Visual Continuity

Audio Polarity

Display

Resistance / Continuity

mV DC

Current AC (clamp jaw)

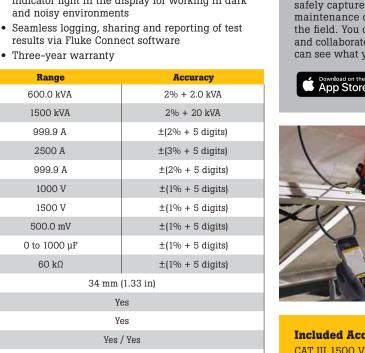
Current AC (iFlex™)

The World's First CAT III **1500 V Solar Clamp Meter**

The Fluke 393 FC CAT III 1500 V/CAT IV 600 V True-RMS Clamp Meter with iFlex is designed for technicians who work in DC environments up to 1500 V: solar arrays, wind power, electric railways, and data center battery banks for uninterruptible power supplies. The Fluke 393 FC meets the IEC 61730-1 standard for overvoltage category III photovoltaic panels and extends the safe measurement range up to 1500 V DC.

Make DC power measurements quickly and accurately with a tool that does it all: V, A and Power (kVA). Ensure PV panels are properly installed with the help of an audio beep to indicate incorrect polarity. Visual Continuity makes continuity testing easier in lowlight situations.

- · Safe and accurate voltage measurement up to 1500 V DC
- Thin jaw for access to cables in crowded combiner boxes
- IP54 rating for dust and water making it ideal for working outdoors on solar arrays and wind power systems
- DC power measurement, showing readings in kVA
- Audio and Visual Polarity to ensure photovoltaic panels are properly installed
- Visual Continuity that provides a bright green indicator light in the display for working in dark and noisy environments







Work in the Solar Industry?

Visit the link to learn how Fluke tools can help with the future of power. fluke.com/solar-energy-tools







Get the FREE Fluke Connect™ App!

By using the Fluke Connect[™] App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.





Included Accessories

CAT III 1500 V rated test leads, 18-inch iFlex[™] Flexible Current Probe, ToolPak Magnetic Meter Hanger, premium carrying case, two AA batteries.

Ordering Information

FLUKE-393 FC CAT III 1500 V True-RMS AC/DC Clamp Meter with iFlex[™]



Fluke 377 FC and 378 FC Clamp Meters with FieldSense™



Fluke 377 FC





Voltage and Current Measurements with FieldSense™ Technology

The new Fluke 377 FC and 378 FC are the first industrial clamp meters that use FieldSense[™] technology to make accurate non-contact voltage measurements, thereby enhancing safety and improving productivity. Get a full set of phase-to-phase voltage and current measurements along with auto-calculation of phase rotation by clamping the jaw over each of the three-phase conductors. The Fluke 378 FC includes the unique power quality indicator that automatically senses power quality issues related to current, voltage and power factor, enabling you to quickly determine if the fault is upstream or downstream.

- Safe and accurate voltage measurement without metallic contact
- View both voltage and current measurements simultaneously on dual display
- Complete three-phase measurements 50% faster than other industrial clamp meters
- Phase rotation information is auto calculated (in Fluke Connect[™] App)
- Screen equipment for power quality problems with PQ Indicator (Fluke 378 FC only)
- Easy logging, seamless data transfer and reporting with Fluke Connect™
- Three-year warranty

Features	Range	377 FC	378 FC
Current AC	999.9 A	±(2% + 5	5 digits)
(clamp jaw/iFlex™)	2500 A	±(3% + 5	3 digits)
Current DC	999.9 A	±(2% + 5	5 digits)
Voltage AC (FieldSense™)	1000 V	±(3% + 5 digits ±(5% + 5 digits	
Voltage AC (Test Leads)	1000 V	±(1% + 5	5 digits)
Voltage DC	1000 V	±(1% + 5	5 digits)
Capacitance	1000 µF	±(1% + 4	ł digits)
Resistance/Continuity		60 kΩ	/ Yes
Jaw opening		34 mm (1	1.33 in)
Three-phase calculations		Ye	s
Power Quality indicator		No	Yes
Phase Rotation		Yes	
Visual Continuity		Yes	
Data Logging		Уе	S
Low pass filter (for VFD)		Уе	S
Safety Compliance		IEC 61010-2-032: CAT III	1000 V / CAT IV 600 V



FieldSense™ Enabled



Non-contact voltage measurement made possible with Fluke's FieldSense™ technology.

Get voltage measurements faster, easier and safer than ever. No direct electrical contact means less potential for electric shocks and arc flash.





Included Accessories

Test Leads, TwistGuard[™] Test Probes, black grounding clip, 18-inch iFlex[™] Flexible Current Probe, ToolPak Magnetic Meter Hanger, premium carrying case, two AA batteries and quick reference guide.

Ordering Information

Fluke 377 FC	Non-Contact Voltage True-RMS AC/DC Clamp Meter
Fluke 378 FC	Non-Contact Voltage True-RMS AC/DC Clamp Meter

Contact your local distributor for price and availability.

Clamp Meters

Fluke 370 Series Clamp Meters



True



The Fluke 370 Series of True-RMS Clamp Meters provides a range of state-of-the-art features to meet even the most demanding job requirements. All four of the clamp meters have improved base features such as a large, backlit display, true-RMS standard, CAT IV safety rating and a durably constructed body. In addition, the 376 FC, 375 FC and 374 FC are part of the Fluke Connect[™] family of wireless test tools and are compatible with the iFlex[™] Flexible Current Probe (included with the 376 FC, sold separately for the 375 FC and 374 FC), and provide increased measurement readings

Includes a three-year warranty.

to 1000 A.



Functions	Range	373	374 FC	375 FC	376 FC
Current AC	0 to 600.0 A	±(2% + 5 digits)	±(2% + 5 digits)	±(2% + 5 digits)	-
Accuracy	0 to 999.9 A	-	-	-	±(2% + 5 digits)
Current AC Accuracy (iFlex™)	0 to 2500 A	-	±(3% + 5 digits)	±(3% + 5 digits)	±(3% + 5 digits)
Current DC	0 to 600.0 A	-	±(2% + 5 digits)	±(2% + 5 digits)	-
Current DC	0 to 999.9 A	-	-	-	±(2% + 5 digits)
Voltogo AC	0 to 600.0 V	±(1% + 5 digits)	-	-	-
Voltage AC	0 to 1000 V	-	±(1% + 5 digits)	±(1% + 5 digits)	1±(% + 5 digits)
Valtara DC	0 to 600.0 V	±(1% + 5 digits)	-	-	-
Voltage DC	0 to 1000 V	-	±(1% + 5 digits)	±(1% + 5 digits)	±(1% + 5 digits)
Resistance range	-	0 to 6000 Ω	0 to 6000 Ω	0 to 6000 Ω	0 to 60 kΩ
Jaw opening	-	32 mm (1.25 in)	34 mm (1.33 in)	34 mm(1.33 in)	34 mm(1.33 in)
Max. wire size	-	750 MCM	750 MCM	750 MCM	750 MCM
Frequency measurement range	-	-	-	500 Hz	500 Hz
Safety Compliance (61010-2- 032)	-	CAT III 600 V, CAT IV 300 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V

Fluke iFlex™ Flexible Current Probe

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Unprecedented measurement flexibility

The iFlex[™] Flexible Current Probe expands the measurement range of select Fluke Clamp Meters to 2500 A AC while providing increased display flexibility, improved wire access and the ability to measure awkward-sized conductors. Available in 18-inch and 10-inch coil sizes.

- Compatible with Fluke 374 FC, 375 FC, 376 FC and 381
- CAT IV 600 V, CAT III 1000 V
- 7.5 mm (0.29 in) coil diameter allows measurement in tight spaces
- 1.8 m (5.9 ft) cable
- Three-year warranty



Fluke Connect™ Enabled



The Fluke 376 FC, 375 FC, and 374 FC are part of the Fluke Connect[™] family of wireless test tools.

- Trend measurements, pinpoint intermittent faults and transmit results wirelessly by connecting your meter to your phone via the Fluke Connect™ mobile app
- Create and send reports right from the field
- Stay safely away from the arc flash zone through Bluetooth connectivity

Included Accessories

18-inch iFlex™ Flexible Current Probe (Fluke 376 FC only), Test Leads, Soft Carrying Case, Instruction Card, Safety Information Sheet, Two AA Alkaline Batteries.

Ordering Information

FLUKE 373	True-RMS Clamp meter
FLUKE 374 FC	True-RMS Clamp meter
FLUKE 375 FC	True-RMS Clamp meter
FLUKE 376 FC	True-RMS Clamp meter
i2500-10 iFlex™	Flexible Current Probe 25 cm (9.84 in)
i2500-18 iFlex™	Flexible Current Probe 46 cm (18.11 in)
Calibration & Se	ervice Agreement units

also available.

Fluke 320 Series True-RMS Clamp Meters





Go to work with the best

True-RMS measurements and optimized ergonomics make the Fluke 320 Series True-RMS Clamp Meters the best general troubleshooting tools for commercial and residential electricians. The 323, 324 and 325 are designed to verify the presence of load current, AC voltage and continuity of circuits, switches, fuses and contacts. These small and rugged clamp meters are ideally suited for current measurements up to 400 A in tight cable compartments. The Fluke 325 also offers DC current and frequency measurements.

- 400 A AC current measurement
 - (AC and DC current; 325 only)
- 600 V AC and DC voltage measurement
- True-RMS AC voltage and current for accurate measurements on non-sinusoidal signals
- Resistance measurement to up to $40 \text{ k}\Omega$ with continuity detection (325 only)
- Temperature and capacitance measurement (324 and 325 only)
- Frequency measurement (325 only)
- Slim, ergonomic design
- Large, easy to read backlit display (324 and 325 only)
- (324 and 32
- CAT IV 300 V/CAT III 600 V safety rating
- Hold button
 - Two-year warranty

	Residential/Com	mercial Electrical	Light Industrial
	323	324	325
Measurements			
AC current	٠	•	•
AC voltage	•	•	•
Resistance	•	•	•
Continuity	•	•	•
DC voltage	•	•	•
DC current	-	-	•
True-RMS	•	•	•
Frequency	-	-	•
Min/Max/Avg	-	-	•
Temperature	-	•	•
Capacitance	-	•	•
Display			
Display hold	•	•	•
Backlight	-	•	•
Specifications			
Jaw opening		30 mm (1.18 in)	
Max wire size		600 MCM	
Current range AC RMS		0 to 400.0 A	
Accuracy AC current (50/60 Hz)	±(2.0% + 5 digits)	±(1.5% + 5 digits)	±(2.0% + 5 digits)
AC response		True-RMS	
Current range DC	-	-	0 to 400 A
Accuracy DC current	-	-	±(2.0% + 5 digits)
Voltage range AC		0 to 600.0 V	
Accuracy AC voltage		±(1.5% + 5 digits)	
Voltage range DC		±600 V	
Accuracy DC voltage		±(1% + 5 digits)	
Resistance range	0 to 4	000 Ω	0 to 40 kΩ
Frequency measurement range	-	-	500 Hz





Included Accessories

Test Leads, Soft Case, User Manual.

Ordering Information

 FLUKE-323
 True-RMS Clamp Meter

 FLUKE-324
 True-RMS Clamp Meter

 FLUKE-325
 True-RMS Clamp Meter

Contact your local distributor for price and availability.

Clamp Meters

Fluke 350 Series AC/DC True-RMS Clamp Meters



Versatile, professional and accurate

Confidently take reliable readings with the True-RMS Fluke 353 and 355 Clamp Meters-the tools of choice for high current clamp-on amp meter measurements up to 2000 A.

- · Reliably handle a wide range of high-current applications with 2000 A AC+DC True-RMS, 1400 A AC, and 2000 A DC
- Large 58 mm (2.28 in) jaw
- Inrush current measurement • High voltage measurement of 1000 V AC+DC True-RMS,
- 600 V AC, and 1000 V DC (355 only)
- Resistance to 400 kΩ (355 only)
- Continuity beeper (355 only)
- Frequency measurement to 1 kHz
- Selectable low-pass filter mode
- Min/Max/Avg
- Large display with backlight
- Three-year warranty



Features	353	355
True-RMS measurements	•	•
Display backlight	•	•
Motor start-up current	•	•
Min/Max/Average	•	•
Voltage AC/DC	-	•
Resistance measurement	-	•
Continuity measurement with beeper	-	•

Functions	Range	353	355	
Current AC/DC	40.00 A	$\pm(1.5\% + 15 \text{ digits})$	±(1.5% + 15 digits)	
	0-400.0 A	$\pm(1.5\% \pm 5 \text{ digits})$	$\pm(1.5\% + 5 \text{ digits})$	
	2000 A; 1400 AC RMS	$\pm(1.5\% \pm 5 \text{ digits})$	$\pm(1.5\% + 5 \text{ digits})$	
Crest Factor		2.4	2.4	
Voltage AC/DC	4.00 V	-	±(1% + 10 digits)	
	40.00 V	-	±(1% + 5 digits)	
	400.0 V	-	±(1% + 5 digits)	
	0-600 V AC RMS	-	±(1% + 5 digits)	
	1000 V DC	-	±(1% + 5 digits)	
Resistance	0-400.0 Ω	-	±(1.5% + 5 digits)	
	0-4.00 kΩ	-	±(1.5% + 5 digits)	
	0-40.00 kΩ	-	±(1.5% + 5 digits)	
	0-400.0 kΩ	-	±(1.5% + 5 digits)	
Continuity beeper	Appr. ≤ 30 Ω	-	±(1.5% + 5 digits)	
Frequency	5.0 Hz to 100.0 Hz	±(0.2% ±2 digits)	±(0.2% + 2 digits)	
Power Supply	6×1.5 V AA NEDA 15A or IEC LR6			
Battery life	100 hours (with typical usage, backlight off)			
Size (HxWxD)	300 × 98	3 × 52 mm (11.81 × 3.8	5 × 2.04 in)	
Jaw opening		58 mm (2.28 in)		
Weight		0.81 kg (1.78 lb)		
Safety Compliance (IEC 61010-2-032)	6	00 V CAT IV, 1000 V CA	T III	



Fluke 353: C43 Soft Meter Case, Six AA Batteries, User Manual.

Fluke 355: C43 Soft Meter Case, Six AA Batteries, TL224 SureGrip™ Silicone Test Lead Set, TP2 Slim Reach Test Probe Set (2 mm), AC285 SureGrip™ Alligator Clip Set, User Manual.

Ordering Information

FLUKE-353	True RMS AC/DC Clamp Meter
FLUKE-355	True RMS AC/DC Clamp Meter

Clamp Meters

Fluke 381 Remote Display True-RMS AC/DC Clamp Meter with iFlex[™]



Fluke 381



The World's most advanced clamp meter

The Fluke 381 True-RMS AC/DC Clamp Meter combines iFlex[™] flexibility with remote reading capability for the ultimate in innovation and safety. Now one technician can do jobs that would otherwise require two people. Clamp the Fluke 381 around a conductor, remove the display and walk across the room to operate controls or remove protective equipment, all while watching real-time readings.

The iFlex[™] Flexible Current Probe (included) expands the measurement range to 2500 A AC while providing increased display flexibility. With a cord that runs 6 feet, you can finally measure those tight spaces, awkward sized conductors and disorganized wires.

- Remote display reads measurements up to 9.1 m (29.85 ft) away
- iFlex[™] Flexible Current Probe included,18 inch circumference
- 2500 A AC current measurement with iFlex[™]
- 999.9 A AC and DC current measurement with fixed jaw
- 1000 V AC and DC voltage measurement
- Frequency measurement to 500 Hz
- 60 k Ω resistance measurement
- Min/Max/Avg and inrush recording
- IEC 61010-2-032: CAT IV 600 V, CAT III 1000 V
- Three-year warranty

Fluke 365 Detachable Jaw True-RMS AC/DC Clamp Meter



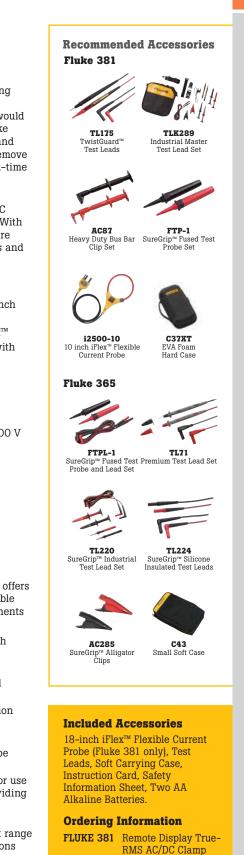
Fluke 365



Where rugged meets reliable

The Fluke 365 True-RMS AC/DC Clamp Meter offers a small, detachable jaw with 1.2 meters of cable that makes it easy to take and read measurements in tight or hard-to-reach places.

- 200 A AC and DC current measurement with detachable jaw
- 600 VAC and DC voltage measurement
- Detachable jaw makes accessing wires and viewing the display easier
- Built in flashlight allows for easy illumination and identification of wires
- IEC 61010-2-032: CAT III 600 V
- Compact design fits in your hand and can be used while wearing protective equipment
- State-of-the-art signal processing allows for use in noisy electrical environments while providing stable readings
- Large, easy to read, backlight display automatically sets the correct measurement range so you do not need to change switch positions while taking a measurement
- Three-year warranty



FLUKE 365 Detachable Jaw True-RMS AC/DC Clamp Meter

Meter with iFlex^{TP}

Contact your local distributor for price and availability.

Clamp Meters 45

Fluke 902 FC True-RMS HVAC Clamp Meter

Applications for HVAC

• Capture flue gas temperature

• Three-year warranty

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Improve productivity in the field

field, and safely stay away from live equipment.

Measure start and run motor capacitors

IEC 61010-2-032: CAT III 600 V, CAT IV 300 V

1000 µF capacitance measurement

The Fluke 902 FC delivers the features necessary to diagnose and repair HVAC systems. In addition, with Fluke Connect[™] you can trend measurements, create and send reports right from the

• 200 µA DC current measurements to measure flame rod

Measure performance of variable frequency drives

• Extended resistance range to measure thermistors up to $60 \text{ k}\Omega$

Temperature measurement from -10° C to 400° C (14° F to 752° F)





Functions	Range	Resolution	Accuracy
A AC (via Jaw)	60/600 A	0.01/0.1 A	±(2.0% + 5 digit) (45-65 Hz) ±(2.5% + 5 digit) (65-400 Hz)
V AC	600 V	0.1 V	±(1.5% + 5 digit) (45-400 Hz)
V DC	600 V	0.1 V	±(1% + 5 digits)
Ohms	600/6000 /60000 Ω	0.1/1/10	±(1% + 5 digits)
μA	200 µA	0.1 µA	$\pm(1\% + 4 \text{ digits})$
Contact Temperature	10° C to 400° C (50° F to 752° F)	0.1 C/F	±(1% + 8 digits)
Capacitance	100.0/1000 μF	0.1/1 μF	$\pm(1\% + 4 \text{ digits})$
Continuity Beeper			
Beep Volume	75 dBA nom. 15 cm from case front		

On Threshold $\leq = 30 \Omega$

Fluke 368 FC/369 FC AC True-RMS Leakage Current Clamp Meters



Fluke 369 FC



current readings over time to prevent unplanned downtime,
and identify intermittent GFCI and RCD trips, without taking
equipment offline.

Measure leakage current to track small

problems, avoid large problems

 True-RMS measurements for accuracy when measuring complex, non-sinusoidal waveforms

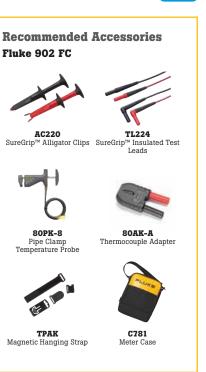
The Fluke 360 Series of True-RMS Leakage Current Clamp

Jaw size: 40 mm (1.57 in) (368 FC) and 61 mm (2.4 in) (369 FC)

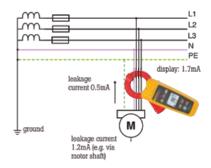
Meters help users detect, document, record and compare leakage

- Current resolution 1 µA/0.01 mA and 0.01 A/0.1 A
- Frequency range 40 Hz to 1 kHz
- Selectable filter 40 Hz to 70 Hz or wideband 40 Hz to 1 kHz
- Highest resolution of 1 µA, measure up to 60 A
- Forward-facing LED worklight for use in dark wiring cabinets
- Backlit display; auto backlight off and auto power off for extended battery life.
- Wireless data connectivity via Fluke Connect[™]
- CAT III 600 V safety rating
- Three-year warranty

Specifications	
Measurement Function	Alternating current
AC Ampere Range	3 mA, 30 mA, 300 mA, 3 A, 30 A, 60 A
Range Selection	mA, A: manual selection 3 mA, 30 mA, 300 mA: automatic selection 3 A, 30 A, 60 A: automatic selection
Frequency	40 Hz to 1 kHz
Crest Factor	Three







Included Accessories

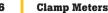
Fluke 902 FC: TL75 Test leads, 80BK Integrated DMM Temperature Probe, Two AA Alkaline Batteries, Soft Carrying Case, Statement of Calibration Practices and User Manual. Fluke 368 FC/369 FC: Soft Case, Two AA Batteries, Safety Manual.

Ordering Information

FLUKE 902 FC HVAC Clamp Meter

FLUKE 368 FC AC Leakage Current **Clamp Meter**

FLUKE 369 FC AC Leakage Current **Clamp Meter**



Battery Analyzers

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Fluke Battery Analyzers are the ideal test tool for maintaining, troubleshooting and performance testing individual stationary batteries and battery banks used in critical battery back-up applications in data centers, telecom networks, power distribution systems and more. With an intuitive user interface, a compact design, and rugged construction Fluke Battery Analyzers are designed to provide optimum performance and reliability.

B

STLT!

2.64 mg

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Fluke BT500 Series Battery Analyzers



Functions



Fluke BT510

More battery tests. Less time.

Fluke's BT500 Series Battery Analyzers cover a broad range of battery test functions ranging from DC voltage and resistance tests to full condition testing using an automated string function testing and the test probe integrated infrared temperature measurement system. 500 Series Battery Analyzers are designed for measurements on stationary batteries of all types.

- The world's fastest battery measurements reduce time of a typical battery measurement by 50% from 8 seconds to 4 seconds
- Unique Industry leading CAT III 600 V safety rating
- Key measurements: Battery resistance, DC and AC voltage, DC and AC current, ripple voltage, frequency and battery temp
- Sequence measurement mode: Automatic or manual sequence testing of battery strings with automatic measurement storage including voltage, resistance and temperature (with BTL21 intelligent test probe)
 - Optimized user interface: Quick, guided setup ensures you're capturing the right data every time.
- Intelligent test probe set (BT520 and BT521): Integrated LCD display, infrared temperature measurement (BT521 only), verbal audio feedback and captures voltage readings and temperature logging automatically or via integrated save button Three meaning o m tro

BT520

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BT510

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BT521*

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	• 1110	ee-year warr	anty
	Range	Resolution	Accuracy
	3 mΩ	0.001 mΩ	1% + 8
ce1	30 mΩ	0.01 mΩ	0.8% + 6
	300 mΩ	0.1 mΩ	0.8% + 6

Battery resistance ¹	30 mΩ	0.01 mΩ	0.8% + 6	•	•	•
	300 mΩ	0.1 mΩ	0.8% + 6	•	•	•
	3000 mΩ	1 mΩ	0.8% + 6	•	•	•
	6 V	0.001 V	0.09% + 5	•	•	•
V DC	60 V	0.01 V	0.09% + 5	•	•	•
V DC	600 V	0.1 V	0.09% + 5	•	•	•
	1000 V	1 V	0.09% + 5			•
V AC (45 Hz to 500 Hz with 800 Hz filter)	600 V	0.1 V	2% + 10	•	•	•
Frequency (displayed with Vac and Aac) ²	500 Hz	0.1 Hz	0.5% + 8	•	•	•
AC voltage ripple	600 mV	0.1 mV	3% + 20	•	•	•
(20 KHz Max)	6000 mV	1 mV	3% + 10	•	•	•
A DC/A AC (with accessory Fluke i410)	400 A	1 A	3.5% + 2			•
Temperature	0° C to 60° C (32° F to 140° F)	1° C	2° C			•
Meter mode	999 records for each measurement position with time stamp			np		
Sequence mode	Up to 100 profiles and 100 profile templates (Each profile stores up to 450 batteries) with time stamp)		

*BT520ANG and BT521ANG for angled probe models

Specifications

Size (HxWxD) and Weight	220 × 103 × 58 mm (8.66 × 4.05 × 2.28 in), 850 g (1.87 lb)
Screen dimensions	77 × 56 mm (3.03 × 2.2 in)
Interface	USB mini
Operating temperature	0° C to 40° C (32° F to 104° F)
Lithium-ion battery charging temperature	0° C to 40° C (32° F to 104° F)
Operating humidity	Non-condensing (10° C), ≤80% RH (at 10° C to 30° C (50° F to 86° F)), ≤75% RH (at 30° C to 40° C (86° F to 104° F))
Ingress Protection (IEC 60529)	IP40
Radio	FCC ID: T68-FWCS, IC: 6627A-FWCS
Vibration requirements	MIL-PRF-28800F: Class 2
Drop test requirements	1 m
Temperature coefficients	Add 0.1 × specified accuracy for each degree C above 28° C (82° F) or below 18° C (64° F)
Safety compliance (IEC 61010-2-032)	CAT III 600 V

The measurement is based on AC injection method. The injected source signal is <100 mA, 1 kHz. ² Trigger level VAC: 10 mV, AAC: 10 Å





BT521 Intelligent Test Probes with integrated display

Included Accessories

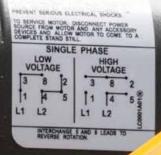
4-Wire Test Pin (set), BTL10 Basic Test Lead (set), TL175 TwistGuard™ Test Leads with Adapter, L300 Attachable LED Flashlight (2) (BT520 and BT521 only), BTL20 Intelligent Test Probe Set with Extender (no Temperature Sensor)(BT520 only), **BTL21 Intelligent Test Probe Set with** Extender and Temperature Sensor (BT521 only), i410 AC/DC Current Clamp (BT521 only), BP500 Lithium-ion Battery, BC500 AC Charger, Mini-USB Cable, Shoulder Strap, Belt Strap, Magnetic Hanging Strap, FlukeView™ Battery Management Software, Soft Carrying Case, Spare Fuses (2), Battery Tags (BT520 and BT521 only).

Ordering Information

FLK-BT510	Basic Battery
	Analyzer
FLK-BT520	Battery Analyzer
FLK-BT521	Advanced Battery Analyzer
FLK-BT520 ANG	Battery Analyzer with Angled Probes
FLK-BT521 ANG	Battery Analyzer with Angled Probes

Electrical Testers

The Fluke line of electrical testers and voltage detectors are designed for use in every application and in nearly any environment. From non-contact voltage detectors and voltage testers with continuity detectors, to open-jaw current testers and open fork testers with FieldSense[™] technology (for capturing voltage and current measurements without test leads), these testers are accurate, safe and easy to use. You'll also find motor phase rotation testers and voltage meters that are safer than solenoid testers.



Fluke T5 Series Electrical Testers



Fluke T5 Series Voltage, **Continuity and Current Testers**

The Fluke T5 Electrical Testers let you check voltage, continuity and current with one compact tool. OpenJaw[™] current lets you check current up to 100 A - without breaking the circuit. Its tough test leads stow neatly in the back of the tester, making it easy to tote the T5 in your tool pouch. Detachable SlimReach[™] test probes are customised for national electrical standards. The test leads accept optional accessories such as clips and specialty probes. Available in 600 V and 1000 V models.

- Excellent front-line troubleshooting and measurement tool
- Available in 600 V and 1000 V models
- Digital display
- OpenJaw[™] current measurement •
- Rotary switch selects volts, amps and ohms functions
- Heavy-duty test leads ٠
- Two year warranty





Functions	T5-1000	T5-600
Measure AC/DC voltage	1000 V	600 V
Measure AC current (average)	100 A	100 A
Measure continuity	< 25 Ω	< 25 Ω
Measure resistance	1000 Ω	1000 Ω
DC polarity indicator	Yes	Yes
Detachable probe tips with optional probe tips styles	Yes	Yes
Safety rating	1000 V Overvoltage CAT III	600 V Overvoltage CAT III

*Voltage levels will vary depending on country of intended use.

Fluke VoltAlert[™] Family

VoltAlert[™] AC non-contact voltage testers from Fluke are easy to use - just place the tip to a terminal strip, outlet, or supply cord. When the tip glows red, you know there's voltage present.

Fluke now offers three models of noncontact voltage detectors, making sure you have the right tool for the job.

Two year warranty.



Functions	1AC-A1-II	2AC	LVD2	LVD1A
Voltage	90 V AC to 1000 V AC	90 V AC to 900 V AC	90 V AC to 900 V AC	40 V AC to 300 V AC
CAT Rating	CAT IV 1000 V	CAT IV 1000 V	CAT IV 600 V	-
Voltage Detection	•	•	•	•
Batteries Included	•	•	•	•
On/Off Button	•	always on	•	•
Voltbeat™	•	-	-	-
Audible/Silent	•	-	-	-
LED Flashlight	-	-	•	•

Included Accessories

Fluke T5-600 & T5-1000: Detachable Probes and Instruction Sheet.

Ordering 1	Information
FLUKE T5-600	Electrical Tester
FLUKE T5-1000	Electrical Tester
FLUKE 1AC-A1-II	VoltAlert™ Voltage Detector
FLUKE LVD2	Volt Light

Fluke T6 Series Electrical Testers with FieldSense™





Measure voltage without test leads

Measure voltage up to 1000 V AC through the open fork, without test lead contact to live voltage.⁺ Without opening covers or removing wire nuts; on wires up to 4/0 (120 mm²), carrying as much as 200 A. It will change your job.

- FieldSense[™] technology for AC voltage, current and frequency measurement without making electrical contact to live voltage⁺
- Simultaneous voltage and current display (T6-1000 & T6-1000 PR0) – shows all power supply measurements at a glance for efficient troubleshooting
- T6-1000 PRO features Visual Continuity[™] the screen automatically lights up green for continuity, perfect when it's too loud to hear the beeper
- Works with wire up to AWG 4/0 (17.8 mm jaw opening)
- HOLD button temporarily freezes the reading for easy viewing
- Easy to read display with backlight
- Accepts optional Fluke TPAK Magnetic Meter Hanger for convenient operation
- Two-year warranty

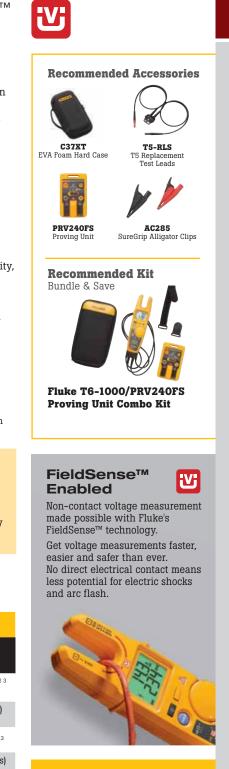
*Voltage measurement requires capacitive path to ground, provided through user in most applications. Ground connection via test lead may be required in some situations.

The Full Package

The Fluke T6-1000 PRO Electrical Tester comes with a belt holster and black alligator clip as standard. Measure wires up to AWG 4/0 (120 mm²), carrying as much as 200 A and 1000 V AC, even with gloves on.

Specifications		T6-600	T6-1000/ T6-1000 PRO		
Function	Requires Test Leads	Range	Range	Resolution	Accuracy ¹
FieldSense™ AC voltage	No	600 V	1000 V	1 V	±(3% + 3 counts) ^{2 3} 45 Hz - 66 Hz
FieldSense™ AC current	No	200.0 A	200.0 A	0.1 A	±(3% + 3 counts) 45 Hz - 66 Hz
FieldSense™ frequency (Hz)	No		45 Hz – 66 Hz	1 Hz	$\pm (1\% + 2 \text{ counts})^3$
Volts AC	Yes	600 V	1000 V	1 V	±(1.5% + 2 counts) 45 Hz - 66 Hz
Volts DC	Yes	600 V	1000 V	1 V	±(1% + 2 counts)
Resistance	Yes	2000 Ω	2000 Ω	1Ω	±(1% + 2 counts)
	Yes		20.00 kΩ	0.01 kΩ	±(1% + 2 counts)
	Yes		100.0 kΩ	0.1 kΩ	±(1% + 2 counts)
Visual Continuity:		No	T6-1000: No T6-1000 PRO: Yes		
Audible Continuity:		Yes	Yes		
Safety Compliance (IEC 61010-2-032)		CAT III 600 V	CAT III 1000 V CAT IV 600 V		
Accessories Included		No	T6-1000: No T6-1000 PRO: Yes		

Accuracy¹: ±{ [% of reading] + [number of least significant digits]). Accuracy is specified for 1 year after calibration, at 18° C to 28° C (64°F to 82°F) with relative humidity to 90%. AC conversions are ac-coupled, RMS responding. Accuracy¹²: Add 3% without an external ground connection. External ground connection required for user wearing insulated gloves, standing on an insulated ladder and otherwise insulated from earth ground. Accuracy³: FieldSense[™] specified from 16V to 100% of range.



FLUKE ®

Electrical Testers

Included Accessories

Attached Test Leads with removable 4 mm Probe Cap and User Documentation.

Ordering Information

T6-600	Electrical Tester
T6-1000	Electrical Tester
T6-1000 PRO	PRO Electrical Tester
T6-600/	T6-600 Tester,
62MAX+/1AC	62MAX+ & 1AC-II Kit
T6-HT6-1AC	T6-1000 Tester, H-T6
KIT	Holster & 1AC Kit
T6-1000/	T6-1000 & PRV240FS
PRV240FS	Proving Unit Kit

Electrical Testers

Fluke ST240+ RCD Socket Tester with Beeper





Fluke ST240+



Quickly check for common wiring faults and RCD operation

- Simple operation Plug into a socket to quickly verify correct wiring or identify common wiring problems in both standard and RCD outlets with the bright, easy-to-see LED lights
- Know more faster with the handy chart quickly identify one of six wiring conditions for the outlet
- Verify RCD outlets with an integrated RCD test, you can feel secure knowing that your RCD equipped outlets are functioning properly
- Two year warranty

Fluke ST240+ Socket Tester with RCD

The Fluke ST240+ RCD Socket Tester checks that each wire in the outlet is properly connected to the building's electrical system. Via the bright LEDs and included chart, you can quickly and easily verify the wiring of an outlet. Being able to identify several common wiring errors, including reversed live and neutral wires and an Earth fault, the Fluke ST240+ will give you confidence on your next job.

Audible alert helps you work faster and safer

The Fluke ST240+ also gives you a unique audible alert anytime voltage is detected. Save time when trying to identify which circuit breaker is connected to which outlet. Just plug the socket tester in, walk to the circuit breaker panel, and listen for the beeper to turn off – or on – as you flip the breakers. Once it does, you've found the correct breaker. Time – and trips – saved.

When switched on, the integrated beeper can also alert you to hazardous voltage at the outlet, even if the wiring is incorrect. Working in an office, hospital or other location where you don't want to interrupt others? No problem – the beeper can be switched off.

One-button RCD tests

The included RCD test button on the Fluke ST240+ Socket Tester allows you to also test the operation of RCD outlets. With a single push, the ST240+ can verify the operation of your RCD equipped outlet. If the RCD trips as expected, perfect, you can move on. If not, it's time to take a closer look.

Fast visual identification of all 6 wiring conditions

The Fluke ST240+ has three bright, easy-to-see LED indictors. This lets you see one of six wiring scenarios at a glance:

- Correct installation
- Earth fault
- Neutral fault
- Live fault
- Live/Neutral reversed
- Live/Earth reversed

Functions	ST240+
Rated Operating Voltage	230 V ac +/-10% at 4mA
Wattage	0.92 W typical
Frequency	50 Hz
Integrated, switchable beeper	Yes, 60 db
RCD Test	Yes
Indicator Lights	1 red, 2 green LEDs
Safety Rating	300 V CAT II

Recommended Accessories



PRV240

Contact Provi

PRV240 Proving Unit See page 24



Included Accessories Instruction Sheet

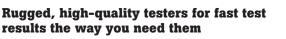
Ordering Information

ST240+ Socket Tester with LEDs, RCD Test Beeper

Contact your local distributor for price and availability. Not available in all countries.

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Fluke T Series Voltage and Continuity Testers



Fluke's family of Two-Pole Voltage Testers are built with state-of-the art measurement and safety technology. These testers offer everything you expect from Fluke and a little bit more.

- Rugged, high-quality construction is built to last. This includes a heavy duty molded case, a thicker cord with wear indicator, sturdy battery case, and well fitting and durable probe protector.
- Fast test results the way you need them, with large, easy-touse buttons, bright backlights, and clear audible and physical indicators designed for any work situation.

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Fluke T150

Fluke T90

Fluke T130

Fluke T110 T130, T150 \bigcirc

- Enhanced ergonomic design feels good in your hand, is easy to use (even with gloves on) and quick, secure probe docking.
- Compliant with regulation HSE GS 38 (tip caps) and IEC EN 61243-3: 2010
- Three year warranty





Features	T90	T110	T130	T150
Backlit LED indicator	٠	•	•	•
Backlit LCD Digital Display	-	-	LCD	LCD
Continuity test - visual results	٠	•	•	•
Continuity test - audible results	•	• with on/off	• with on/off	• with on/off
Vibratory indicator under load	-	• with on/off	• with on/off	• with on/off
Display Hold	-	-	•	•
Voltage Test	•	•	•	•
Indication of polarity	•	•	•	•
Resistance measurement	-	-	-	•
Switchable Load	-	•	•	•
Single pole test for phase detection	•	•	•	•
Rotary field indicator	-	•	•	•
Probe tip protection	•	•	•	•
Voltage display with discharged batteries	٠	•	•	•
Electrical torch function		•	•	•
Wear indicator test lead wire	٠	•	•	•

Specifications	T90	T110	T130	T150
Voltage AC/DC	12 V -	690 V	6 V	- 690 V
Continuity		0 -	400 kΩ	
Frequency	0 - 60 Hz		0 - 400 Hz	
Phase rotation	-		100 V - 690 ⁻	V
Resistance measurement		-		Up to 1999 Ω
Response time (LED ladders)	< 0.1 s			
200 k Ω input impedance	Current draw 3,5 mA @ 690 V, Current draw 1,15 mA @ 230 V			
7 k Ω input impedance (with load buttons pressed)	- current draw 30 mA @ 230 V			
Safety rating	CAT II 690 V CAT III 600 V CAT III 600 V			
IP rating	IP54 IP64			
Battery type	Alkaline supplied. usable with 1.2 V NiCD or NiMH rechargeable batteries			
Size (HxWxD)		100 mm × 2	50 mm × 125 mn	n
Weight	1.3 kg			

Included Accessories

Two AA Batteries and Instruction Sheet.

Ordering Information

Ordering ini	ormation
FLUKE-T90	Voltage/Continuity Tester
FLUKE-T110	Voltage/Continuity Tester with Switchable Load
FLUKE-T130	Voltage/Continuity Tester with LCD Switchable Load
FLUKE-T150	Voltage/Continuity Tester with LCD, OHMS, Switchable Load

Contact your local distributor for price and availability.





Recommended Accessories

H15 Holster Continuity Tester Ho See page 171

Holster

C150 Soft Case See page 169

Fluke 9040 and 9062 Phase Rotation Indicators

Take the guesswork out of phase/motor rotation measurements



Fluke 9040 Phase Rotation Indicator

The Fluke 9040 is effective for measuring phase rotation in all areas where three-phase supplies are used to feed motors, drives and electrical systems. The Fluke 9040 is a rotary field indicator and can provide clear indication of the 3 phase via an LCD display and the phase rotation direction to determine correct connections. It allows rapid determination of phase sequence and has a voltage (up to 700 V) and frequency range suitable for commercial and industrial applications. Test probes supplied with the instrument have a variable clamping range for safe contact, especially in industrial sockets.

- 3 phase indication
- Indication of phase rotation
- Clear LCD display
- No battery required
- Two year warranty

Fluke 9062 Motor and Phase Rotation Indicator

The unique Fluke 9062 provides rotary field and motor rotation indication with the benefits of contactless detection.

- 3 phase indication
- Indication of phase rotation
- Indication of motor rotation direction
- Contact free determination of the rotation direction of running motors
- · Two year warranty

Made for commercial and industrial environments, the Fluke 9062 provides rapid indication of 3 phase rotation using test leads supplied or can be used to determine motor rotation on synchronous and asynchronous 3 phase motors. The contactless detection is ideal for use on motors where the shaft is not visible. Test probes supplied with the instrument have a variable clamping range for safe contact, especially in industrial sockets.

Specifications	9040	9062
Voltage range	40 - 700 V	Up to 400 V
Phase display	-	120 - 400 V AC
Frequency range	15 - 400 Hz	2-400 Hz
Operating time	Continuous	Continuous
Size (HxWxD)	124 mm × 61 mm × 27 mm	124 mm × 61 mm × 27 mm
Power supply	from unit under test	1 × 9 V
Weight	0.20 kg	0.15 kg





Determine the presence of phase sequence of multiphase electrical supplies.



Determine the rotation of running motors by placing the instrument on the motor casing.



Check the correct rotation of motors prior to connection.

Included Accessories Fluke 9040:

Alligator Clips - Black (3), Standard Test Probes - Black (3), Flexible Test Probes - Black (3), User Manual.

Fluke 9062:

Alligator Clips - Black (3), Flexible Test Probes - Black (3), Test Leads - Black (3), 9V Battery, User Manual.

Ordering Information

FLUKE-9040 Phase Rotation Indicator

FLUKE-9062 Motor and Phase Rotation Indicator

Fluke 2042 Cable Locator





The multipurpose solutions to cable location

The Fluke 2042 is a professional general purpose cable locator. It is ideal for tracing cables in walls and underground, locating fuses/breakers on final circuits and locating interruptions and short-circuits in cables and electrical floor heating systems.

It can also be used for tracing metallic water and heating pipes. The unit is supplied as a complete kit comprising of a transmitter and receiver in a purposemade carry case. The receiver also incorporates a torch function for working in dimly lit locations.

- For all applications (live or dead cables) without additional instruments
- Set includes a transmitter and a receiver
- Proven digitally coded sender signal guarantees clear signal identification
- Transmitter with LCD-display for transmitting level, transmitting code and external voltage
- Receiver with a backlight LCD-display for level of receiving signal, code of receiving signal and live voltage indication
- · Automatic or manual adjustment of receiving signal sensitivity
- Switchable acoustic receiving signal
- Auto-Power-Off
- · Additional torch lamp function for working in dark environments
- Additional transmitters are available for extension or to distinguish between several signals
- Two year warranty

Specifications	Transmitter	Receiver	
Voltage Measurement Range	12 V, 50 V, 120 V, 230 V, 400 V		
Frequency Range	060 Hz		
Output signal	125 kHz		
Voltage	Up to 400 V AC/DC		
Main voltage detection		00.4m	
Operating Temperature	O to 40°C	O to 40°C	
Storage Temperature	-20°C to +60°C	-20°C to +60°C	
Humidity (Without Condensation)	Max. 80% relative	Max. 80% relative	
Operating Altitude	Up to 2000 m	Up to 2000 m	
Electrical Safety	EN 61010-1		
Overvoltage Category	Cat. III	I 300 V	
Voltage Test	•	•	
Indication of polarity	•	•	
Resistance measurement			
Batteries	6 pc Batteries 1.5 V	1 pc Battery 9 V	
Size (HxWxD)	190 mm × 85 mm × 50 mm	250 mm × 65 mm × 45 mm	
Weight	0.45 kg	0.36 kg	

Recommended Accessories





Location of fuses/breakers and assignment to circuits



Precise location of cable interruptions with additional transmitter

Included Accessories

TL27 Heavy Duty Test Lead Set (2), TP74 Lantern Tip Test Probe Set, AC285 Alligator Clip Set, Soft Carrying Case, Hard Case.

Ordering Information

FLUKE-2042 Cable Locator (Transmitter & Receiver)

FLUKE-2042T Cable Locator Transmitter

Contact your local distributor for price and availability.

Electrical Testers

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FLUKE ®

Fluke 417D and 424D Laser Distance Meters



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Fluke 424D

Professional grade distance measuring tools that are fast, easy to use and fit in your pocket

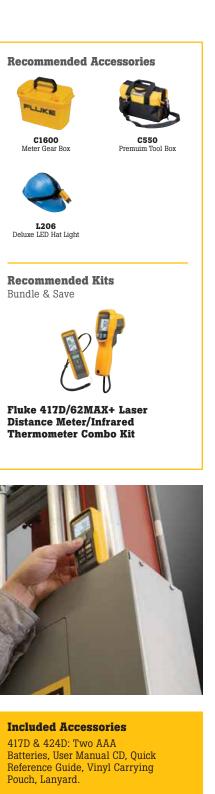
Measure farther, with greater accuracy, in more situations.

- Measure with greater accuracy: Up to ± 1 mm, no scales to interpret or misread (424D)
- Do the work of two: Instead of holding the tape, your helper can do other jobs
- The most advanced 2 laser technology for distance measurement
- Speed up the job: Easily measure hard-to-access areas, like high ceilings, without climbing a ladder
- Keep it on the level: New inclination sensor on the Fluke 424D helps with leveling, height tracking, measuring around obstacles
- Reduce estimating errors, let the meters do the math: Find area and volume. Easily add and subtract distances. Use Pythagoras calculations for height
- Improved battery life: Automatic shut-off feature
- · Improved visibility with backlit screen
- Three-year warranty (417D & 424D)

The Fluke 424D Laser Distance Meter offers:

- · Improved visibility with backlit screen
- Tripod mode allows you to mount to a tripod for measuring long distances
- Stake out function
- Enhanced Pythagoras calculation for determining distance indirectly from three other measurements
- Audible keypad feedback
- · Storage of the last twenty measurements for quick recall of distance
- · Strong environmental protection with IP54 (water spray and dust proof) sealing
- · Inclination sensor for taking measurements in hard to reach areas
- Compass provides a "heading" for distance measurement
- Automated end-piece correction: when measuring from an edge or corner, a built-in sensor detects the position of this bracket and automatically changes the reference point

Key Features	417D	424D
Maximum measurement distance	40 m (131,23 ft)	100 m (328.08 ft)
Accuracy	±2 mm (0.078 in)	±1 mm (0.039 in)
Battery life (no. of measurements)	3000	5000
Area measurement	•	•
Volume measurement		•
Pythagoras calculations		•
Plus and minus calculations		•
Measurement storage		20 sets
Backlight		•
Minimum/Maximum		•
Audible keypad feedback		•
Tripod mount		•
Corner angle measurement		•
Ingress Protection (IEC 60529)	IP54	IP54
Compass		•
Inclination sensor		•
Automated end-piece correction		•
Laser Class	2	2



Ordering Information

FLUKE-417D	Laser Distance Meter, 40 m
FLUKE-424D	Laser Distance Meter, 100 m
FLUKE-417D 62 MAX+ KIT	Laser Distance Meter/Infrared Thermometer Combo Kit

Infrared Thermometers

Don't get burned by a motor, or have hot and cold air blowing in your face from your HVAC system or blowers while taking measurements. You can trust Fluke Infrared Thermometers to get accurate temperature readings from a safe distance.

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FLUKE VT08 VISUAL IR THERMOMETER

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28.3°C

Infrared Thermometer Selection Guide



Recommended Applications

99 points

99 points

20 points

points

66

USB

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USB 2.0

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Plant/Facilities Maintenance Preventive and Predictive Maintenance **Energy Audits** Vehicle and Fleet Maintenance Programs Faulty Electrical/Circuit Connections Petrochemical/Hazardous Locations

Motors, Pumps and Bearings



Conditioning/Refrigeration Leaky Ductwork Thermostats Temperature Balancing Steam Distribution Systems Compressor Lines



Manufacturing Processes Molding Temperature Measurement Printing Paper and Converting Thermoforming Plastics Electronics Paint Curing/Drying Food Chemical Pharmaceutical



Safety and protection Fire Localization Hazardous Materials Faulty Ballasts Search and Rescue Smoldering Embers Equipment Maintenance

Software compatible

PC interface

Fluke 60 Series Infrared Thermometers



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Fluke 62 MAX, 62 MAX+ and 64 MAX IR Thermometers

The Fluke 62 MAX, 62 MAX+ and new 64 MAX IR Thermometers have the precision you need to do your job accurately and will not break the budget. Designed and tested to survive a 3-meter drop, you can count on these lightweight, compact infrared thermometers to work when you need them to work-even in the harshest environments and when you're not able to be there.

- Precise laser technology for more accurate and repeatable measurements
- Temperature accuracy of up to $\ge 0^{\circ}$ C: $\pm 1^{\circ}$ C or $\pm 1\% \ge$ of reading whichever is greater with 20:1 distance to spot ratio (64 MAX)
- Flashlight (64 MAX) and large, easy-to-read backlit LCD display for easy viewing even in dark environment
- IP54 rated for extra protection against airborne contaminants
- Get your tool to work when you can't—set time and desired interval between measurements and Auto Capture will capture spot temperatures unattended (64 MAX)
- 99 data point logging (64 MAX)
- Displays the minimum, maximum or average temperature, or the difference between two measurements
- Hi and Lo alarms for rapid display of measurements outside set limits
- Dual rotating lasers to help you identify area to be measured (62 MAX+)
- Small and lightweight, fits easily into your tool box
- Three-year warranty

Specifications	62 MAX	62 MAX+	64 MAX	
Temperature range	-30° C to 500° C (-22° F to 932° F)	-30° C to 650° C (-22° F to 1,202° F)	- 30° C to 600° C (-22° F to 1,112° F)	
Accuracy	±1.5° C or ±1.5% of reading, whichever is greater	±1.0° C or ±1.0% of reading, whichever is greater	±1.0° C or ±1.0% of reading, whichever is greater	
	-10° C to 0° C: ±2.0 -30° C to -10° C: ±3.0 (14° F to 32° F: ±2.0 -22° F to 14° C: ±3.0)	-10° C to 0° C: ±2.0 -30° C to -10° C: ±3.0 (14° F to 32° F: ±2.0 -22° F to 14° C: ±3.0)	-10° C to 0° C: ±2.0 -30° C to -10° C: ±3.0 (14° F to 32° F: ±2.0 -22° F to 14° C: ±3.0)	
Emissivity		0.10 to 1.00		
Optical resolution	10:1 (calculated at 90% energy)	12:1 (calculated at 90% energy)	20:1 (calculated at 90% energy)	
Compliance		IEC 61010-1: 2001		
Laser safety	FDA and IEC 60825-1 Class 2			



Recommended Accessory



Tripod Mounting Accessory for 64 MAX

Recommended Kits Bundle & Save

Fluke 116/62 MAX+ Technician's Combo Kit Fluke T6-600/62 MAX+/1AC-II Infrared Thermometer and Electrical Tester Kit Fluke 417D/62MAX+ Laser Distance Meter/Infrared Thermometer Combo Kit Fluke 62MAX+/323/1AC Combo Kit

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Fluke 64 MAX, 62 MAX and 62 MAX+: Two AA Batteries and Instruction Sheet.

Ordering Information

FLUKE-64 MAX	Single Laser IR Thermometer, 10:1 Spot
FLUKE-62 MAX+	Dual Laser IR Thermometer, 12:1 Spot
FLUKE 62 MAX+/323/1AC	IR Thermometer Clamp Meter and Voltage Detector Kit
FLUKE-64 MAX	IR Thermometer
FLUKE-T6-600/ 62MAX+/1AC	T6-600 Tester, 62MAX+ and 1AC-II Combo Kit
1587KIT/62 MAX+	2-in-1 ADV Elec Kit with 62MAX+ i400 AC Current

Fluke 560 and 570 Series Infrared Thermometers



Fluke 561, 566 and 568 Infrared and Contact Thermometers

With a straight-forward user interface and soft-key menus, the Fluke 561, 566 and 568 make even complex measurements easy. With just a few pushes of a button you can easily adjust emissivity, start data logging, or turn on and off alarms. With a rugged, easy-to-use design, the Fluke 561, 566 and 568 can stand up to tough industrial, electrical, and mechanical environments.

- Confidently measure more surfaces, with adjustable emissivity and built-in materials table
- Log and download measurements for reporting (568)
- Audible and visual alarms
- MIN/MAX/DIF functions
- Includes KTC bead probe and compatible with any K-type thermocouple
- Two-year warranty

Specifications	561	566	568/568 Ex	
Infrared temperature range	-40° C to 535° C (-40 to 995° F) (-40 to 1,202° F)		-40° C to 800° C (-40 to 1,472° F)	
Accuracy		Greater of ±1% or ±1° C		
Distance to Spot (D:S)	12:1	30:1	50:1	
Sighting	Laser point			
Typical distance to target	Up to 2.5 m (8.2 ft)	Up to 4.5 m (14.76 ft)	Up to 7.5 m (24.6 ft)	
Contact temperature range	-40° C to 550° C (-40° F to 1,022° F)	-270° C to 1372° C (-454° F to 2,501.6° F)		
Number of on-board memory locations	_	20	99	
PC download and software	—	— FlukeView™ Form		
Material type adjustment (emissivity)	Hi/Med/Lo	Material table or 0.1 to 1.00 by 0.01		
High and low alarms	-	High and low alarms		



Fluke 572-2

Fluke 572-2 High Temperature Infrared Thermometer

The Fluke 572-2 Infrared Thermometer is the one product you can use in high temperature industrial environments all around the world. This is the best choice for when you need accurate results for high temperature readings from a long distance.

- Measure -30° C to 900° C (-22° F to 1,652° F)
- 60:1 distance to spot ratio with dual laser sighting for fast, accurate targeting
- Last reading Hold (20 seconds)
- High and low temperature alarm
- Data storage and review (99 data sets)
- Compatible with standard mini-connector K-type thermocouples, including ones you already own
- Current Temperature plus MAX, MIN, DIF, AVG displays
- Adjustable emissivity and predefined emissivity table
- FlukeView[™] Forms documenting software
- Two-year warranty

Specifications	572-2
Infrared temperature range	-30° C to 900° C (-22° F to 1,652° F)
Infrared accuracy (calibration geometry with ambient temperature 23° C $\pm 2^\circ$ C)	≥0° C: ±1° C or ±1% of the reading, whichever is greater ≥-10° C (14° F) to <0° C (32° F): ±2° C (3.6° F) <-10° C (14° F): ±3° C (5.4° F)
Distance:Spot	60:1
Laser sighting	Offset dual laser, output <1 mW
Hi/Low alarms	Audible and two-color visual
Min/Max/Avg/Dif	Yes
Data storage	99 points
K-type thermocouple input temperature range	-270° C to 1372° C (-454° F to 2,501.6° F)
K-type thermocouple input accuracy (with ambient temperature 23° C \pm 2° C)	< -40° C: $\pm (1^{\circ}$ C + 0.2°/1° C) \geq -40° C: $\pm 1\%$ or 1° C, whichever is greater

Specialty Model Fluke 568Ex Intrinsically Safe Infrared Thermometer



- Measure -40° C to 800° C (-40° F to 1,472° F)
- 50:1 distance to spot ratio with dual laser sighting for fast, accurate targeting
- Display resolution 0.1° C of reading
- Adjustable emissivity and predefined emissivity table
- Safety Certification ATEX/IECEx for Class 1, Div 1, Div 2, Zone 1 and 2 hazardous environments

Recommended Accessories



Included Accessories

560 Series: Thermocouple K-type Velcro Pipe Probe (561 only), K-type Thermocouple Bead Probe (566 & 568 only), FlukeView™ Forms Software (568 only), USB Cable (568 only), Hard Carrying Case, Two AA Batteries and User Manual with Measurement Guide.

572-2: K-type Thermocouple Bead Probe, USB 2.0 Computer Interface Cable, FlukeView[™] Forms Documenting Software, Hard Carrying Case, Getting Started Guide and User Manual (CD).

Ordering Information

FLK-572-2	IR Thermometer
FLUKE-561	HVACPro Infrared Thermometer
FLUKE-566	IR Thermometer
FLUKE-568	IR Thermometer
FLUKE-568 Ex	Intrinsically Safe IR Thermometer



Fluke 50 Series II Thermometers

Lab accuracy in a field thermometer



Fluke 53 II B



The Fluke 50 Series II Contact Thermometers offer fast response and laboratory accuracy in a rugged handheld test tool.

- Laboratory accuracy: ±(0.05% + 0.3° C)
- Large backlit dual display
- Min/Max/Avg
- Electronic offset function maximizes overall accuracy
- · Supports a wide range of thermocouple types
- Temperatures displayed in° C,°F, or Kelvin (K)
- Three-year warranty

Powerful data logging capabilities

The Fluke 53 II B and 54 II B can log up to 500 points of data to internal memory.

- User-adjustable recording intervals
- Real-time clock captures the exact event time
- Recall function lets logged data be easily reviewed
- Download data to optional FlukeView[™] PC software



Fluke 52 II



Recommended Accessories





Fluke 80PK-27

Fluke 80PK-10 Pipe Clamp Temperature Probe

Specifications	51 II	52 II	53 II B	54 II B	
Thermocouple types	J,K,T,E	J,K,T,E	J,K,T,E,N,R,S	J,K,T,E,N,R,S	
Number of inputs	Single	Dual	Single	Dual	
Time stamp	Relative Time	Relative Time	Time of Day	Time of Day	
Dual display with backlight	•	•	•	•	
Min/Max/Avg recording	•	•	•	•	
(T_1-T_2) True differential	-	•	-	•	
Data logging up to 500 points	-	-	•	•	
IR data port for interface to PC	-	-	•	•	
Compatible with FlukeView [™] Software	-	-	٠	•	
Battery life	1000 hours typical, AA				
Size (HxWxD)	173 mm × 86 mm × 38 mm				
Weight		0.4	kg		

Temperature range and accuracy	
J-type Thermocouples	-210° C to 1200° C (-346° F to 2,192° F)
K-type Thermocouples	-200° C to 1372° C (-328° F to 2,501.6° F)
T-type Thermocouples	-250° C to 400° C (-418° F to 752° F)
E-type Thermocouples	-150° C to 1000° C (-238° F to 1,832° F)
N-type** Thermocouples	-200° C to 1300° C (-328° F to 2,372° F)
R** and S-type** Thermocouples	0° C to 1767° C (32° F to 3,212.6° F)
Temperature accuracy above -100° C:	
J, K, T, E, and N-type**	±[0.05% + 0.3° C]
R** and S-type**	±[0.05% + 0.4° C]
Temperature accuracy below -100° C:	
J, K, E, and N-types	±[0.20% + 0.3° C]
Т-туре	±[0.50% + 0.3° C]

Included Accessories

Fluke 50 Series Thermometers: Impact Absorbing Holster, Two Bead Probe Thermocouples 80PK-1 (54 and 52 only), One Bead Probe Thermocouple, 80PK-1 (51 and 53 only).

Ordering Information

FLUKE 51 II	Single Input Digital Thermometer
FLUKE 52 II	Dual Input Digital Thermometer
FLUKE 53 II B	Single Input Digital Thermometer with Data Logging
FLUKE 54 II B	Dual Input Digital Thermometer with Data Logging

Contact your local distributor for price and availability.

Infrared Thermometers 61

Industrial Imaging

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Through the latest advancements in technology— Fluke thermal imaging, video borescopes, and acoustic imaging tools help expedite inspections and make crucial maintenance decisions easier.

- Fluke Thermal Imagers offer the highest resolution necessary to identify areas of concern for non-invasive preventive maintenance inspection.
- Fluke Video Borescopes offer industrial tough solution for inspecting machinery with difficult to reach spaces.
- Acoustic Imagers provide leading edge technology taking ultrasonic leak detection to a new level of efficiency and accuracy.

Infrared Camera Selection Guide

TiX580			Yes, in software.	-20 °C to 1,000 °C					eld of view		distance on screen						
TiX501		640 × 480 (307,200 pixels)	I	-20 °C to 650 °C	0.93 mrad, D:S 1065:1	SOmK			Yes, focused throughout the field of view	every. Single. Time	mages and displays			l sharing		oattery pack	
Ti480 PRO		640 (307,20	Yes, in software.	-20 °C to 1,000 °C	0.93 mrad,		$34^{\circ} H \times 24^{\circ} V$	15 cm	Yes, focus	Yes, for consistently in-focus images. Every. Single. Time	Yes, calculates distance to the target for precisely focused images and displays distance on screen	Yes	ere available)	Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect [™] app for saving and sharing	ed image	2-3 hours continuous use per battery pack	
Ti401 PRO				-20° C to 650° C		75mK				Yes, for consistent	ance to the target fo		Yes, to PC, iPhone [™] and iPad™ (iOS 4s and later), Android [™] 4.3 and up, and WiFi to LAN (where available)	o the Fluke Connect ¹	continuous 0% to 100% . Adds the context of the visible details to your infrared image	2-3 hours c	
Ti300+		320 × 240 (110,592 pixels)		-20° C to	1.86 mrad, D:S 532:1	751					Yes, calculates dist		lroid™ 4.3 and up, a	omatically upload to	ntext of the visible d		(standard)
TiS75+		384 × 288 (110,592 pixels)		-20° C to 550° C	1.91 mrad	40mK	42° H × 30° V	50 cm	• • •	Manual Focus		Manual Focus	S 4s and later), And	nd images taken aut	100%. Adds the co	3.5 hours continuous (without Wifi)	Two years (standard)
TiS60+		320 × 240 (76,800 pixels)	I	-20° C to 400° C	1.86 mrad, D:S 532:1	45mK	34.1° H × 25.6° V	46 cm	I	Fixed Focus		Fixed Focus	one [™] and iPad [™] (iO	your smartphone, ar		4 hours continuous use per battery pack	
TiS55+		256 × 192 (49,152 pixels)		-20° C to 550° C	1.91 mrad	40mK	28° H × 20° V	50 cm		Manual Focus	I	Manual Focus	Yes, to PC, iPh	nect your camera to	AutoBlend	3.5 hours continuous (without Wifi)	
TiS20+/ Ti20+ MAX		< 90 pixels)		.50° C for TiS20+)	0:S 130:1	JK	38° V	m		ocus		ocus		Yes*, con		≥ 5 hours continuous (without WiFi)	
PTi120		120 × 90 (10,800 pixels)		-20° C to 400° C (150° C for TiS20+)	7.6 mrad, D:S 130:1	60mK	50° H × 38° V	50 cm		Fixed Focus		Fixed Focus				≥ 2 hours continuous (without WiFi)	
	Key Features	Infrared Resolution	SuperResolution	Temperature Range	IFOV with Standard Lens (spatial resolution)	Thermal Sensitivity	Field of View	Minimum Focus Distance	MultiSharp Focus	LaserSharp Auto Focus	Laser Distance Meter	Advanced Manual Focus	Wireless Connectivity	Fluke Connect [™] App Compatible	IR-Fusion Technology	Battery Life	Warranty

Industrial Imaging

Fluke Thermal Imaging Software





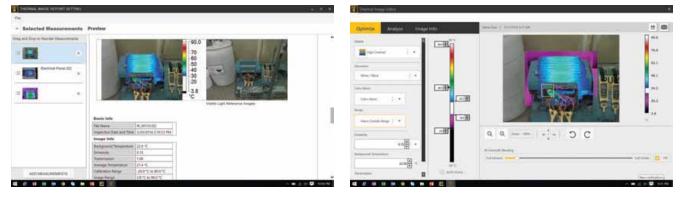
Fluke Connect[™] Desktop for Thermal Imaging

Get the most out of your thermography program. Create professional inspection reports in minutes while efficiently capturing full radiometric data to support preventive and predictive maintenance programs with the new Fluke Connect ${}^{\rm TM}$ Desktop software.

- Easily edit and optimize images to visualize equipment status
- Combine infrared and visible images for simpler analysis using picture-in-picture mode and image blending
- Create detailed reports in minutes and save customized report templates
- Connect a camera to your computer wirelessly with the built in Fluke Camera WiFi •
- Never lose your data automatically save all your thermal images and reports in the Fluke Connect[™] cloud storage, accessible anytime on PC or Mobile App
- Organize images and easily search by asset, severity, and image title
- Enhance inspection credibility by incorporating live readings of energized circuits and operational equipment from Fluke Connect™ enabled test tool into your infrared image
- Share images immediately with team members with the Fluke Connect ${}^{\scriptscriptstyle\rm T\!M}$ Mobile App

Fluke Connect[™] Desktop has all the same features as SmartView and more, with intuitive navigation interface and the advantage of Fluke Connect™ cloud storage.

Download Fluke Connect[™] Desktop FREE from the Fluke website and the Fluke Connect[™] Mobile app from the mobile IOS or Android app store.



Get more out of your thermal inspections with Fluke Connect™ Wireless Modules

You can connect up to 5 Fluke Connect™ Wireless modules with a Fluke Infrared Camera, whileincorporating live readings on the infrared image. The table below highlights a list of Fluke Connect™ enabled tools that are compatible with Fluke Infrared Cameras.

Fluke Connect[™] Compatibility Guide

Fluke Connect™ Tools	Fluke Connect™ App	3000 FC	902 FC	376/375 /374 FC	a3000 FC a3001 FC	a3002 FC	a3003 FC a3004 FC	v3000 FC	v3001 FC	t3000 FC
Fluke Connect™ App – iOS and Android™	•	٠	٠	•	٠	•	٠	•	•	•
TiX580 Infrared Camera	•	•	٠	•	٠	•	٠	•	•	•
Ti480PRO Infrared Camera	•	•	٠	•	٠	•	٠	•	•	•
PTi120/TiSxx Series Infrared Cameras	•	•	•	•	•	•	•	•	•	•





Get the FREE Fluke Connect[™] App!

Download the free Fluke Connect[™] Desktop from the Fluke website and the Fluke Connect[™] Mobile app from the mobile IOS or Android app store.





Fluke PTi120 Pocket Infrared Camera







Fluke PTi120



Infrared troubleshooting power you need, right in your pocket

A fully radiometric thermal imager with a 3.5" LCD touchscreen that offers IR-Fusion™ to blend a visible light image with an infrared image to easily locate problems. The PTi120 has built in WiFi that allows you to connect your camera to the Fluke Connect™ App and share images remotely with your team. Compact and easy to use, the Fluke PTi120 should be your first line of defense with maintenance work.

- 120 × 90 infrared resolution (10,800 pixels)
- -20° C to 400° C (-4° F to 752° F) temperature measurement range
- 8.89 cm (3.5 in) LCD touchscreen display with intuitive interface for easy troubleshooting
- 1 m (3.28 ft) drop tested
- IP54 enclosure rating
- Touchscreen IR-Fusion blends a visible light image with an infrared image, simply slide your finger across the screen to adjust
- Two-year warranty





Key features	PTi120
IFOV (Spatial Resolution)	7.6 mrad
Infrared Resolution	120 × 90
Field of View	50° H × 38° V
Frame Rate	9 Hz
Distance to Spot	130:1
Temperature Measurement Range (not calibrated below -10° C)	-20° C to 400° C (-4° F to 752° F)
Thermal Sensitivity	60 mK
Focus system	Fixed focus, minimum focus distance 22.8 cm (8.97 in)
Center-point temperature	Yes
Spot temperature	Hot and cold spot markers
Battery	≥2 hours (without WiFi), can be charged via USB cable
Fluke Connect™ Instant Upload	Yes, connect your camera to your building's WiFi network, and images taken automatically upload to the Fluke Connect™ mobile App for storage and viewing on your PC.



Get the FREE Fluke Connect™ App!

By using the Fluke Connect[™] App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.



Google Play

Included Accessories

Soft Case, Lanyard and USB cable.

Ordering Information

FLK-PTI120 9HZ 400C Fluke Pocket Infrared Camera

Contact your local distributor for price and availability.

Industrial Imaging

Fluke Performance Series Infrared Cameras TiS20+, TiS20+ MAX, TiS55+, TiS60+ and TiS75+



Fluke TiS75+

Easy-to-use frontline troubleshooting

Easily see potential problems with blended IR and visual images, on a large 8.89 cm (3.5 in) LCD display. Fluke Performance Series Infrared Cameras are one-handed pistol grip models that make on-site thermal inspections quicker and easier.

Manual Focus

Focus is one of the most critical aspects of a thermal image because it cannot be altered with software. Both manual and fixed focus options are available on the latest TiS55+ and TiS75+ infrared cameras, leveraging the advantages of both optical systems and making this ideal for both seasoned thermographers and users new to thermography.

- Measure up to 550° C (1,022 °F) (TiS55+ and TiS75+) to handle a wide range of applications
- Manual and fixed focus (TiS55+ and TiS75+)
- IS3 and AVI video recording (TiS75+ only)
- Dew point calculation (TiS75+ only)
- Digitally document critical information with your infrared image using IR-PhotoNotes™ or voice annotation with TiS55+, TiS60+ and TiS75+
- Make decisions in real time—wirelessly sync images from your camera, create and email reports all with your smart phone and the Fluke Connect[™] App
- Monitor battery charge and avoid unexpected loss of power with the smart battery with LED charge indicator
- Two-year warranty

Key features	TiS20+	TiS20+ MAX	TiS55+	TiS60+	TiS75+		
Infrared Resolution	120 × 90 (10,800 pixels)	120 × 90 (10,800 pixels)	256 × 192 (49,152 pixels)	320 × 240 (76,800 pixels)	384 × 288 (110,592 pixels)		
IFOV (Spatial Resolution)	7.6 mrad	7.6 mrad	1.91 mrad	1.86 mrad	1.91 mrad		
Field of View	50° H × 38° V	50° H × 38° V	28° H × 20° V	34.1° H × 25.6° V	42° H × 30° V		
Thermal Sensitivity (NETD)**	60 mK	60 mK	40 mK	45 mK	40 mK		
Temperature Measurement Range	-20° C to 150° C (-4°F to 302° F)	-20° C to 400° C (-4°F to 752° F)	-20° C to 550° C (-4°F to 1,022° F)	-20° C to 400° C (-4°F to 752° F)	-20° C to 550° C (-4°F to 1,022° F)		
Focus Systems	Fixed focus	Fixed focus	Manual focus and 1 meter focus marker	Fixed focus	Manual focus and 1 meter focus marker		
IR-Fusion AutoBlend Continuous 0% to 100%.	Yes	Yes	Yes, incl	uding Picture in Pic	ture (PIP)		
Display	8.89 cm (3.5 in) (landscape) 320 × 240 LCD touch screen	8.89 cm (3.5 in) (landscape) 320 × 240 LCD touch screen	8.89 cm (3.5 in) (landscape) 640 × 480 LCD touch screen	8.89 cm (3.5 in) (landscape) 320 × 240 LCD	8.89 cm (3.5 in) (landscape) 640 × 480 LCD touchscreen		
Colour Alarms	-	-	Yes1	Yes ¹	Yes1		
IR PhotoNotes and Voice Annotations	-	-	Yes ¹	Yes ¹	Yes ¹		
Software	Fluke Conne	Fluke Connect™ Desktop Software – full analysis and reporting software with access to the Fluke Connect™ system					

¹Refer to product datasheet for more details.





Combine with a Fluke ClirVu[™] Infrared Window to conduct thermal inspections without having to open the electrical panel.

Included Accessories

Infrared camera: AC Power Supply, Lithium-ion Smart Battery, USB Cable and Soft Transport Bag.

Fluke TiS55+ also includes 4GB Micro-SD-Card, Hand Carrying Case and adjustable Hand Strap.

Fluke TiS60+ & TiS75+ also includes 4GB Micro-SD-Card, Two-bay Smart Battery Charger, Two Lithium-ion Smart Batteries, Hand Carrying Case and adjustable Hand Strap.

Ordering Information

FLK-TIS20+ 9Hz	Infrared Camera
FLK-TIS20+ MAX	Infrared Camera
9Hz	
FLK-TIS55+ 27Hz	Infrared Camera
FLK-TIS60+ 9Hz	Infrared Camera
FLK-TIS60+ 30Hz	Infrared Camera
FLK-TIS75+ 27Hz	Infrared Camera





Fluke Professional Series Infrared Cameras Ti300+, Ti401 PRO and Ti480 PRO



Fluke Ti401 PRO

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- Get clear, accurate focus on objects near and far with MultiSharp[™] focus¹, or focus with laser speed and accuracy on your designated target with LaserSharp[®] Auto Focus. Easily navigate the menu and view images on a 3.5 inch, 640 x 480 touchscreen. Get more from your camera with an optional 2x or 4x telephoto or wide angle smart lens - no calibration required.
- Get 4x the pixel data with SuperResolution, which captures multiple images and combines them to create a 1280 x 960 image (Ti480 PRO)
- Save time-wirelessly sync images directly from your camera to the Fluke Connect® system, and attach to an asset record or work order
- Reduce the need to take notes in the field with two helpful features:
 - IR-PhotoNotes™ annotation system captures digital images of the surrounding area to reference conditions or actual location
 - Any additional details can also be saved to the file with voice annotation
- Field of view (34 °H x 24 °V) •
- View all your assets with increased accuracy using one of the four optional lenses (macro, wide-angle, 2x telephoto and 4x telephoto)
- Two year warranty





FLK-LENS/TELE2 FLK-LENS/WIDE2 Telephoto Infrared Lens Wide (2x magnification) angle Infrared Lens See page 70 See page 70



Tripod Mounting

Base Accessory







FLK-TI-SBC3B Additional Smart Battery Charger See page 148

FLK-TI-BLUETOOTH Bluetooth Handset

Key Features	Ti300+	Ti401 PRO	Ti480 PRO			
Infrared Resolution	320 x 240 (76,800 pixels)	07,200 pixels)				
SuperResolution	No	No	Yes, in software. Captures and combines 4x the data to create a 1280 x 960 image			
IFOV with Standard Lens (Spatial Resolution)	1.85 mRad, D:S 532:1	0.93 mRad, D:S 1065:1				
Field of View		34 °H x 24 °V				
Thermal Sensitivity (NETD)**	≤ 0.075 °C at 30 °C	target temp (75 mK)	≤ 0.05 °C at 30 °C target temp (50 mK)			
Temperature Measurement Range	-20 °C to +650 °C	-20 °C to +650 °C	-20 °C to +1,000 °C			
LaserSharp™ Auto Focus and Manual Focus	Yes Yes with MultiSharp™ Focus option					
Laser Distance Meter	Yes, calculates distance to the target for precisely focused images and displays distance on screen					
Optional Lenses	Wide angle, 2x and 4x telephoto, 25 micron macro					
IR-Fusion Technology	Yes, adds the context of the visible details to your infrared image					
Display	3.5 inch (landscape), 640 x 480 LCD Touch Screen					
Frame Rate		60 Hz or 9 Hz versions				
Voice Annotation		recording time per image; r Bluetooth headset available				
Text Annotation	Yes. Including standar	d shortcuts as well as user	programmable options			
Video Recording	No	No	Standard and radiometric			
Remote Control Operation	No	Remote display through Fluke Connect	Remote display and control operation through Fluke Connect			
Alarms	High temperature, l	ow temperature, and isothe	erms (within range)			
Wireless Connectivity	Fluke Connect [®] App compatible. Wireless connectivity to PC, iPhone [®] and iPad [®] (iOS 4s and later), Android [™] 4.3 and up, and WiFi to LAN					
Software	Full analysis and reporting software with access to the Fluke $Connect^{\scriptscriptstyle \otimes}$ system					



Included Accessories

AC Power Supply and Battery Pack Charger, Two Rugged Lithium-Ion Smart Battery Packs, USB Cable, HDMI Video Cable, 4GB Micro SD Card, Adjustable Hand Strap.

Ordering Information

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FLK-TI300+ Hz	Infrared Camera
FLK-TI300+ SOHz	Infrared Camera
FLK-TI401 PRO HZ	Infrared Camera
FLK-TI401 PRO SOHZ	Infrared Camera
FLK-TI480 PRO HZ	Infrared Camera
FLK-TI480 PRO SOHZ	Infrared Camera

Fluke Expert Series Infrared Cameras TiX501 and TiX580



Tablet sized screen, more details, faster decisions.

You need maximum flexibility with an ergonomic design that allows you to easily navigate over, under and around hard-to-reach objects. With a lens that rotates a full 240 degrees and a tablet-sized 5.7 inch touchscreen LCD, you can aim and focus from a comfortable angle and easily capture the target that was once impossible to see.

• Resolution: 640 × 480 (307,200 pixels)

- Temperature range: TiX501 -20 °C to +650 °C
- TiX580 -20 °C to +1000 °C
- Premium in-field viewing experience with a 5.7 inch responsive touchscreen LCD
- See the details you need with smart lenses— 2x and 4x telephoto, wide angle, and 25 micron macro—no calibration required, interchangeable between compatible cameras
- See, save and share from the field and connect to the largest selection of wireless test and measurement tools with the Fluke Connect[®] App
- Two year warranty

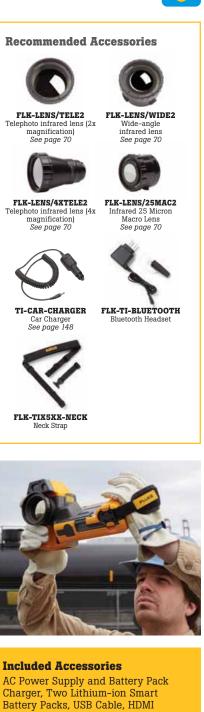
LaserSharp[®] Auto Focus

Get an in-focus image like never before with just a touch of a button. LaserSharp® Auto Focus, exclusive to Fluke, uses its built-in laser distance meter to calculate the distance to your designated target with pinpoint accuracy. On target and in-focus. Every. Single. Time.

Brilliant Image Quality

Enhanced image quality and temperature measurement accuracy – turn your 640×480 images (307,200 pixels) into 1280×960 images (1,228,800 pixels). That's $4 \times$ the resolution and pixels with SuperResolution.

Key Features	TiX580	TiX501
Infrared Resolution	640 × 480 (307,200 pixel) SuperResolution mode: 1280 × 960 (1,228,800 pixels) (TiX580)	
IFOV (Spatial Resolution)	0.93	3 mRad
Field of View	34° H × 24° V	
Distance to Spot	753:1	
Thermal Sensitivity	≤ 0.05°C at 30°C	target temp (50 mK)
Temperature Range	-20°C to +1,000°C	-20°C to +650°C
Optional lenses	Pre-calibrated smart optional	lenses: wide angle, 2x telephoto
Wireless Connectivity		ess connectivity to PC, iPhone* and iPad* $^{\tt M}$ 4.3 and up, and WiFi to LAN
IR-Fusion®	AutoBlend [™] mode,	continuous blending
Picture-In-Picture (PIP)	Yes	
Software	Fluke Connect [®] (web, mobile and desktop)	
Video recording	Standard and radiometric	
Alarms	High temperature, low tempera	ture, and isotherms (within range)



Charger, Two Lithium-ion Smart Battery Packs, USB Cable, HDMI Video Cable, Hard Carrying Case, Adjustable Neck and Hand Strap, Bluetooth Headset (where available), Warranty Registration Card and Calibration Certificate. Flash Drive includes Product Manuals and SmartView[®] Software.

Ordering Information		
FLK-TiX501 60Hz	Infrared Camera	
FLK-TiX501 9Hz	Infrared Camera	
FLK-TiX580 60Hz	Infrared Camera	
FLK-TiX580 9Hz	Infrared Camera	

Fluke CV Series ClirVu[™] Infrared Windows





Fluke CV200

Fluke CV300

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Compliance without compromise. Safety without sacrifice.

Increase the safety and speed of electrical thermal imaging inspections with Fluke $\operatorname{ClirVu}^{\mathbb{H}}$ IR Windows. Reduce the risk of arc-flash and electrocution, increase the safety of your personnel and reduce the time and cost of preventive maintenance.

- Save time with a quick and easy five-minute or less installation
 - One technician
 - One hole with standard $\mathsf{Greenlee}^{\scriptscriptstyle\mathsf{TM}}$ punch
 - Panel door does not need to be removed
 Grounds instantly to metal enclosure with
 - Grounds instantly to metal enclosure wit patent-pending AutoGround[™] process
- Maintains panel arc test ratings up to 63 kA when properly installed
- Torture Tested[™] to the highest arc blast test ratings

- IEEE C37.20.7: 63 kA Arc tested at KEMA, UL 50/50E/50V, UL 1558, IEC 60529-1: IP67, IEC 60068, NEMA 4/12, CSA C22.2 N0.14-13:2012, and CE

- Convenience of both quick turn (CV400, CV300, CV200) or security keyed access (CV401, CV301, CV201)
- Available in three sizes 50 mm (1.96 in), 75 mm (2.95 in) and 95 mm (3.74 in)
- Work permit requirements and NFPA 70E processes are significantly reduced
- Full PPE is often not required so inspections are done faster and more conveniently
- Lifetime replacement warranty against manufacturing defects

Specifications	CV400	CV401	CV300	CV301	CV	200
Size	95 mm	(3.74 in)	75 mm ((2.95 in)	50 mm	(1.96 in)
Voltage Range	Any					
NEMA Environment Type		Type 4/12 (indoor/outdoor)				
AutoGround™		Yes				
ClirVu™ Optic	Yes					
Operating temperature	–40° C to 232° C and 260° C (–40° F to 449.6° F and 500° F) Intermittent					
Body material		EZAC & ZA-2	27 High Stren	igth Zinc/ Alu	minum Alloy	
Ratings and testing						
Arc-Tested (IEEE C37.20.7)	63 kA for 30 cycles @ 60 Hz					
UL 50V component recognition	Yes					
UL 50, UL 50E/NEMA Environmental Rating	NEMA Type 4/12					
UL 1558	Yes					
CSA C22.2 No. 14, No. 94	Yes					
CSA Type Rating	Туре 4, 12					
Ingress Protection (IEC 60529)	IP67					
Lloyds Register	IEC 62271-100, 200: Up to 11 kV marine switchgear, indoor or outdoor (offshore only), IP65					
Vibration rating	IEC 60068-2-6: 10-2000 Hz, 5 g peak, 2.5 hr/axis					
Humidity rating	IEC 60068-2-3: 40 C, 93% RH, 504 hr.					
Install						
Actual mounting hole diameter required	115.42 m	n (4.54 in)	89.89 mm	n (3.53 in)	61.37 mn	n (2.41 in)
Greenlee Punch Kit = Punch/Die	742BB = 2984AV/2983AV 143			3B = /1432AV	1 102	B = /442AV
Door Latch	Hand Turn	Security Key	Hand Turn	Security Key	Hand Turn	Security Key
Optics						
Optic insert diameter	95 mm	(3.74 in)	75 mm ((2.95 in)	50 mm	(1.96 in)

Quick & Easy Installation in 5 minutes or less







Included Accessories

Hand Turn Door Latch (CV200, 300 & 400), Security Key Door Latch (301, 401) and Warranty Statement.

Fluke IR Windows are supplied complete, assembled and ready for installation.

Ordering Information

FLUKE- CV200	50 mm, Infrared Window, Hand Turn Door Latch
FLUKE- CV300	75 mm, Infrared Window, Hand Turn Door Latch
FLUKE- CV301	75 mm, Infrared Window, Security Key Door Latch
FLUKE- CV400	95 mm, Infrared Window, Hand Turn Door Latch
FLUKE- CV401	95 mm, Infrared Window, Security Key Door Latch

Contact your local distributor for price and availability.

Industrial Imaging

Fluke Lenses **Telephoto, Wide Angle and Macro**





Telephoto Lenses

The difference between finding and potentially diagnosing the problem, and not seeing any discrepancy at all. Get the detail you need, even from a distance, when you view your target magnified two-times or four-times more than a standard lens.





4x Telephoto

Wide Angle Lenses

When working in a tight space, see a larger target from a close distance. Ideal for roof and building inspection or for looking through IR Windows.

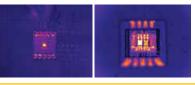


Standard Lens

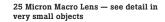
Wide Lens see both sides of the building at the same time from the same distance

Macro Lenses

Get an incredibly detailed image of very small objects-as small as 25 microns, smaller than the average human hair.



Standard



Model number	Ti401Pro	Ti480PRO	TiX580
TI-LENS/TELE2 2x Telephoto infrared smart lens†	٠	•	•
TI-LENS/WIDE2 Wide Angle Infrared Smart Lens†	•	•	•
FLK-Lens/4xTele2 4x Telephoto infrared smart lens†	•	•	•
FLK-Lens/25Mac2 25 Micron macro infrared smart lenst	•	•	•

†The lenses for TiX580, Ti480PRO are smart lenses. They come pre-calibrated and don't require calibration to a specific camera, so they are interchangeable between compatible cameras.

Ordering Information

FLK-LENS/	2x Telephoto Infrared
TELE2	Smart Lens
FLK-LENS/	4x Telephoto Infrared
4XTELE2	Smart Lens
FLK-LENS/	Wide Angle Infrared
WIDE2	Smart Lens
FLK-LENS/	25 Micron Macro
25MAC2	Infrared Smart Lens





FLUKE ®

Fluke DS703 FC Diagnostic Video Borescope



Gritty, industrial, expensive equipment? Diagnose before teardown with the durability of Fluke

Industrial inspections require a powerful diagnostic borescope designed to stand up to the dirtiest, most harsh environments. Fluke Diagnostic Scopes put high-resolution images in the palm of your hand.

- High definition probe with dual-view cameraHigh Resolution
- DS703 FC- 1280 × 720 (921,600 pixels)
- Processing speeds that render a smooth, clear, consistent image
- 17.78 cm (7 in)' LCD screen for easy viewing
- Improved battery charging and management
- Macro to micro zoom function
- Adjustable lighting to capture the best image
- Up is Up[™] technology for an appropriate orientation, regardless of the probe location
- True 720p video
- Two-year warranty

Fluke DS703 FC High Resolution Diagnostic Scope with Fluke Connect™

Rugged, high-definition industrial 1280 × 720 resolution Diagnostic Scope with Wi-Fi capability. 22.86 cm (7 in) capacitive touch screen for accurate diagnostics in difficult to reach spaces. 720p video recording inspection camera. Up is UpTM technology rotates the display screen to allow for consistent image display, regardless of the orientation of the probe.

	DS703 FC	
LCD screen		
Туре	7 inch Capacitive touch screen	
Refresh rate	30 hz	
LED backlight	Adjust display brightness for optimal viewing	
Communication		
Wireless interface	WiFi 802.11b/g/n, Range: 10.06 m (33 ft)	
Data transfer	USB and micro HDMI cable	
FlukeConnect™	Save and share images via FlukeConnect [™]	
Instant upload to the cloud	Yes, with FlukeConnect™	
General features		
Color palettes	Visible light, grayscale or inverted	
Internal memory	6 GB	
Physical buttons	Intuitive, easy to navigate button technology, 4 functional keys, 4 navigational, one capture or select button	
Carrying case	Protective EVA case	
Strap	Hand Strap and Neck Strap included	
Power adapter	AC adapter/battery charger input	
Battery	6400mAh 3.7 volt rechargeable internal li-ion battery	
Battery life	3 hours at 50 % LED brightness	
Dimensions	17.73 x 22.48 cm (6.98 x 8.85 in)	
Weight	0.88 Kg (1.95 lbs)	
General specifications and	safety	
Tablet	IP54, dust protected and protected against water projected from a nozzle	
Drop test	2 meter (6.56 feet)	
Operating temperature	0 °C to 45 °C (32 °F to 113 °F), 50 °C (122 °F) for less than 10 minutes	
Storage temperature	-40 °C to 60 °C (-40 °F to 140 °F)	
Operating humidity	90 % at 35 °C (95 °F), 75 % at 40 °C (104 °F), 45 % at 50 °C (122 °F)	
Warranty	2 years	





Included Accessories

Hand strap, neck strap, USB cable, AC power supply/battery charger, TPAK Magnetic Hanger, protective EVA case.

Ordering Information

FLK-DS703High ResolutionFCDiagnostic Scope

Fluke ii900 Sonic Leak Detection Industrial Imager



A fast, simple way to detect compressed air, steam, gas and vacuum leaks.

Equipped with an array of microphones for an expanded field-of-view, the handheld Fluke ii900 Sonic Industrial Imager enables maintenance teams to quickly and accurately locate air, gas and vacuum leaks in compressed air systems; even in noisy environments

- 17.78 cm (7 in) 1280 \times 800 LCD with capacitive touchscreen
- Frequency band of 2 kHz to 52 kHz (detected 150 ml/min leak at 7 bar for 10 mins)
- SoundMap^m overlay for visual leak detection
- Capture images in JPEG or PNG format with user input notes function
- Capture videos in MP4 format
- Manual frequency filtering
- Two-year warranty

Specifically designed for noisy production facilities, new SoundSight[™] technology is simple to learn and easy to implement. The 7" LCD touchscreen overlays a SoundMap[™] on a visual image for quick leak location identification. The straightforward, intuitive interface allows technicians to isolate the sound frequency of the leak to filter out loud background noise. In a matter of hours, the team can inspect the entire plant during peak operations. For the first time, you can quickly and easily identify the air leak repairs needed to ensure efficient operations and reduce utility bills. Images can be saved and exported for reporting purposes. Never leave air leaks unattended again.

With minimal training, the ii900 enables you to:

- Quickly and easily locate leaks
- Optimize air compressors-delay the capital expense of installing additional compressors
- Ensure proper air pressure to pneumatic equipment
- Lower energy and gas costs
- Reduce leak detection time
- Improve reliability of the production line
- Make leak detection part of the typical maintenance routine
- Train the team in a matter of minutes
- Validate repairs on the spot

Key Features	ii900
Sensor	
# of Microphones	64 digital MEMS microphones
Frequency Band	2 kHz to 52 kHz
Sound Pressure Sensitivity	150 ml/min leak at 7 bar from 10 meters
Operational Distance Range	0.5 to 50 meters (1.64 to 164 ft)
Built-in Digital Camera (visib	le light)
Field of view	63°± 5°
Focus	Fixed lens
Acoustic Measurements	
Measurement Range	15.4 dB SPL to 115.2 dB SPL ± 1 dB SPL 2 kHz 5.6 dB SPL to 102.5 dB SPL ± 2 dB SPL 19 kHz 28.4 dB SPL to 131.1 dB SPL ± 1 dB SPL 35 kHz 41.8 dB SPL to 133.1 dB SPL ± 3 dB SPL 52 kHz
General Specifications	
Battery Life	6 hours/battery (product includes spare battery)
Ingress Protection (main unit)	IP40 protection against particles 1mm or greater
Sensor Head Rating	IP51 protection against dust and dripping water

Try the Virtual Demo

See sound now. Take a virtual tour of the Fluke ii900 and ii910 Acoustic Imagers.

acoustic-imagin.fluke.com



Fluke Premium Care plans are available for this product. Premium Care plans provide coverage above and beyond your tool's original product warranty. See pages 12 – 13.

Ordering Information

FPC1S-II900-1	Fluke II900 Standard 1 Year
FPC3S-II900-1	Fluke II900 Standard 3 Year
FLUKE-II900/ FPC	Fluke ii900 with Standard 1 Year Bundle

Recommended Accessories



BP291 4500 mAh capacity Li-ion Battery



External Battery Charger





FLK-TIX5XX-NECK Neck Strap

CXT1000 Hard Carry Case





Included Accessories

AC Power Supply, Battery Pack Charger, Two Lithium-ion Smart Battery Packs, USB Cable, Rugged, Hard Carrying Case, Two Rubber Array Covers, Adjustable Hand Strap and Neck Strap.

Ordering Information

Fluke-II900

Sonic Industrial Imager

Industrial Imaging

Fluke ii910 Precision Acoustic Imager



A fast, easy way to detect, locate and analyze partial discharge in one tool.

The ii910 is the all-in-one tool maintenance teams have been waiting for when it comes to leak and partial discharge (PD) issues. Quickly scan the environment and get all the pictures/videos you need with simple one-button capture. No additional tools, equipment or cumbersome cables required. The ii910 Acoustic Imager's ground-breaking technology makes it a cost-efficient, safe, effective, and comfortable tool for teams who inspect and maintain power distribution and industrial high voltage equipment.

- 17.78 cm (7 in) 1280 × 800 LCD with capacitive touchscreen
- Detection range of 0.5 m to 120 m
- Frequency band of 2 kHz to 100 kHz
- SoundMap[™] overlay for visual PD detection
- Captures videos in MP4 format
- Manual frequency filtering
- Two-year warranty

SoundSight[™] Technology for partial discharge detection

Partial Discharge is a very serious issue that you need to be able to monitor quickly and easily. Whether you are inspecting insulators, transformers, switch gears or high voltage powerlines you need to be sure that you spot a problem quickly and early. Partial discharge that goes unchecked can cause blackouts, fires, explosions, or death from arc flashes. In addition to the danger that partial discharge poses to human lives and the environment, there is a significant monetary risk of downtime. Having equipment go down can cost millions of dollars per hour of downtime.

The Fluke ii910 Precision Acoustic Imager is the perfect tool for teams that are constantly inspecting and maintaining power distribution and industrial high voltage equipment. The ii910 provides a safe quick and easy way to detect and locate partial discharge in order to maintain high voltage equipment and prevent catastrophic events. With SoundSight[™] technology the ii910 translates the sounds that it hears into a visual representation so that you can quickly locate problem areas. The higher frequency capability of the ii910 allows for earlier detection to facilitate early maintenance planning.

Key Features	ii910
Sensor	
Frequency Band	2 kHz to 100 kHz
Nominal Frame Rate	25 fps
Detection Range	0.5 to 120 m (1.64 to 393.7 ft)
Built-in Digital Camera	(visible light)
Field of View	63° ±5°
Focus	Fixed lens
Display	
Size	22.86 cm (7 in) LCD with backlight, under-sunlight readable
Resolution	1280 × 800 (1,024000 pixels)
Touchscreen	Capacitive
Acoustic Image	Yes, SoundMap™ image
Acoustic Measurements	
Measurement Range	12.1 dB SPL to 114.6 dB SPL ±1 dB SPL 2 kHz 4.4 dB SPL to 101.2 dB SPL ±2 dB SPL 19 kHz 12.8 dB SPL to 119.2 dB SPL ±1 dB SPL 35 kHz 19.8 dB SPL to 116.1 dB SPL ±3 dB SPL 52 kHz 41.4 dB SPL to 129.0 dB SPL ±1 dB SPL 80 kHz 54.4 dB SPL to 135.5 dB SPL ±1 dB SPL 100 kHz
Auto Max/Min dB Gain	Auto or manual, user selectable
Frequency Band Selection	User selectable through user-made pre-sets or manual entry
General Specifications	
Battery Life	6 hours/battery (product includes spare battery)
Main Unit Rating	IP40 protection against particles 1 mm or greater
Weight	2.15 kg (4.74 lbs)
General Safety	IEC 61010-1

Fluke Premium Care plans are available for this product. Premium Care plans provide coverage above and beyond your tool's original product warranty. See pages 12 - 13.

Ordering Information

FPC1S-II900-1	Fluke II900 Standard 1 Year
FPC3S-II900-1	Fluke II900 Standard 3 Year
FLUKE-II900/ FPC	Fluke ii900 with Standard 1 Year Bundle

Recommended Accessories



BP291 4500 mAh capacity Li-ion Battery EBC290 External Battery Charger





FLK-TIX5XX-NECK Neck Strap

CXT1000 Hard Carry Case





Included Accessories

AC Power Supply, Battery Pack Charger, Two Lithium-ion Smart Battery Packs, USB Cable, Rugged Hard Carrying Case, Two Rubber Array Covers, Adjustable Hand and Neck Strap.

Ordering Information

Fluke-II910 Precision Acoustic Imager

Fluke RSE300 and RSE600 Mounted Infrared Cameras



Fluke RSE30 and RSE60

Mounted infrared cameras for research, science and engineering

- MATLAB® and LabVIEW® software compatibility allows users to integrate infrared data, images and videos to support R&D analysis
- 320 x 240 and 640 x 480 resolution options
- See the details you need with optional smart lenses:
- 2x and 4x telephoto, wide angle and macro lenses
- Optimize images, generate customizable reports and export images to the format of your choice with SmartView R&D[™] desktop software
- Eliminate potential for mis-diagnosis with automatically focused images throughout your field of view with MultiSharp[™] Focus.



Specifications

Key features	RSE300	RSE600	
Infrared resolution ¹	320 x 240 (76,800 pixels)	640 x 480 (307,200 pixels)**	
IFOV with standard lens (spatial resolution)	1.85 mRad	0.93 mRad	
Field of view	34 °H x 24 °V	34 °H x 24 °V	
Minimum focus distance	15 cm (ap	prox. 6 in)	
Camera focus options	Focus is adjusted in SmartVi	iew R&D™ desktop software	
IR-Fusion [®] technology	Yes, in SmartView R&D [™] desktop software. Five modes of image blending (AutoBlend [™] mode, Picture-in-Picture (PIP), IR/Visible alarm, Full IR, Full visible light) add the context of the visible details to your infrared image		
Interfaces for image/data transfer	Supported in camera data ports: GigE Vision		
Thermal sensitivity (NETD)	≤ 0.030 °C at 30 °C target temp (30 mK)*	≤ 0.040 °C at 30 °C target temp (40 mK)*	
Level and span	Smooth auto and manual scaling, in ${\tt SmartView}^{{\tt B}}$ desktop software		
Fast auto toggle between manual and auto modes	Yes, in SmartView R&D™ desktop software		
Fast auto-rescale in manual mode	Yes, in SmartView R&D™ desktop software		
Minimum span (in manual mode)	0.1 °C (0.18 °F), in SmartView R&D™ desktop software		
Minimum span (in auto mode)	<1.0 °C (<1.8 °F), in SmartView R&D™ desktop software		
Built–in digital camera (visible light)	5 megapixel industrial performance		
Frame rate	60 Hz or 9 Hz versions		
Digital zoom	Variable up to 16x in SmartV	iew R&D™ desktop software	

Ordering Information

FLK-RSE300 60Hz Thermal Imager; 320 x 240 FLK-RSE300 9Hz Thermal Imager; 320 x 240 FLK-RSE600 60Hz Thermal Imager; 640 x 480 FLK-RSE600 9Hz Thermal Imager; 640 x 480 What's included Infrared camera with standard infrared lens; AC power supply; Ethernet cable; antenna; SmartView R&D™ software download key; lens cover; case Follow directions in the box to

download copy of SmartView R&D™. 1 copy of

SmartView R&D^{{}^{\rm TM}} for every camera

Optional accessories

FLK 0.75X WIDE LENS Infrared Wide Angle Lens

FLK 2X LENS Infrared Telephoto Lens (2X magnification)

FLK 4X LENS Infrared Telephoto Lens (4X magnification)

FLK MACRO LENS Infrared Macro Lens

FLK-RSE-MB ounting bracket

Environmental Testing

To maintain acceptable temperature, humidity and ventilation levels for occupant health and comfort, and to help regulate building health and manage increasing energy costs, rely on Fluke's range of HVAC & environmental testing equipment.

#2

4005

Indoor Air Quality Meter Selection Guide



Models	Fluke 971	Fluke 922	Fluke 985	Fluke CO-220
Record storage	99	99	10000	
Downloadable data	No	No	USB or Ethernet	No
Battery type	(4) AAA	(4) AA	Rechargeable Li-Ion 7.4 V 2600 mAh	(1) 9V
Warranty	2 years	2 years	1 year	1 year
Indoor air diagnostic appli	cations			
Air velocity		•		
Air pressure		•		
Air flow (volume)		•		
Carbon dioxide				
Carbon monoxide				•
Temperature	•	•		
Humidity	•	٠		
Dew point/wet bulb	•			
Particle concentration counting			•	
Air pressure/air velocity/ai	r flow			
Air pressure range		±4000 Pascals/±16 in H ₂ 0/±400 mm H ₂ 0/±40 m bar/±0.6 psi		
Air pressure accuracy		$\pm 1\% + 1$ Pascal/ $\pm 1\%$ + 0.01 in H ₂ 0/ $\pm 1\%$ + 0.1 mm H ₂ 0/ $\pm 1\%$ + 0.01 m bar/ $\pm 1\%$ + 0.001 psi		
Air velocity range		250 to 16000 fpm/1 to 80 m/s		
Air velocity accuracy		±2.5% of reading at 2000 fpm (10.00 m/s)		
Air flow (volume) range		0 to 99,999 cfm		
Air flow (volume) accuracy		Accuracy is a function of velocity and duct size		
Temperature relative humi	lity			
Temperature range	-20° C to 60° C (-4°F to 140°F)	0° C to 50° C (32°F to 122°F)		
Temperature accuracy	0° C to 45° C (±0.5° C); -20° C to 0° C and 45° C to 60° C (±1.0° C)	0° C to 50° C (±0.01° C)		
Relative humidity range	5% to 95% RH	0% to 90% RH		
Relative humidity accuracy	10% to 90% RH @ 23° C (±2.5% RH); < 10% or > 90% RH @ 23° C (±5.0% RH)	0% to 90% RH @ 23° C (±2.0% RH)		
Carbon dioxide/carbon mor	loxide		1	
Carbon dioxide range				
Carbon dioxide accuracy				
Carbon monoxide range				0 to 1000 ppm
Carbon monoxide accuracy				5% or ±2 PPM
Particle counting				
Flow rate			2.83 L/min (0.1 cfm)	
Particle size range			0.3 μm - 10.0 μm (6 channel)	
Count modes			Raw counts, #/m³, #/ft³, #/liter in Cumulative or Differential mode	
Counting efficiency			50% @ 0.3 μm; 100% for particles > 0.45 μm (per ISO 21501)	
Concentration limits			10% @ 4000000 particles per ft ³ (per ISO 21501)	

FLUKE ®

Fluke 922 Airflow Meter/Micromanometer



The Fluke 922 helps you analyze airflow easily

The Fluke 922 makes airflow measurements easy by combining three functions-differential pressure, airflow, and velocity-into a single, rugged meter. The 922 was designed and built for how (and where) you do your job. Its performance, ruggedness and ease of use set the Fluke 922 apart from the competition. The bright white display and ruggedized holster and wrist strap let you take the Fluke 922 into less than ideal environments. Color-coded hoses help you keep track of where your readings are coming from. The simple, intuitive interface means you can measure pressure, velocity, or airflow at the push of a button.

- · Powerful meter provides differential and static pressure, air velocity and flow readings
- Convenient color-coded hoses help proper interpretation of pressure readings
- · Easy to use without sacrificing performance
- · Bright, backlit display for clear viewing
- · User-defined duct shape and size for maximum airflow accuracy
- Resolution down to 0.001 in H20
- 99 point data storage capacity
- · Min/Max/Average/Hold functions for easy data analysis
- Auto power off saves battery life
- Two-year warranty

Use the Fluke 922 Micromanometer to:

- Measure pressure drops across key HVAC equipment to drive peak performance and extend equipment life
- · Match ventilation to occupant loads
- · Monitor indoor vs. outdoor pressure relationships and manage the building envelope
- Promote indoor comfort and guality
- Perform duct traversals for accurate airflow readings

Specifications	922
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Operating Relative Humidity	Non condensing (<10°C (50° F)) 90% RH (10° C to 30° C (50° F to 86° F)) 75% RH (30° C to 40° C (86° F to 104° F)) 45% RH (40° C to 50° C (104° F to 122° F)) without Condensation
Ingress Protection (IEC 60529)	IP40
Operating Altitude	2000 m (6,561 ft)
Storage Altitude	12000 m (39,370 ft)
EMC	Meets requirements for IEC 61326-1
Vibration	MIL-PREF-28800F, Class 3
Max Pressure at Each Port	10 psi
Data storage	99 readings
Weight	0.64 kg (1.41 lb)
Battery	Four AA batteries
Battery Life	375 hours without backlight, 80 hours with backlight

	Range	Accuracy
Air pressure	±4000 Pa ±16 inH 0 ±400 mmH 0 ±40 mbar ±0.6 psi	$\begin{array}{r} \pm 1\% + 1 \text{ Pa} \\ \pm 1\% + 0.01 \text{ inH}_2 \text{O} \\ \pm 1\% + 0.1 \text{ mmH}_2 \text{O} \\ \pm 1\% + 0.01 \text{ mbar} \\ \pm 1\% + 0.001 \text{ psi} \end{array}$
Air velocity	1 to 80 m/s (250 fpm to 16000 fpm)	10.00 m/s (±2.5% of reading at 2000 fpm)
Air flow (volume)	0 to 99,999 cfm 0 to 99,999 m ³ /hr 0 to 99,999 l/s	Accuracy is a function of velocity and duct size
Temperature	0° C to 50° C (32°F to 122°F)	0.1° C (0.2° F)





Environmental Testing

Recommended Kits Bundle & Save

CXT170

Extreme Case



Fluke 922 Airflow Meter/ Micromanometer Kit



Included Accessories

Fluke 922: Two Rubber Hoses, Wrist Strap, Four AA Batteries 1.5 V Alkaline, User Manual and Soft Carrying Case.

Fluke 922 Kit: Fluke 922 Airflow Meter, 30 cm (12 in) Pitot Tube, ToolPak, Two Rubber Hoses, Wrist Strap, Four AA Batteries, User Manual and Hard Carrying Case.

Ordering Information

FLUKE-922 **Airflow Meter** FLUKE-922/KIT Airflow Meter

Kit

Fluke 985 Airborne Particle Counter



Fluke 985

Troubleshooting indoor air quality made easy

The Fluke 985 Particle Counter is ideal for troubleshooting and monitoring indoor air quality issues and verifying HVAC filter performance in critical locations. With its easy to read and fully configurable channel display, lightweight yet rugged form, and highly accurate measurements, the Fluke 985 is the perfect tool for the maintenance, HVAC, and IAQ professional.

- Six channels and particle size range of 0.3 µm to 10.0 µm: Assures accurate measurements even for critical locations requiring ISO Class 5 – 9 certification
- Ultra-lightweight and ergonomic design: Promises easy single-hand operation in tight or awkward spaces with less operator fatigue
- Long battery life: Ten hours of standard-use battery life to last a full work day
- Large 8.9 cm (3.5 inch) QVGC color display: Easy navigation and viewing with the intuitive icons and large font options
- 10000 record storage: Quick access to historical data
- On-screen data presentation: Data can be viewed in a traditional tabular or trend graph view at the user's preference
- **Personalized setting and configurations:** Customizable settings for the display, sample methods, and alarm settings for sample count
- Data export options: Download data to a PC using a USB memory stick, USB cable or Ethernet connection. No special software is required to download or view data
- Optional password control: Confirms security when required
- **USB/Ethernet charge cradle:** Assures device is always ready to go when needed
- One-year warranty

985 Specifications Channels 0.3 μm, 0.5 μm, 1.0 μm, 2.0 μm, 5.0 μm, 10.0 μm Flow rate 2.83 L/min (0.1 cfm) Light source 775 nm to 795 nm, 90mW class 3B laser Count modes Raw counts, #/m3, #/ft3, #/liter in Cumulative or Differential mode 50% @ 0.3 μm; 100% for particles > 0.45 μm (per ISO 21501) Counting efficiency 1 count/5 minute (JIS B9921) Zero count Concentration limits 10% at 4000000 particles per ft3 (per ISO 21501) Data storage 10000 records (rotating buffer) Alarms Counts, low battery, sensor fail Delay time 0 to 24 hours Sample inlet Isokinetic probe Security Administrator password control (optional) Communication mode USB or Ethernet Calibration PSL particles in air (NIST traceable) Size (HxWxD) 27.2 × 9.9 × 5.3 cm (10.7 x 3.9 x 2.1 in) Weight 0.68 kg (1.5 lb) Power adapter 100 V AC to 240 V AC, 12 V DC, 2.5 A Li-ion 7.4 V 2600 mAh; 10 hours typical use (5 hours continuous sampling) / 3.5 hours) Rechargeable battery Operating environment 10° C to 40° C (50°F to 104°F) / < 95% RH, non-condensing -10° C to 50° C (14°F to 122°F) /Up to 98% RH, non-condensing Storage environment

Specialty Model

CO-220 Carbon Monoxide Meter

Measures CO levels in industrial environments and commercial or residential buildings where accumulation of combustion gas is possible.



- Stand-alone CO meter that does not require a digital multimeter
- Large backlit LCD displays CO levels from 0 ppm to 999ppm
- Beeper triggers with increasing frequency as CO levels rise
- MAX hold function stores and displays the maximum CO level
- Automatic sensor zeroing and selftest upon startup

CO-205 Aspirator Kit

The CO-205 flue gas sampling accessory kit contains all the components necessary to provide a clean sample for the Fluke family of gas measuring devices.

The CO-205 Accessory Kit includes:

- Stainless steel sampling tube
- Industrial-grade hand operated aspirator to draw flue sample
- Easily replaceable particulate filter
- Specially designed nose cap for connection to the Fluke CO-220

Included Accessories

Fluke 985: Cradle for charging and USB and Ethernet Communications, ENET Cat5e 7-foot Cable, USB A to Mini-B 6-foot Cable, 12V DC Power Supply, Zero Count Inlet-Filter, Filter Adapter, Sample Inlet Protective Cap, Hard Case, Getting Started Manual and User Manual (CD).

Fluke CO-220: C50 Soft Carrying Case and Battery.

Ordering Information

FLUKE-985	Particle Counter
FLUKE-CO-220	Carbon Monoxide Meter
FLUKE-CO-205	Aspirator Kit

Environmental Testing

Fluke 971 Temperature Humidity Meter



Temperature and humidity are two important factors in maintaining optimal comfort levels and good indoor air quality. Quickly and conveniently take accurate humidity and temperature readings with the Fluke 971.

It is invaluable for facility maintenance and utility technicians, HVAC-service contractors, and specialists who assess indoor air quality (IAQ). Lightweight and easy to hold, it's the perfect tool for monitoring problem areas. With a rugged holster and protected sensor, the Fluke 971 is built to perform and made to last.

- New and improved digital sensor for faster response times
- · Backlit dual display of humidity and temperature
- · Measures dew point and wet bulb temperatures
- 99 record storage capacity
- · Ergonomic design with belt clip and protective holster
- Compact and lightweight at 188 g (6.63 oz)
- Temperature range from -20° C to 60° C (-4° F to 140° F)
- Relative humidity from 5% to 95%
- Min/Max/Avg/Hold functions
- Low battery indicator
- One-year warranty



Specifications	971
Temperature range	-20° C to 60° C (-4° F to 140° F)
Temperature accuracy 0° C to 45° C (32°F to 113°F) -20 °C to 0° C and 45° C to 60° C (-4°F to 32°F and 113°F to 140°F)	±0.5° C (±1.0°F) ±1.0° C (±2.0°F)
Resolution	0.1° C (0.1° F)
Response time (temperature)	500 ms
Temperature sensor type	NTC
Relative humidity range	5% to 95% R.H.
Relative humidity accuracy 10% to 90% R.H. @ 23° C (73.4°F) <10%, >90% R.H. @ 23° C (73.4°F)	±2.5% R.H. ±5.0% R.H.
Humidity sensor	Electronic capacitance polymer film sensor
Data storage	99 points
Response time (humidity)	For 90% of total range - 60 sec with 1 m/s air movement

General Temperature: -20° C to 60° C (-4° F to 140° F) Operating temperature Humidity: 0° C to 60° C (32° F to 140° F) -20° C to 55° C (-4° F to 131° F) Storage temperature 4 AAA alkaline, 200 hours Battery life Safety Complies with EN61326-1 Size (HxWxD) 194 mm × 60 mm × 34 mm Weight 0.18 kg (6.63 oz)

Fluke RLD2 **UV Refrigerant Leak Detector** Flashlight

Leak detection made easy. The compact, easy-touse, RLD2 UV flashlight uncovers refrigerant leaks instantly. Use the UV light to



find the leakage area, then, use the laser pointer to pinpoint the exact leak location. With 100000 hours of life, and four operating modes, this versatile leak detector is a must have for HVAC technicians.

- Six UV LEDs (395 nm wavelength) detect leak detection dyes
- · Laser pointer clearly locates center of the UV field for accuracy
- Three LED flashlight with 100000 hour LED life
- Four operating modes: flashlight, UV light, laser light, UV/laser light combination
- Convenient detachable key chain carabiner and AAA battery included

Recommended Accessories





Included Accessories

Fluke 971: Four AAA Alkaline Batteries, Operation Manual. Fluke RLD2: Chain Carabiner and Batteries.

Ordering Information

FLUKE-971

Temperature **Humidity Meter** FLUKE-RLD2

Refrigerant Leak Detector

Insulation Testers

Whether you work on motors, generators, cables, or switch gear, Fluke digital insulation resistance testers deliver advanced performance and noise-free, reliable results. And they are designed to be safe, simple to use and gimmick-free. A perfect solution for insulation testing, troubleshooting, commissioning and preventive maintenance applications.

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FLUKE 1535 INSULATION TESTE

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Insulation Tester Selection Guide

					(Idi	
Insulation Test Functions	1503	1507	1577	1587 FC	1550C	1555
Test Voltages	500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V	500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V	250 V, 500 V, 1000 V, 2500 V, 5000 V	250 V, 500 V, 1000 V, 2500 V, 5000 V, 10 000 V
Insulation Resistance Test Range	0.1 MΩ - 2 GΩ	0.01 MΩ - 10 GΩ	0.1 MΩ - 600 MΩ	0.01 MN - 2 GN	200 kn - 1 Tn	200 kn - 2 tn
Polarisation Index/Dielectric Absorption Ratio		•		•	•	•
Auto Discharge	•	•	•	•	•	•
Time Ramp Test (Breakdown)					•	•
Pass/Fail Comparison		•				
Estimated Number of Insulation resistance Tests	1000	1000	1000	1000	1000 @ 5000 V	1000 @ 10 000 V
Voltage >30 V Warning	•	•	•	•	•	•
Memory				•	(99 locations)	(99 locations)
Remote Test Probe	•	•	•	•		
Lo Ohms	•	•				
Display	Digital LCD	Digital LCD	Digital LCD	Digital LCD	LCD / Analog Bar Graph	LCD / Analog Bar Graph
Continuity	(200 mA)	(200 mA)	•	•		
Multimeter Functionality						
AC/DC Volts	•	•	•	•		
Current			•	•		
Resistance	•	•	•	•		
Temperature (contact)				•		
Temperature Compensation				•		
Lo-Pass Filter				•		
Capacitance				•	•	•
Diode Test				•		
Frequency				•		
MIN/MAX				•		
Fluke Connect TM enabled				•	•	÷
Other						
Hold/Lock	•	•	•	•	•	•
	•	•	•	•		
Software					•	•
Warranty (in years)	1	1	с	ς	ę	ę
Battery	4× AA (NEDA 15A or IEC LR6)	4× AA (NEDA 15A or IEC LR6)	4× AA (NEDA 15A or IEC LR6)	4× AA (NEDA 15A or IEC LR6)	Rechargeable	Rechargeable

+ With Fluke IR FC Connector.

Fluke 1587 FC and 1577 Insulation Multimeters



Fluke 1577



Two powerful tools in one.

The Fluke 1587 FC and 1577 Insulation Multimeters combine a digital 1 kV insulation tester with a full-featured, true-RMS digital multimeter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventive maintenance.

- Insulation test (1587 FC: 0.01 MΩ to 2 GΩ) (1577: 0.1 MΩ to 600 MΩ)
- Insulation test voltages (1587 FC: 50 V, 100 V, 250 V, 500 V, 1000 V), (1577: 500 V, 1000 V) for many applications
 - Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection
- Auto-discharge of capacitive voltage for added user protection
- Filter for motor drive measurements (1587 FC only)
- AC/DC voltage, DC millivolts, AC/DC milliamps, resistance $\left(\Omega\right),$ and continuity
- Capacitance, diode test, temperature, Min/Max, and frequency (Hz) (1587 FC only)
- Auto power off to save battery power
- Large display with backlight and large digits
- Included accessories: Remote probe, test leads and probes, alligator clips, (Type K thermocouple, 1587 FC only)
- Accepts optional Fluke TPAK magnetic hanging system to free your hands for other work
- Rugged, utility hard case allows you to bring everything you need for the job
- Three-year warranty

The Fluke 1587 FC Insulation Multimeter adds four powerful diagnostic functions through the Fluke Connect™ Measurements app:

- PI/DAR timed ratio tests with TrendIt[™] graphs identifies moisture and contaminated insulation problems faster
- Memory storage through Fluke Connect™ eliminates writing down results, reduces errors and saves data for historical tracking over time
- Temperature compensation through app for establishing accurate baselines and relevant historical comparisons

Specifications	1587 FC	1577
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V	•	
Insulation test voltages 500 V, 1000 V		•
Insulation resistance	0.01 $M\Omega$ to 2.0 $G\Omega$	0.1 M Ω to 600 M Ω
Auto-discharge of capacitive voltage	•	•
Insulation test smoothing reading	•	
Frequency	•	
Capacitance	•	
Diode test	•	
Temperature	•	
Min/Max	•	
Low-pass filter (for work on VSDs)	•	
AC/DC voltage	•	•
DC millivolts	•	•
AC/DC milliamps	•	•
Resistance	0.1 Ω to 50 MΩ	0.1 Ω to 50 MΩ
Continuity	•	•
Remote probe, test leads, alligator clips	•	•
Type K thermocouple	•	
Rugged, utility hard case	•	•
Auto power off	•	•



FLUKE- 1577	Insulation Multimeter
FLUKE- 1587FC	Insulation Multimeter with Fluke Connect™
FLUKE- 1587/MDT FC Kit	FC 2-in-1 Adv Motor & Drive Kit w/ 9040, i400
FLUKE- 1587/I400 FC KIT	FC 2-in-1 Insulation Multimeter with i400
	FC 2-in-1 Adv Elec Kit w/62MAX+ i400

Fluke 1555 and 1550C Insulation Resistance Testers





Powerful troubleshooting and predictive maintenance tools.

The Fluke 1555 and redesigned Fluke 1550C Insulation Resistance Testers offer digital insulation testing up to 10 kV, making them ideal for testing a wide range of high voltage equipment including switchgear, motors, generators and cables.

- Capacitance and leakage current measurement
- Ramp function for breakdown testing
- Warning function alerts the user that line voltage is present and gives a voltage reading up to 600 V AC or DC for increased user safety
- Measurements can be stored in up to 99 memory locations, and each location is assigned a unique, defined label for easy recall
- Automatic calculation of Dielectric Absorption (DAR) and Polarization Index (PI) with no additional setup
- Three-year warranty

The tester's accuracy is specified for one year after calibration at operating temperatures of 0° C to 35° C (32° F to 95° F). For operating temperatures outside the range (-20° C to 0° C and 35° C to 50° C) (-4° F to 32° F and 95° F to 122° F), add \pm .25% per ° C, except on the 20% bands add \pm 1% per ° C.

Insulation resistance measurement			
Test voltage (DC)	Range	Accuracy (±reading)	
250 V	< 250 kΩ 250 kΩ to 5 GΩ 5 GΩ to 50 GΩ > 50 GΩ	unspecified 5% 20% unspecified	
500 V	< 500 kΩ 500 kΩ to 10 GΩ 10 GΩ to 100 GΩ > 100 GΩ	unspecified 5% 20% unspecified	
1000 V	< 1 ΜΩ 1 ΜΩ to 20 GΩ 20 GΩ to 200 GΩ > 200 GΩ	unspecified 5% 20% unspecified	
2500 V	< 2.5 MΩ 2.5 MΩ to 50 GΩ 50 GΩ to 500 GΩ > 500 GΩ	unspecified 5% 20% unspecified	
5000 V	< 5 ΜΩ 5 ΜΩ to 100 GΩ 100 GΩ to 1 ΤΩ > 1 ΤΩ	unspecified 5% 20% unspecified	
10000 V (1555 only)	< 10 ΜΩ 10 ΜΩ to 200 GΩ 200 GΩ to 2 ΤΩ > 2 ΤΩ	unspecified 5% 20% unspecified	
Functions	Range	Accuracy (±reading)	
Leakage current	1 nA to 2 mA	±(5% + 2 nA)	
Capacitance measuren	nent 0.01 uF to 15.00 μF	±(15% rdg + 0.03 μF)	

Combine the IR3000 FC Connector and Fluke Connect[™], to perform advanced insulation testing for preventive and PdM tasks through:

30 V to 600 V AC/DC, 50/60 Hz

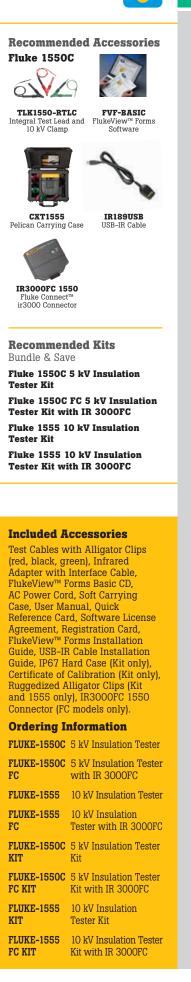


Live circuit warning

• PI (polarity index) and DAR (dielectric absorption ratio) tests with TrendIt[™] graphs to identify problems faster

 $\pm(15\% + 2 V)$

- Wireless transfer of test results from the tool to Fluke Connect[™] eliminates error-prone paperwork and saves your technician's time
- Temperature compensation through Fluke Connect[™] App helps establish accurate baselines and relevant historical comparisons



Insulation Testers

Fluke 1507 and 1503 Insulation Resistance Testers



These lightweight, affordable insulation testers are perfect for troubleshooting, commissioning and preventive maintenance applications.

- Automatic calculation of polarization index and dielectric absorption ratio (1507 only)
- Multiple test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V (1507 only)
- Remote test probe for rapid testing
- Insulation test range 0.01 M Ω to 10 G Ω (1507), 0.1 M Ω to 2000 M Ω (1503)
- Compare (Pass/Fail) function for repetitive tests (1507 only)
- Live circuit detection prevents insulation test if voltage > 30 V is detected
- Auto-discharge of capacitive voltage
- AC/DC voltage: 0.1 V to 600 V
- Lo ohms/Earth-bond continuity (200 mA) for checking connections and motor windings
- Resistance: 0.01 Ω to 20.00 Ω
- One-year warranty



Features	1503	1507
User-selectable test voltages for many applications	•	•
Additional test voltages 50 V, 100 V, 250 V		•
Special remote control probe for easy and safe measurements	•	•
Auto-discharge of capacitive voltage for added user protection	•	•
Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection	•	٠
Save both time and money with automatic calculation of Polarization Index and Dielectric Absorption Ratio		•
Auto power off to save batteries	•	•
Large display with backlight	•	•
Continuity function (200 mA)	•	•
Compare function (pass/fail) for fast repetitive tests		•

Insulation	1503	1507	
Insulation test range	$0.1~\text{M}\Omega$ to 2000 $\text{M}\Omega$	0.01 M Ω to 10 G Ω	
Test voltages	500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V	
Test voltage accuracy	+ 20%, - 0%	+ 20%, - 0%	
Insulation test current	1 mA nominal	1 mA nominal	
AC/DC Voltage measurement	600 V (0.1 V resolution)	600 V (0.1 V resolution)	
Resistance measurement range	0.01 Ω to 20 kΩ	0.01 Ω to 20 kΩ	
Auto discharge	Discharge time < 0.5 second for $C = 1 \mu F$ or less	Discharge time < 0.5 second for $C = 1 \mu F$ or less	
Maximum capacitive load	Up to 1 µF	Up to 1 µF	
Open circuit test voltage	> 4 V , < 8 V	> 4 V , < 8 V	
Short circuit current	> 200 mA	> 200 mA	
General			
Battery life	Meter: 1000 hours Insulation Test: >1000 tests		
Size (H x W x L)	5.0 x 10.0 x 20.3 cm (1.97 x 3.94 x 8.00 in)		
Weight	550 g (1.2 lb)		





Wiring test in a small distribution box $- \mbox{ all in one spot}$

Included Accessories

TL224 Test Leads, TP74 Test Probes, Clips PN 1958654 (red) and PN 1958646 (black), Holster, Remote Probe and User Manual.

Ordering Information

FLUKE-1507	Insulation Tester
FLUKE-1503	Insulation Tester

Earth Ground Testers

Poor grounding contributes to unnecessary downtime, but a lack of good grounding is dangerous and increases the risk of equipment failure.

Without an effective grounding system, you could be exposed to the risk of electric shock, instrumentation errors, harmonic distortion issues, power factor problems and a host of possible intermittent events. If fault currents have no path to the ground through a properly designed and maintained grounding system, they will find unintended paths that could include people.

Good grounding is more than a safety measure it also prevents damage to industrial plants and equipment. A good grounding system will improve the reliability of equipment and reduce the likelihood of damage due to lightning or fault currents.

Fluke 1630-2 FC Earth Ground Clamp Meter





Stakeless earth ground loop and AC leakage current clamp for fast, safe indoor/outdoor earth ground resistance and AC leakage current tests.

Heavy-duty clamp jaw stays in alignment and in calibration even in every day, on-the-job industrial environments. Test the grounding components of equipment in hardto-reach spaces, including areas that are indoors or fully paved and do not permit driving auxiliary test stakes. Stay on line-identify ground loop resistance without the need to disconnect then reconnect the earth electrode from the system.

Stakeless measurement

The 1630-2 FC clamp measures earth ground loop resistances for multi-grounded systems using the dualclamp jaw. This test technique eliminates the dangerous and time-consuming activity of disconnecting parallel grounds, as well as the process of finding suitable locations for auxiliary test stakes. You can also perform ground tests in places that were previously difficult: inside buildings, on power pylons or anywhere you don't have access to soil to place auxiliary test stakes. With this test method, a twoprocess measurement is made around the earth ground wire or bus bar using the specially-designed jaw of the 1630-2 FC clamp. Auxiliary test stakes are not used at all. A known voltage is induced by the source in the clamp, and the current is measured by the sensor in the clamp. The tester automatically determines the earth loop resistance for this section of the earthing system.

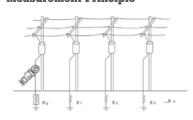
One-year warranty.

Electrical sp	ecifications			
Maximum volt ground	age to earth	1000 V		
Battery type		AA alkaline IEC/EN LR6	6 (x4)	
Battery life		More than 15 hours		
Frequency rar	nge	40 Hz to 1 kHz		
Ingress protec	tion	IEC 60529: IP30 with ja	aw closed	
LCD	Digital reading	9999 counts		
	Refresh rate	4 Hz		
Reference tem	perature	23 °C ±5 °C (73 °F ±9 °	'F)	
Display Reading Specification with Loop Resistance Standard		Input (Ω)	Minimum	Maximum
		0.47	0.41	0.53
		0.5	0.44	0.55
		10	9.55	10.45
		100	96	104.0
Data logging o	capacity	Minimum of 32760 me	asurements	
Safety	General	IEC 61010-1: Pollution I	Degree 2, IEC 61557-1	
	Measurement	IEC 61010-2-032: CAT	IV 600 V / CAT III 1000	V
Current clamp current measu		IEC 61557-13: Class 2, ≤30 A/m		
Resistance to	Earth	IEC 61557-5		
Effectiveness protective mea		IEC 61557-16: cutoff frequency 20 kHz (-3 dB)		

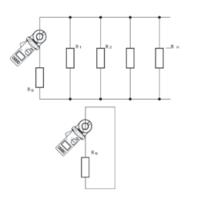
General specifications

Conductor size	40 mm (1.57 in) approximately
Dimensions (L x W x H)	283 x 105 x 48 mm (11.1 x 4.1 x 1.9 in)
Weight	880g (31 oz)

Ground Resistance Measurement Principle



Equivalent Circuit Diagram





Included Accessories

Hard Case, Loop Resistance Standard, Four AA Batteries, Safety Information Guide and Quick Reference Guide.

Ordering Information

Fluke-1630-2 FC Earth Ground Loop and Leakage Clamp



Fluke 1620-2 Series Geo Earth Ground Testers



Fluke 1625-2



Fluke 1623-2

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The Fluke 1623-2 and 1625-2 Earth Ground Testers offer data storage and download capabilities via USB port, a large display, and world class accessories that simplify and speed up testing time.

These unique earth ground testers that can perform all four types of earth ground measurement:

- 3 and 4-Pole Fall-of-Potential (using stakes)
- 4-Pole Soil Resistivity testing (using stakes)
- Selective testing (using 1 clamp and stakes)
- Stakeless testing (using 2 clamps only)
- IP56 rated for outdoor use
- Professional carrying case
- USB data storage and transfer
- Two-year warranty

In addition, the Fluke 1625-2 offers these advanced features:

- Automatic Frequency Control (AFC) identifies existing interference and chooses a measurement frequency to minimize its effect, providing more accurate earth ground value
- R* measurement calculates earth ground impedance at 55 Hz to more accurately reflect the earth ground resistance that a fault-toearth ground would see
- Adjustable limits for quicker testing

Earth ground resistance and soil resistivity should be measured when:

- · Designing earth ground systems
- Installing new ground system and electrical equipment
- Periodically testing ground and lightning protection systems
- Installing large electrical equipment such as transformers, switchgears, machines, etc.

Features	1623-2	1625-2
One-button measurement concept	•	
3- and 4-pole Fall of Potential, earth resistance loop testing	•	•
4-Pole soil resistivity testing	•	•
2-Pole resistance measurement AC		•
2-and 4-pole resistance measurement DC		•
Selective testing, no disconnection of ground conductor (1 clamp)	•	•
Stakeless testing, quick ground loop testing (2 clamps)	•	•
Measuring frequency 128 Hz	•	
Earth impedance measurement at 55 Hz		•
Automatic frequency control (AFC) (94 - 128 Hz)		•
Measuring voltage switchable 20/48V		•
Programmable limits, settings		•
Continuity with buzzer		•
Dust/water resistance	IP56	IP56
Safety rating	CAT II 300 V	CAT II 300 V

Specifications	1623-2	1625-2	
Resistance ranges	0 to 20 kΩ	0 to 300 kΩ	
Operating error	±10%	±5%	
Test voltage	48 V	20 / 48 V	
Short circuit current	> 50 mA	250 mA	
Weight	1.1 kg (2.43 lb) (including batteries)	1.1 kg (2.43 lb) (including batteries)	
Dimensions (W x H x D)	250 x 133 x 187 mm (9.75 x 5.25 x 7.35 in)		
Battery type	AA alkaline IEC/EN LR6 (x6)		

These products are for unpowered installations measuring grounding connections.



Urdering I	niormation
FLUKE-	Basic GEO Earth
1623-2	Ground Tester
FLUKE-	Basic GEO Earth
1623-2 KIT	Ground Tester Kit
FLUKE- 1625-2	Advanced GEO Earth Ground Tester
FLUKE-	Advanced GEO
1625-2 KIT	Earth Ground

Earth Ground Testers

Installation Testers

Safety and performance are two of the most critical requirements for any electrical system. Good quality insulation, a properly working grounding system and active protection assure the safety of people, electrical systems and buildings, and protect them against electrocution, fire and other equipment damage.

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Fluke 1660 Series Multifunction Installation Testers



Fluke 1660 Series Multifunction Installation Testers verify the safety of electrical installations in domestic, commercial and industrial applications. They can ensure that fixed wiring is safe and correctly installed to meet the requirements of IEC 60364 and all relevant local standards.

Three-year warranty.

Fluke 1664 FC – The complete tester for advanced users

The Fluke 1664 FC+ is the only installation tester that protects connected appliances from damage during insulation tests, and allows you to share your test results wirelessly by smartphone with coworkers or customers. Fluke's patented Insulation PreTest stops you from performing tests with appliances that are connected to the system during test. This helps eliminate accidental damage and keeps your customers happy.

In addition, the Fluke 1664 FC+ offers you the power of Fluke Connect[™]. Now you can send test results straight from your Fluke 1664 FC to your smartphone, and transmit those results to other members of your team.

Fluke 1663 - The ideal tester for professional troubleshooters

This instrument is ideal for professional users' high-end functionality, advanced measurement capability, yet it is still easy to use.

Fluke 1662 - A solid, basic installation tester

The Fluke 1662 gives you Fluke reliability, simple operation and all the testing power you need for basic installation testing.

Measurement function	1664 FC	1663	1662
EV Test 6 mA (RCD A/EV, RDC-DD) NEW	•	•	
Insulation PreTest safety function	•	-	-
Insulation at L-N, N-PE inputs	•	-	-
Auto Test sequence	•	-	-
Loop and line resistance– $m\Omega$ resolution	•	-	-
Continuity at L-N, N-PE inputs	•	•	-
Test smooth dc sensitive RCDs (Type B/B+)	•	•	-
Earth resistance	•	•	-
Wiring polarity checker, detects broken PE and N wires	•	•	•
Insulation resistance	•	•	•
Continuity and resistance	•	•	•
Measure motor windings with continuity test (@ 10 mA)	•	•	•
Loop and line resistance	•	•	•
Prospective earth fault current (PEFC/IK)	•	•	•
Prospective short-circuit current (PSC/IK)	•	•	•
RCD trip time / RCD trip current (ramp test)	•	•	•
Measures trip time and current for RCD type A and AC in one test $% \left({{{\mathbf{R}}_{\mathbf{r}}}_{\mathbf{r}}} \right)$	•	•	•
Automatic RCD test sequence	•	•	•
Phase sequence test	•	•	•
Other features			
Fluke Connect™ compatibility	•	-	-
EV Compatible		•	•
ShareLive™ calling	•	-	-
On/Off switchable auto-start for RCD and Looptest	•	•	•
Self-test	•	•	•
Memory, interface			
Z Max memory	•	•	-
Memory	•	•	•
$\ensuremath{IR}\xspace{-USB}$ and $\ensuremath{BLE}\xspace$ interface (when used with optional FVF software)	IR-USB/BLE	IR-USB	IR-USB





Easily manage measurement data, test certificates and reports including from solar site installation and commissioning testing through an intuitive and modern interface

See page 11 for more information

Included Accessories

Six AA (IEC LR6) Batteries, C1600 Hard Carrying Case, Zero Adapter, Heavy Duty Mains Cord, STD Standard Test Lead Set, Padded Carrying and Waist Strap, Quick Reference Guide, TP165X Remote Control Probe and Lead Set, User Manual on CD.

Ordering Information

FlukeMultifunction Installation1664Tester with Auto Test,
Insulation PreTest, Fluke
Connect™ compatibilityFlukeMultifunction Installation
Tester

FlukeMultifunction Installation1662Tester

Portable Appliance Testers

Perform measurements according to the local standards. Portable appliance testing (PAT testing) is crucial for maintaining electricalsafety in any workplace. This could be driven by legislations involving aspects of healthand safety, or by the insurance market. All employers have a duty of care.

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Fluke 6200-2 and 6500-2 Portable Appliance Testers



Fluke 6200-2



Fluke 6500-2



Perform more tests each day

The Fluke 6200-2 and 6500-2 Portable Appliance Testers (PAT) have redesigned auto-test capabilities to help you increase the number of portable appliance tests completed each day. It is designed to enable you to work faster without compromising safety – yours or your customer's. Two year warranty.

The Fluke 6200-2 Portable Appliance Tester offers:

- · Dedicated key for each test for 'one- touch' testing
- Pre-set pass/fail levels to save time
- Large display for easy reading
- Single mains socket for appliance connection
- Separate IEC socket for easy mains/extension lead testing
- Detachable test leads for quick field replacementIntegral carrying handle
- The Fluke 6500-2 Portable Appliance Tester delivers all of this capability, plus:
- Integral QWERTY keyboard for rapid data entry
- Additional Compact Flash memory card capability for back-up data storage and USB port for transfer to PC
- Large backlit graphics display
- Pre-set, auto-test sequences for user convenience
- Integral site, location and description codes for faster data processing
- Memory review facility for more on-site control

		0700.0
Measurement functions	6200-2	6500-2
LN Mains Volts	•	•
Outside Limits Indicators	•	•
Null out facility for earth bond lead	•	•
Protective Earth Resistance PE (200 mA)	•	•
Protective Earth Resistance PE (25 A)	•	•
Insulation 500 V DC	•	•
Insulation 250 V DC	-	•
Protective Earth Conductor Current	•	•
Touch Current	•	•
RCD Test	-	•
Substitute leakage current	•	•
Appliance Power kVA	•	•
Appliance Load Current	•	•
Seven Segment Custom LCD	•	-
Colour dot matrix display	-	•
Back Light	•	•
USB Flash drive port	•	•
USB Port-Printing/downloading	-	•
External printer output	•	•
Front Panel QWERTY Key pad	-	•
IEC Lead Test	•	•
Auto-testing	-	•
Pass / Fail Level Programmable Indicators	-	•
Data Storage	-	•
Limited Data Storage	_	•
Polarity Checks	•	•
Graphical Help Menu Online		•
Programme Mode	-	
	-	•
Real time clock	-	•

Recommended Accessories



SP-SCAN-6000 Barcode Scanner (6500-2 only) **C1600** Rugged, molded plastic case

Included Accessories

Test Lead, Test Probe, Alligator Clip, Mains Cord, USB Stick and Cable (6500-2 only), Hard Carrying Case, Quick Reference Guide and User Manual on CD.

Ordering Information

FLUKE-6200-2 Portable Appliance Tester

FLUKE-6500-2 Portable Appliance Tester

Contact your local distributor for price and availability.

Not available in all countries.

Power Quality

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Whether you work in an industrial plant, manufacturing facility or a utility, Fluke Power Quality and energy management tools make it easy to record and analyze the power quality and energy data necessary to maintain the best performance and reliability.

		Single- Phase				Three-Phase			
Basic measurements	Application use	VR1710	1732/34	1736/38	1742	1746	1773	1775	1777
Measure V. I. kW. Cos/DPF. kWhr			•		•	•	•	•	
Measure MIN/MAX and AVG values	Get detailed power and energy consumption profiles during energy audits and pinpoint		•	•	•	•	•	•	
Waste energy monetization									
Basic Harmonics Study									
THD measurement (V & I)	Discover the source of distortion in your	•	•	•	•	•	•	•	•
Harmonics 1 to 25 for V & I	installation, so that you can filter those loads or move them to separate circuits	• (V only)		•		•	•	•	•
Advanced Harmonics Study			-						
Full harmonic spectrum	If distorting loads are causing problems in			•		•	•	•	•
Power harmonics	your installation, you need comprehensive data to identify the source and create a solution						•	•	•
Basic Industrial PQ Troubleshooting	oting	-		-			-		
Oscilloscope function	When troubleshooting in the field, graphical			•			•	•	•
Voltage dips and swells	data enables you to trace the source of the problem at hand	•		•		•	•	•	•
Advanced Industrial PQ Troubleshooting	shooting								
Comprehensive logging capability	Complex installations often require a deeper dive into measurement data Multinle loads			•	•	•	•	•	•
Transient capture	may be interacting randomly to cause a	•		•			٠	•	•
Flicker	single problem	•			•	•	•	•	•
Event capture and transients with waveforms	1 waveforms							•	•
8kV transients								1 MHz	20 MHz
Features									
Inrush				•		•	•	•	•
Flicker					•	•	•	•	•
Transients								•	•
Mains signaling						•	•	•	•
Event waveform capture				•			•	•	•

Power Quality Tools Selection Guide

Fluke 1770 Series Power Quality Analyzers



The faster, easier way to perform power quality studies.

Fluke 1770 Series Three-Phase Power Quality Analyzers eliminate the complexities of power quality logging, troubleshooting, and analysis. Engineered to be the faster, easier way to perform power quality studies, the 1770 Series offers automatic measurements, a straightforward user interface and setup, best-in-class specifications, and a simplified reporting platform. The instrument can also be powered directly from the measurement circuit, eliminating the need to find a power outlet or use a lengthy extension cord. With the 1770 Series you'll never miss a critical power quality event-from fast transients up to 8 kV, harmonics up to 30 kHz, dips and swells, as well as the voltage, current, and power measurements that enable you to characterize your electrical system.

- **True power quality tool:** Captures all the key measurements you need to determine power quality health automatically without additional setup, including key power quality parameters harmonics, dips, swells, unbalance, inrush etc.
- AC/DC applications: Measure AC up to 6000 A and DC up to 2000 A
- High speed transients: 20 MS/s (1777) & 1 MS/s sampling up to 8 kV to enable capture of high voltage, high speed transients that can cause physical damage to equipment.
- Class A compliant: Perform tests knowing you are fully compliant with stringent international IEC 6100-4-30 Class A standards
- **Power quality health summary:** Automatically evaluate power quality inputs against the EN 50160 electrical standard, providing detailed troubleshooting of problem areas
- **Real time data:** At-a-glance "Advanced Power Quality Health" summary screen with graphical representation, allows you to analyze real time data and zoomed views while all your recording needs are taken care of
- Simple guided setup functionality: Auto-detection of system type (WYE/Delta/Frequency 50–60 Hz/Nominal voltage) and auto-population of non-system-specific parameters
- Ease of operation: High resolution capacitive touch-screen and button user interface ensures that gloved operation is simple and easy providing clear results in seconds
- **Power system connection and instrument setup autocorrection:** Automatically detect and correct errors in voltage and current wiring, manual correction also available
- Automatic parasitic power from measurement line: Power internal battery with 120/240 V AC adapter or direct connection to measurement line (up to 600 V AC)
- **Customized views and reporting:** Create custom views to operate more efficiently and simply. Using Energy Analyze Plus software custom reporting templates can be created
- Highest safety rating in the industry: CAT III 1000 V / CAT IV 600 V rated for use at service entrance
- Easy access to data: with 8 GB of internal memory, expandable to 32 GB, continual powering of measurement circuits and advanced communication options such as WIFI and LTE communication, no event or data will be missed
- Two-year warranty

	1773	1775	1777
Applications			
Harmonic surveys	•	•	•
Basic power and power quality studies	•	•	•
Energy surveys and load testing	•	•	•
Nuisance circuit breaker tripping		•	•
Advanced power and power quality studies		•	•
Discovery of equipment failures caused by transients		•	•
Utility power quality surveys		•	•
Diagnose electronic equipment damage with capture of high speed, high magnitude (8 kV) voltage transients			•
Features			
Event capture with table	•	•	•
Event capture and transient with waveforms		•	•
High speed transient capture with waveshape analysis in FEA+ application software		1 MHz	20 MHz

Fluke Premium Care plans are available for this product. Premium Care plans provide coverage above and beyond your tool's original product warranty. See pages 22 – 23.

Ordering Information

FPC1S-FPQ170-1	Fluke 1770 Series Standard 1 Year
FPC3S-II900-1	Fluke 1770 Series Standard 3 Year
FPC1G-FPQ170-1	Fluke 1770 Series Gold 1 Year
FPC3G-FPQ170-1	Fluke 1770 Series Gold 3 Year
FLUKE-1775/FPC	Fluke 1770 Series with Standard 1 Year Bundle



Captures all the key measurements you need to determine power quality health.



Log up to 10 sessions of 8 weeks with 1-minute intervals and 100 events.



Fluke 1777 Power Quality Analyzer kit with included iFlex™ and Alligator clips.

		Fluke 1770 Series Power Quality Analyzers	
Voltage in	puts		
Number of	inputs	4 inputs, 3 phases and neutral referenced to PE (5 connectors)	
Measureme	ent category	CAT III 1000 V / CAT IV 600 V	
Maximum i	nput voltage	1000 V rms / 1000 V DC (1700 Vpk)	
Nominal vo	ltage range	Wye and single phase: variable (50 V – 1000 V) Delta: Variable (100 V – 1000 V) IEC 61000-4-30 Class A compliance for the nominal voltages (V _{din}) 100 V – 690 V	
Input impe	dance	10 M between P-P and P-N, 5 M between P-PE and N-PE	
Bandwidth		DC to 30 kHz for PQ measurements, excluding transients	
Resolution		24-bit synchronous sampling	
Sampling fi	requency	80 kS/s at 50/60 Hz	
Scaling		1:1, variable for use of potential transformers	
Voltage tra	ansients		
Measureme	ent range	±8 kVpk	
Sampling r	ate	1775: 1 MS/s 1777: 1 MS/s, 20 MS/s	
Bandwidth		DC to 1 MHz	
Trigger		Adjustable trigger level. Triggers on high-frequency components >1.5 kHz	
Resolution		14-bit synchronous sampling	
Current inputs			
Number of inputs		4 inputs 3 phases and Neutral, range selected automatically to attached sensor	
Range	AC	1 A to 1500 A with i17XX-FLEX1500 12 1 A to 1500 A with i17XX-FLEX1500 24 3 A to 3000 A with i17XX-FLEX3000 24 6 A to 6000 A with i17XX-FLEX3000 36 40 mA to 40 A with clamp i40s-EL 4 A to 400 A with clamp i40s-EL	
	DC	20 A to 2000 A with 80i-2010-EL clamp	
Bandwidth		DC to 30 kHz	
Resolution		24-bit synchronous sampling	
Sampling fi	requency	80 kS/s at 50/60 Hz	
Scaling		1:1, variable	
Input voltage		Clamp: 50 mV / 500 mV rms; CF 2.8 Rogowski Coil: 15 mV / 150 mV rms at 50 Hz, 18 mV / 180 mV rms at 60 Hz; CF 4 all at nominal probe range	
Input impe	dance	11 kΩ	
Aux inputs	5		
Wired conr	nection with 1	7xx-AUX adapter	
Number of	inputs	2	
Input range	9	Direct: 0 V DC to ± 10 V DC or 0 V to ± 1000 V DC	
Input impe	dance	Direct: 2.92 MΩ	

Fluke P0400 Electrical Measurement Window



Fluke PQ400



Compliance without compromise. Safety without sacrifice.

The Fluke PQ400 Electrical Measurement Window enables the connection of three-phase measurement equipment to energized panels, without the need to open the panel door, or wear supplemental personal protective equipment (PPE).

- Permanently connected voltage and current sensors located inside the electrical panel allow you to make power quality and energy measurements using the external access points without opening the panel door
- Automatic probe detection for Fluke 1740, 1730 and 1770 series power quality analyzers and energy loggers and compatible clamps
- Full 360 degree rotation allows the PQ400 window to be oriented in any direction
- Simple installation using a step drill bit and electrohydraulic hole punch
- IP67 with cover closed, IP50 with cover opened and all connectors attached
- Five-year warranty





i17XX-FLEX6KIP IP65 iFlex™ 6000 A 90 cm Current Probes







i40s-EL/3pk 40 A Clamp-on Current Transforme (individual or 3pk) 80I-2010S/3PK 2000 A AC/DC Current Clamp (individual or 3p



Antenna Cable Antenna cable 5 m

177X WiFi/BLE Wi-Fi/BLE Modu

Included Accessories

17XX iFlex[™] 1500 A 24 IN, Voltage Test Lead 3-Phase+N, 4x AC285 Black Alligator Clips, 1x AC285 Green Alligator Clip, USB-C Cable, Line Cord, FLK-17XX 0.18 M Test Lead Set, Green Test Lead, Cable Marker Set, WiFi/BLE Module (1775, 1777), Magnet Probe (1775, 1777), Hanger Kit (1775, 1777), Black Soft Case (1775), Hardcase (1777)

PQ400: Enclosure, 4× Male-Male Cable 2 m for iFlex[™] Current Probes, Cable Marker Set 3P+N+PE, Cable Ties, Instruction Sheet.

Ordering Information

FLUKE-1773 Three-Phase Power Quality Analyzer w/ Accessories

- FLUKE-Three-Phase 1773/BASIC Power Quality Analyzer Only
- FLUKE-1775 Three-Phase Power Quality Analyzer w/ Accessories
- Three-Phase FLUKE-1775/BASIC Power Quality Analyzer Only
- **FLUKE-1777** Three-Phase Power Quality Analyzer w/ Accessories
- FLUKE-Three-Phase 1777/BASIC Power Quality Analyzer Only FLUKE-**Power Quality**

PQ400 Window

Contact your local distributor for price and availability.

Power Quality

Fluke 1732 and 1734 Three-Phase **Electrical Energy Loggers**





Fluke 1734



Energy logging is now within your reach — discover where you're wasting energy, optimize your facility's energy use and reduce your bill

The Fluke 1732 and 1734 Three-Phase Electrical Energy Loggers introduce a new simplicity to discovering sources of electrical energy waste. Discover when and where energy in your facility is being consumed-from the service entrance to individual circuits. Access and share data remotely with your team via the Fluke Connect™ app so you can maintain safer working distances and make critical decisions in real-time, reducing the need for protective equipment, site visits and check-ins.

Profiling energy use across your facility helps you identify opportunities for energy savings, and provides you with the data you need to act on them. The new Energy Analyze software package allows you to compare multiple data points over time to build a complete picture of energy use, which is the first step to reduce the cost of your energy bill.

- Key measurements: Automatically capture and log voltage, current, power, power factor, energy and associated values
- Fluke Connect[™] compatible: View data locally on the instrument, via Fluke Connect[™] mobile app and desktop software or through your facilities' WiFi infrastructure
- Convenient instrument powering: Power instrument directly from the measured circuit
- · Highest safety rating in the industry: CAT IV 600 V / CAT III 1000 V rated for use at the service entrance and downstream
- Measure all three-phases: With included three flexible current probes
- Fully integrated logging: Connect other Fluke Connect[™] devices to the Fluke 1734 to simultaneously log up to two other measurement parameters, virtually any parameter available on a Fluke Connect[™] wireless digital multimeter or module
- Energy Analyze Plus application software: Download and analyze every detail of energy consumption with our automated reporting
- One-vear warrantv

Specifications

sheeme				
Parameter		Range	Max resolution	Intrinsic accuracy at reference conditions (% of reading +% of full scale)
Voltage		1000 V	0.1 V	±(0.2% + 0.01%)
	i17xx-flex 1500 12"	150 A	0.1 A	±(1% + 0.02%)
		1500 A	1 A	±(1% + 0.02%)
	i17xx-flex 3000 24"	300 A	1 A	±(1% + 0.03%)
Current		3000 A	10 A	±(1% + 0.03%)
ourient	i17xx-flex 6000 36"	600 A	1 A	±(1.5% + 0.03%)
		6000 A	10 A	±(1.5% + 0.03%)
	i40s-EL clamp	4 A	1 mA	±(0.7% + 0.02%)
		40 A	10 mA	±(0.7% + 0.02%)
Frequency		42.5 Hz to 69 Hz	0.01 Hz	±(0.1%)
Aux input		±10 V DC	0.1 mV	±(0.2% + 0.02%)
Voltage min/max		1000 V	0.1 V	±(1% + 0.1%)
Current min/max		defined by accessory	defined by accessory	±(5% + 0.2%)
THD on v	voltage	1000%	0.1%	±0.5
THD on (current	1000%	0.1%	±0.5
Voltage harmonics 2nd 50th		1000 V	0.1 V	≥ 10 V: ±5% of reading < 10 V: ±0.5 V
Current 1 50th	harmonics 2nd	defined by accessory	defined by accessory	≥ 3% of current range: ±5% of reading < 3% of current range: ±0.15% of range
Unbalance		100%	0.1%	±0.2

Recommended Accessories



i17XX-FLEX 1500 1500 Å 12 inch iFlex Current Clamps (Purchase as individual, 3pk or 4pk)







i17XX-FLEX 3000

3000 A 24 inch iFlex

i17XX-FLEX 6000 6000 A 36 inch iFlex Current Clamps (Purchase as individual, 3pk or 4pk)

i40s-EL/3pk 40 A Clamp-on Current Transformer 3 pack Purchase as individual or 3pk) (D11



FLUKE-17XX-TL 0.1M Test Lead Set, 1000V CAT III, Non-stackable Connectors: 0.1 m: Red/Blk Connectors: 1.5 m: Red/Blk

FLUKE-17XX-TL 1.5M Test Lead Set, 1000V CAT III, Non-stackable





1732/UPGRADE

Upgrade Kit fo 1732 to 1734

1730-Hanger Hanging Strap Kit







C17XX Soft cas

Included Accessories

Power Supply, Voltage Test Leads, 4× Alligator Clips, 3× 12 inch 1,500A Flexible Current Probe, Soft Case, Energy Analyse Plus Software, Line Cords, Colour Coding Set and Documentation on USB Flash Drive, Magnetic Hanging Strap (1734) and Magnetic Voltage Probes (1734).

Ordering Information

FLUKE	Energy Logger, Basic
1732/B	Version (excl. current probes)
FLUKE 1732/EUS	Energy Logger (incl. current probes)
FLUKE 1734/B	Energy Logger, Basic Version with Fluke Connect™ (excl. current probes)
FLUKE	Energy Logger
1734/EUS	(incl. current probes)

Fluke 1736 and 1738 Three-Phase Power Loggers



Fluke 1736



Fluke 1738



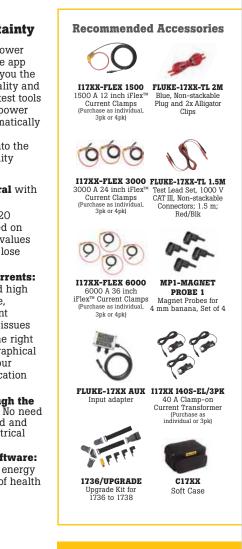
More visibility, reduced uncertainty

The Fluke 1736 and 1738 Three-Phase Power Loggers built with Fluke Connect[™] mobile app and desktop software compatibility give you the data you need to make critical power quality and energy decisions in real-time. The ideal test tools for conducting energy studies and basic power quality logging, the 1736 and 1738 automatically capture and log over 500 power quality parameters so you have more visibility into the data you need to optimize system reliability and savings.

- Measure all three-phases and neutral with included 4 flexible current probes.
- **Comprehensive logging:** More than 20 separate logging sessions can be stored on the instruments. In fact, all measured values are automatically logged so you never lose measurement trends.
- **Capture dips, swells, and inrush currents:** Includes event waveform snapshot and high resolution RMS profile, along with date, timestamp and severity to help pinpoint potential root causes of power quality issues
- **Optimized user interface:** Capture the right data every time with quick, guided, graphical setup and reduce uncertainty about your connections with the intelligent verification function.
- Complete "in-the-field" setup through the front panel or Fluke Connect™ App: No need to return to the workshop for download and setup or to take a computer to the electrical panel.
- Energy Analyze Plus application software: Download and analyze every detail of energy consumption and power quality state of health with our automated reporting.
- One-year warranty

	Three-Phase E	nergy Loggers	Three-Phase I	Energy Loggers
	1732 Energy Logger	1734 Energy Logger	1736 Power Logger	1738 Advanced Power Logger
Load studies	•	•	•	•
Energy assessments	•	•	•	•
Neutral Current Measurement (four current channels)	-	-	٠	•
Harmonics measurements	-	-	•	•
Voltage event capture	-	-	•	•
Advanced analysis: Waveform and Inrush event capture PQ Health (EN 51060)	-	-	Upgrade package*	•
Fully integrated logging with Fluke Connect™	Upgrade package*	•	Upgrade package*	•
WiFi	Optional	•	•	•
Wi-Fi / Bluetooth	Optional	•	Optional	•
Magnetic probe set	Optional	•	Optional	•
Magnetic hanger	Optional	•	Optional	•
Connection via WiFi router		software license oduct registration.		software license oduct registration.

*Upgrade packages are available to upgrade existing 1732 Energy Loggers with the same features of the 1734 Energy logger, and to upgrade existing 1736 Power Loggers With the same features and capabilities of the 1738 Advanced Power Logger. Please note that 1732 and 1734 Energy Loggers cannot be upgraded with the functionality of 1736 and 1738 Power Loggers.



Included Accessories

Power Supply, Voltage Test Leads, 4× Alligator Clips, 4× 12 inch 1500A Flexible Current Probe, Soft Case, Energy Analyze Plus Software, WiFi Adapter, Line Cords, Color Coding Set and Documentation on USB Flash Drive, Magnetic Hanging Strap (1738) and 4× Magnetic Voltage Probes (1738).

Ordering Information

FLUKE 1736/B	Power Logger, Basic Version (excl. current probes)
FLUKE- 1736/EUS	Power Logger, (excl. current probes)
FIUKE 1738/B	Power Logger, Advanced Version (excl. current probes)
FLUKE- 1738/EUS	Power Logger, Advanced Version (excl. current probes)

Contact your local distributor for price and availability.

Power Quality

Fluke 1742, 1746 and 1748 **Three-Phase Power Quality Loggers**









Troubleshoot, quantify energy usage and perform quality of service surveys easier than ever

The Fluke 1742, 1746 and 1748 Three-Phase Power Quality Loggers give you fast, easy access to the data you need to make critical power quality and energy decisions in real time, and with the included Energy Analyze Plus software package you can easily create detailed reports.

Fully compliant with international power quality standards such as IEC 61000-4-30 Class A including local compliance to a variety of national and international standards and capable of simultaneously logging up to 500 parameters while also capturing events, the Fluke 1740 Series helps uncover intermittent and hard-to-find power quality issues more easily than ever. Energy Analyze Plus software quickly assesses the quality of power at the service entrance, substation, or at the load, according to national and international standards.

- "In-workshop" or "in-the-field" setup and download through PC application software using USB Memory Stick, Wi-Fi download, wired ethernet connection or via USB cable
- One-touch reporting: Create standardized reports or export data in PQDIF or NeQual compatible format for use with third-party software
- · Capture dips, swells and interruptions
- Measures harmonics and interharmonics for voltage and current; also includes unbalance, flicker and rapid voltage changes
- Two-year warranty (battery not included)

Measure all power quality and power paramaters	1742 Power Quality Logger	1746 Power Quality Logger	1748 Power Quality Logger
Functions	Quanty Logger	Quanty Logger	Quanty Logger
Energy	•	•	
Basic Power Quality	Optional		•
	-	Ontional	•
Advanced Power Quality	Optional	Optional	1748 Power
Selection Guide	Quality Logger	Quality Logger	Quality Logger
Functions	tunity rogger	tuniy 20990	tuniy 109901
Voltage, current, power, power factor, frequency	•	•	•
Energy forward/reverse	•	•	•
Peak Demand	•	•	•
THD	•	•	•
Voltage and current harmonics (to 50th)	-	•	•
Flicker	•	•	•
Unbalance	-	•	•
Rapid voltage change events	-	•	•
Interharmonics (to 50th)	-	•	•
Dips, swells, interruption and transient events tables	-	•	•
Mains signaling	-	•	•
Inrush current	-	•	•
Transients (low frequency)/Waveform deviation events	-	-	•
Recording			
Trend	•	•	•
Waveform snapshots	-	-	•
RMS profile	-	-	•
Communication			
Ethernet	•	•	•
USB (mini B)	•	•	•
WiFi download Instrument to device	•	•	•
Wifi download via WiFi hub (requires registration)	Opt.	Opt.	Opt.

Recommended Accessories



i17XX-FLEX1.5KIP IP65 iFlex[™] 1.5KA 60 cm (24") Current Probes (Purchase as individual, 3pk or 4pk)

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IP65 iFlex[™] 3KA 60 cm (24") Current Probes (Purchase as individual, 3pk or 4pk)



i17XX-FLEX6KIP IP65 iFlex™ 6KA 90 cm (36") Current Probes (Purchase as individual, 3pk or 4pk)

i40S-EL/3PK 40 A Clamp-On Current Transformer as individual or 3pk) (Purch

MP1-3R/1B

Magnet Probe

(3x Red 1x Black)



IP65 VOLT CONN IP65 Rated Voltage Connector



17XX AUX Auxiliary Input Adapter

Cable Assembly, Voltage Test Lead 3-Phase+N 5 m



174X-HANGER 174X Hanger Kit

1742-6/8 UPGRADE Upgrade Kit 1742 to 1746/1748 & 1746 to 1748

Included Accessories

4× Flexible Current Probes, USB Stick, USB Cable, 3PHVL-1730 3-Phase + Neutral Voltage Test Lead, Test Lead Set Red/Black 0.18m, Test Lead Set Red/Black 1.5m, 4× Alligator Clips, 173X/174X Soft Case, Cable Marker Kit, MP1-3R/1B-Magnet Probe 1 Set (3 Red, 1 Black) and Hanger Kit (1748).

Ordering Information

· · · · · · · · · · · · · · · · · · ·	
FLUKE-	Three-Phase Power
1742/15/EUS	Quality Logger
FLUKE-	Three-Phase Power
1742/30/EUS	Quality Logger
FLUKE-	Three-Phase Power
1746/15/EUS	Quality Logger
FLUKE-	Three-Phase Power
1746/30/EUS	Quality Logger
FLUKE-	Three-Phase Power
1748/15/EUS	Quality Logger
FLUKE-	Three-Phase Power
1748/30/EUS	Quality Logger

Contact your local distributor for price and availability.

Power Quality

Fluke Norma 6000 Series Portable Power Analyzers



Fluke Norma 6003



Fluke Norma 6004



- Measure three-phase power and DC output power at the same time (available in 3 or 4 channel), with voltage and current inputs on each channel
- Make mechanical torque and speed measurements using the included inputs and outputs of the Fluke 6003+ and 6004+
- 0.1% accuracy, 500 kHz bandwidth, 200 kS/s sample rate so you can rely on the power conversion system measurements you take no matter what distortion may be present
- Take precision power measurements almost anywhere – highly portable, battery powered analyzer weighing only 3.5 kg and 9.3 cm depth with up to 10 hours of battery life
- View critical data in the field on the main display meter, including waveform, harmonics up to the 100th, vector and trend
- Ensure high common-mode rejection and allow flexible configurations according to measurement requirements using the electrically isolated channels
- User-adjustable measurement rate from 100 ms to 1 s with continuous logging via 32 GB of onboard storage
- Easy in-field set up using the large 5.7" front LCD screen or a remote PC connection (USB or RS485),
- Online measuring, data download and analysis with included PC software (Fluke NormaView Software)
- Three-year warranty



BP291

Additional Battery



Fluke Norma 4000 and 5000 Precision Power Analyzers





Fluke Norma 4000





Fluke Norma 5000



For field and laboratory testing

Fluke Norma 4000 and 5000 Precision Power Analyzers offer easy and straight-forward operation with unmatched price performance. Features include: 1 to 6 power phases, 144 mm (5.7 in) color display, harmonic analysis, scope mode, vector diagram display, recorder function, Fluke NormaView PC software and 4MB RAM data memory.

- Measure three-phase power and DC output power at the same time (available in 3 or 4 channel), with voltage and current inputs on each channel
- Make mechanical torque and speed measurements using the included inputs and outputs of the Fluke 6003+ and 6004+
- 0.1% accuracy, 500 kHz bandwidth, 200 kS/s sample rate so you can rely on the power conversion system measurements you take no matter what distortion may be present
- Take precision power measurements almost anywhere – highly portable, battery powered analyzer weighing only 3.5 kg and 9.3 cm depth with up to 10 hours of battery life
- View critical data in the field on the main display meter, including waveform, harmonics up to the 100th, vector and trend
- Ensure high common-mode rejection and allow flexible configurations according to measurement requirements using the electrically isolated channels
- User-adjustable measurement rate from 100 ms to 1 s with continuous logging via 32 GB of onboard storage
- Easy in-field set up using the large 5.7" front LCD screen or a remote PC connection (USB or RS485),
- Online measuring, data download and analysis with included PC software (Fluke NormaView Software)
- Three-year warranty

Ordering Information Fluke Norma 4000/5000:

NORMA	High Precision
4000	Power Analyzer
NORMA	High Precision
5000	Power Analyzer

Fluke Norma 6000 Series:

NORMA 6003	3-Channel Portable Power Analyzer
NORMA 6003+	3-Channel Portable Power Analyzer with Speed/Torque Inputs
NORMA 6004	4-Channel Portable Power Analyzer
NORMA 6004+	4-Channel Portable Power Analyzer with Speed/Torque Inputs

Fluke VR1710 Single Phase Voltage Quality Recorder



Fluke VR1710

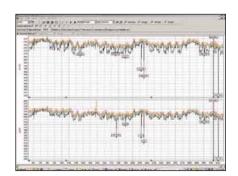


Applications

Easy-to-use solution for detecting and recording voltage quality problems

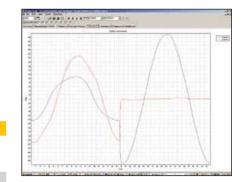
The Fluke VR1710 is a single-phase, plug-in voltage quality recorder that provides fast and easy recording of voltage trends, dropouts, harmonics and general power quality—including dips and surges—to help maintenance and facilities management personnel easily pinpoint the root cause of voltage problems. Voltage quality parameters including RMS average, transients, flicker, and harmonics up to the 32nd are recorded using a userselected average period from 1 second to 20 minutes.

- Fast and easy recording of voltage trends, dropouts and power quality: Easily pinpoint the root cause of singlephase voltage problems
- Extremely easy to use: Plugs directly into the mains power socket and capture data
- Quickly see what happened and when: Min, Max, average RMS values (1/4 cycle) with time stamp and transient display (>100 μs) with time stamp
- Easily identify problems: Power quality or equipment related Flicker recording to EN 61000-4-15, individual harmonic and THD values with trends
- Includes PowerLog software: For quick download, analysis and automatic reporting
- Save time: Generate power quality reports automatically with pre-set templates
- One-year warranty

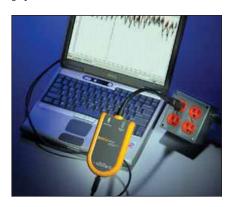


PowerLog Setup – Simple set up of internal clock, logging periods, and intervals with default values for quick results.

PowerLog View – Data presentation showing RMS voltage and harmonic trends, actual transients, summary information and statistics in accordance with EN50160.



Actual transient display (> 100 µs) with time stamp – Quickly identify issues with included graphical software.



Includes PowerLog software

Voltage recordingMonitors and records supply voltage; measures RMS average, minimum and
maximum values, and checks whether the socket outlet is providing voltage
within tolerance.Distortion measurementMeasure frequency and harmonics; check whether the distorting loads [UPS
systems, drives, etc.] are affecting your other equipment.Flicker measurementQuantify the affects of switching loads on lighting systems.Voltage transientsCapture those intermittent, momentary events that may be affecting your
equipment; the full waveform is captured with date, timestamp, and duration.Specifications

Operating voltage	70 V to 300 V 0.5% of range
Min/Max/Avg RMS value	Resolution 0.12 V
Number of events	175000
Dips/Interruptions	Yes
Time resolution	5 ms
Voltage resolution	0.12 V
Over-voltages	Yes
Frequency	Yes
Harmonics measurement	IEC 61000-4-7 (up to 32nd)
Flicker measurement	IEC 61000-4-15
Number of recording channels	1 Phase to Neutral, 2 Phase/Neutral to Ground
Recording time	1 day to 339 days depending on average time from 1 second to 20 minutes
Transients	Yes
Frequency range	50 Hz ± 1 Hz and 60 Hz ± 1 Hz
Safety Compliance (IEC 61010-2-030)	CAT II 300 V

Included Accessories

USB Cable, PowerLog Software CD, Power Cord Adapter.

Ordering Information FLK-VR1710 Voltage Quality Recorder

Portable Oscilloscopes

(P)

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ScopeMeter[™] Portable Oscilloscopes take you into territory that standard bench oscilloscopes can't readily withstand harsh, hazardous and dirty industrial environments. These hand-held instruments combine the performance of a bench oscilloscope with a multimeter and paperless recorder for installing, commissioning and maintaining industrial and electronic equipment out in the field.

Portable Oscilloscope Selection Guide

							2442	24926		2452	
						EN STA		HORE I	AU-	10-11	
		120B Serie	s			1	90 Series I	11			MDA Series III
Models	123B	124B	125B	190-062	190-102	190-104	190-202	190-204	190-502	190-504	MDA-550
Bandwidth	20 MHz	40 MHz	40 MHz	60 MHz	100 MHz	100 MHz	200 MHz	200 MHz	500 MHz	500 MHz	500 MHz
Input Channels	1		1	1			1				
2 scope/DMM Channels	•	•	•								
2 scope Channels + 1 DMM				•	•		•		•		
4 Channels						•		•		•	•
Isolated Inputs				•	•	•	•	•	•	•	•
Triggering	1			1			1				
Connect-and-View™	•	•	•	•	•	•	•	•	•	•	•
IntellaSet™ Technology	•	•	•								
Advanced Triggering				•	•	•	•	•	•	•	•
Advanced Measurement Fun	nction										
Cursors		•	•	•	•	•	•	•	•	•	•
TrendPlot™	•	•	•	•	•	•	•	•	•	•	•
ScopeRecord™	•	•	•	•	•	•	•	•	•	•	•
100 screen Replay				•	•	•	•	•	•	•	•
Industrial Bus Health			•								
Harmonics			•								•
FFT				•	•	•	•	•	•	•	•
Power Measurements			•	•	•	•	•	•	•	•	•
Waveform Mathematics			•	•	•	•	•	•	•	•	•
Guided Motor-Drive Analysi	is										
Motor Drive Input (V, I, Unbalance)											•
Motor Drive Input Harmonics (2-150)											•
Motor Drive DC Bus											•
Motor Drive Output PWM (V, I, dV/dt, overshoot)											•
Motor Drive Input PWM (V, I, dV/dt, overshoot)											•
Motor Shaft Voltage Discharges											•
IEC 61010-2-030 Safety											
CAT III 1000 V				•	•	•	•	•	•	•	•
CAT IV 600 V	•	•	•	•	•	•	•	•	•	•	•
Power											
Li-ion	•	•	•	•	•	•	•	•	•	•	•
Battery (hours)	7	7	7	3.5 (opt 8)	3.5 (opt 8)	7	3.5 (opt 8)	7	7	7	7
General Specifications											
Size (H \times W \times D)		9 × 132 × 55 .2 x 5.2 x 2.1				270) × 190 × 70	mm (10.5 × 7	7.5 × 2.8 in)		
Weight		1.4 kg (3.2 lb)				2.2	kg (4.8 lb)			
Compatible Software											
Fluke Connect™ App	•	•	•	•	•	•	•	•	•	•	•
FlukeView-2				•	•	•	•	•	•	•	٠

FlukeView™ ScopeMeter[®] Software for Documenting, Archiving and Analyzing Waveforms Get more out of your ScopeMeter with FlukeView ScopeMeter SW90W software for Windows™

- Copy screen images into your reports and documentation
- Store instrument's screen copies on the PC, in color
- Capture and store waveform data from your ScopeMeter on your PC
- Record your current waveform online
- Create and archive waveform references for easy comparison
- Copy waveform data into your spreadsheet for detailed analysis
- Export data to another analysis program
- Use cursors for parameter measurement
- Add user text to instrument setups and send them to the instrument for operator reference and instructions

Fluke MDA-550 Series III Motor Drive Analyzer



Fluke MDA-550-III



Simplify complex motor-drive troubleshooting

The Fluke MDA-550 Motor Drive Analyzer simplifies the troubleshooting process for variable frequency drives. Onscreen step-by-step guided measurements to show you where to make voltage and current connections. Preset measurement profiles ensure you capture all the data you need for each critical motor-drive section, from the input to the output, the DC bus, and the motor itself.

- Measure key motor-drive parameters including voltage, current, DC Bus voltage level and AC ripple, voltage and current unbalance and harmonics, voltage modulation, and motor shaft voltage discharges
- Perform extended harmonics measurements to identify the effects of low and high order harmonics on your electrical power system
- Conduct guided measurements for motor-drive input, DC bus, drive output, motor input and shaft measurements with graphical step-by-step voltage and current connection diagrams
- Preset measurement profiles collect data based on the • chosen test procedure and reduce the need for complex configuration
- · Capture additional parameters with full 500 MHz oscilloscope, meter and recording capability
- USB & WIFI connectivity for quick and easy data transfer
- Three-year warranty

Key Features	
Motor Drive Input	Test Points
Phase - Phase	V-A-Hz
Phase - Ground	V pk, Vmax, Vmin, V pk-to-pk, Crest factor
Voltage Unbalance	V AC+DC unbalance, V pk-to-pk
Current Unbalance	A AC+DC unbalance, A pk-to-pk
Motor Drive DC Bus	
DC	V DC, V pk-to-pk, V pk max
Ripple	V AC, V pk-to-pk, Hz
Motor Drive Output	
Voltage and Current (filtered)	V-A-Hz, V PWM, V/Hz
Voltage Unbalance	V PWM unbalance, V pk-to-pk
Current Unbalance	A AC+DC unbalance, A pk-to-pk
Voltage Modulation	Phase-phase, Phase-ground, Phase-DC+, Phase-DC- : V pwm, V pk-to-pk, Hz, V/Hz, Delta V, Delta V/s, Risetime peak, Overshoot
Motor Input	
Voltage and Current (filtered)	V-A-Hz, V PWM, V pk, A ac+dc, A pk, V/Hz, Crest factor
Voltage Unbalance	V PWM unbalance, V pk-to-pk
Current Unbalance	A AC+DC unbalance, A pk-to-pk
Voltage Modulation	Phase-phase, Phase-ground: V PWM, V pk-to-pk, Hz, V/Hz, Delta V, Delta V/s, Risetime peak, Overshoot
Motor Shaft	Shaft voltage events: V pk-to-pk, Delta V, Rise/fall time, Delta V/s, Events/s
Motor Drive Input Output and Motor Input	Voltage and Current Harmonics: V and A fundamental, Hz fundamental, %THD, %THD/TDD

Fluke Premium Care plans are available for this product. Premium Care plans provide coverage above and beyond your tool's original product warranty.

Ordering Information

FPC1S- MDA-500-1	Fluke MDA-550 Series III Standard 1 Year
FPC3S- MDA-500-1	Fluke MDA-550 Series III Standard 3 Year
FPC1G- MDA-500-1	Fluke MDA-550 Series III Gold 1 Year
FPC1G- MDA-500-1	Fluke MDA-550 Series III Gold 3 Year
FPC1G- MDA-500-1	Fluke MDA-550 Series III with Standard 1 Year Bundle

Recommended Accessories





Included Accessories

BP291 Li-Ion Battery Pack, BC190 Charger/Power Adapter, 3x VPS421 100:1 High Voltage Probes with Alligator Clips, VPS410-II-R 10:1 500 MHz Voltage Probe, 3x i400s AC Current Clamp, 1x SVS-500 Shaft Voltage Set (3x brush, Probe Holder, Two-Piece Extension Rod and Magnetic Base), Large Size, Protective Carrying Case with Rollers (C437-II), FlukeView-2 PC Software (Full Version) and WiFi Dongle.

Ordering Information

FLUKE-Motor Drive Analyzer MDA-4CH CLR PRO 550-III



Fluke ScopeMeter® 190 Series III Portable Oscilloscopes



Fluke 190-504 Series III

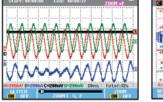


Fluke 190-204 Series III



Fluke ScopeMeter 190 Series III Portable Oscilloscopes are high-performance scopes built for harsh industrial environments. These high-performance portable oscilloscopes come with 2 or 4 independently insulated input channels, an IP51 dust and drip proof rating and a CAT III 1000 V/CAT IV 600 V safety rating. Choose from 500 MHz, 200 MHz, 100 MHz or 60 MHz bandwidth models. Now plant maintenance engineers can take a 2- or 4-channel scope into the harsh world of industrial electronics.

- Up to four independent floating isolated inputs, up to 1000V
- Up to 5 GS/s real time sampling (depending on model and channels used)
- Deep memory: 10000 points per trace waveform capture
- CAT III 1000 V/CAT IV 600 V safety rated instrument for industrial environments
- Up to seven hours of battery operation using BP291
- Security slot: lock down oscilloscope with Kensington™ lock while unattended
- IP51 rating, dust and drip-proof
- Connect-and-View[™] triggering for intelligent, automatic triggering on fast, slow and even complex signals
- Automatic capture and REPLAY of 100 screens
- ScopeRecord[™] Roll mode gives 30000 points per input channel for low frequency signal analysis
- USB & WIFI connectivity for quick & easy data transfer
- Three-year warranty



Use the 27000 points memory of ScopeRecord and zoom in for maximum detail.

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-0.000 6-17-96 - 1-10-1000	e kulên (HÊ kulê		-
+8.pau	e-ulth-mult	HPDMAT	₫le
-5.400	wr	II.	
+13.00			e
+ RU 0.580 8,509 5.86	15.40	50	

Cursors and zoom features of the Fluke 190 Series III help you to analyse the captured TrendPlot.

Specifications	190-062	190-102	190-202	190-502	190-104	190-204	190-504
Bandwidth (MHz)	60	100	200	500	100	200	500
Scope Inputs	2	2	2	2	4	4	4
Dedicated DMM	1	1	1	1	-	-	-
Dual Input Trendplot™	•	•	٠	•	-	-	-
Four Input Trendplot™	-	-	-	-	•	•	•
ScopeRecord Mode	•	•	٠	٠	٠	•	٠
Automatic Capture & Replay Mode	•	•	•	•	•	•	•
Cursors	•	•	٠	•	٠	•	•
Zoom	•	•	•	•	•	•	•
Bus Health Test Mode	-	-	-	-	-	-	-
Advanced Power Measurements	•	•	•	•	•	•	•
IEC 61010-2-030 CAT III Safety Rating	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
IEC 61010-2-030 CAT IV Safety Rating	600 V	600 V	600 V	600 V	600 V	600 V	600 V
Battery	4 hr Li–ion (8 hr Opt)	4 hr Li-ion (8 hr Opt)	7 hr Li-ion	7 hr Li–ion	7 hr Li-ion	7 hr Li-ion	7 hr Li-ion
Optical RS-232	-	-	-	-	-	-	-
Isolated USB	•	•	٠	٠	٠	•	٠
Isolated USB Memory	•	•	•	•	•	•	•

Fluke Premium Care plans are available for this product.Premium Care plans provide coverage above and beyond your tool's original product warranty.

Ordering Information

	Fluke ScopeMeter [®] 190 Series III Standard 1 Year
	Fluke ScopeMeter [®] 190 Series III Standard 3 Year
	Fluke ScopeMeter® 190 Series III Gold 1 Year
	Fluke ScopeMeter [®] 190 Series III Gold 3 Year
FLUKE- 190-504/ FPC	Fluke ScopeMeter® 190 Series III with Standard 1 Year Bundle

Included Accessories

Fluke 190 4-Channel Models: VPS410-II (200/500 MHz models) or VPS421 (60/100 MHz models) Voltage Probes, Double Capacity BP291 Li-ion Battery, BC190 Battery Charger, Hanging Strap, Adjustable Hand Strap, User Manual on CD-ROM, FlukeView[™] Demo Package and USB Interface Cable for PC connectivity.

Fluke 190 2-Channel Models:

VPS410-II (200/500 MHz models) or VPS421 (60/100 MHz models) Voltage Probes, 1 blue), Single Capacity BP290 Li-ion Battery, TL175 Test Leads.

Fluke /S (SCC-290 Kit) Models: FlukeView™ ScopeMeter™ Software and C290 Hard Carrying Case.

Ordering Information

Ŭ	
FLUKE-	ScopeMeter 60MHz,
190-062	2 Channel
FLUKE-	ScopeMeter 60MHz, 2
190-062/S	Channel with SCC-290 Kit
FLUKE-	ScopeMeter 100MHz, 2
190-102	Channel
FLUKE-	ScopeMeter 100MHz, 2
190-102/S	Channel with SCC-290 Kit
FLUKE-	ScopeMeter 100MHz,
190-104	4 Channel
FLUKE-	ScopeMeter 100MHz, 4
190-104/S	Channel with SCC-290 Kit
FLUKE-	ScopeMeter 200MHz,
190-202	2 Channel
FLUKE-	ScopeMeter 200MHz, 2
190-202/S	Channel with SCC-290 Kit
FLUKE-	ScopeMeter 200MHz,
190-204	4 Channel
FLUKE-	ScopeMeter 200MHz, 4
190-204/S	Channel with SCC-290 Kit
FLUKE-	ScopeMeter 500MHz,
190-502	2 Channel
FLUKE-	ScopeMeter 500MHz, 2
190-502/S	Channel with SCC-290 Kit
FLUKE-	ScopeMeter 500MHz,
190-504	4 Channel
FLUKE-	ScopeMeter 500MHz, 4

Fluke ScopeMeter®120B Series Industrial Hand-Held Oscilloscopes



Fluke 125B



Simplified testing, more insight and faster electro-mechanical troubleshooting

The compact ScopeMeter 120B Series, is the rugged oscilloscope solution for industrial electrical and electromechanical equipment troubleshooting and maintenance applications. It's a truly integrated test tool, with oscilloscope, multimeter and high-speed recorder in one easy-to-use instrument. The ScopeMeter 120B Series also integrates with Fluke Connect[™] mobile app and FlukeView[™] for ScopeMeter software to enable further collaboration, data analysis and archiving of critical test information.

The 120B Series Industrial ScopeMeter Test Tools include innovative functions designed to help technicians troubleshoot faster and get the answers they need to keep their systems up and running. Display Waveforms with Connect-and-View[™] trigger and setup technology, and automatically view related numerical measurements using Fluke IntellaSet[™] technology, all without making manual measurement adjustments.

- Dual-input digital oscilloscope and multimeter
- 40 MHz or 20 MHz oscilloscope bandwidth
- Two 5000-count true-RMS digital multimeters
- Connect-and-View[™] trigger simplicity for hands-off operation
- IntellaSet[™] technology automatically and intelligently adjusts numerical readout based on the measured signal
- Dual-input waveform and meter reading recorder for trending data over extended periods
- With Recorder Event Detect capabilities and expandable micro SD memory, recording can be performed for up to 14 days
- The ScopeMeter 125B Bus Health Test analyzes the electrical signals on the Industrial Network Bus and gives a clear "Good", "Weak" or "Bad" indication mark for each of the relevant parameters used in CAN-bus, Profi-bus, Foundation Field, RS2-232 and more
- Three-year warranty

Specifications	123B	124B	125B
Full Function Dual Input Scope and Meter	•	•	•
Oscilloscope Bandwidth (MHz)	20	40	40
Meter and Scope Recorder	•	•	•
Scope Cursor Measurements	-	•	•
Power and Harmonics Measurements	-	-	•
Bus Health	-	-	•
10:1 Voltage Probe	-	•	•
i400s AC Current Clamp	-	-	•



STL120-IV HC120-II Shielded Test Lead Set CAT IV 600 V Set of 2 Hook Clips

BB120-II VPS41 Set of 2 Banana to BNC Adapter 40 MHz CAT IV 600 V



i400s i410 AC Current Clamp AC/DC Current Clamp





Fluke i5s AC Current Clamp C120B Soft Carrying Case



SP120B Screen Protector SCC120B Accessory K

Included Accessories

Fluke 120B: Li-Ion Battery Pack, Charger/Power Adapter, 10:1 Voltage Probe (124B, 125B), i400s AC Current Clamp (125B), 2 Shielded Test Leads with Ground Leads, Black Test Lead, Red and Blue Hook Clips, Banana to BNC Adapter, USB Angled Adapter and WiFi USB Adapter.

Fluke 120B/S: Also include Soft Carry Case, FlukeView™ for Windows™ Software, Magnetic Hanger and Screen Protector.

Ordering Information

oracing m	
FLUKE-123B	Industrial 20MHz ScopeMeter Kit
FLUKE- 123B/S	Industrial 20MHz ScopeMeter Kit
FLUKE-124B	Industrial 40MHz ScopeMeter Kit
FLUKE- 124B/S	Industrial 40MHz ScopeMeter Kit
FLUKE-125B	Industrial 40MHz ScopeMeter Kit
FLUKE- 125B/S	Industrial 40MHz ScopeMeter Kit

Process Calibration Tools

100.000 pa Serbant: 100.000 Stop Size: 50.000

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Whether you're calibrating pressure, temperature, mA loop, or a combination of these, Fluke process calibration tools are easy to use and deliver the accuracy and rugged reliability you need for bench or field use.

PROCESS CALIBRATION TOOLS

Working in a process environment such as pharmaceutical manufacturing, refining, or other industrial areas can be challenging. Whether you're working at a bench, out in the plant, or in the field, you need accurate tools that you can count on.

Finding the right tools for the specific challenges you face every day is important, so we've provided an 'at-a-glance' guide to the wide range of multifunction, mA loop, pressure and temperature calibrators that we carry.

For complete information on all your calibration needs visit Fluke.com/ProcessTools or one of the product pages within this catalog.



mA Loop Calibration

Loop calibrators are essential tools for working with 4–20 mA current loops. Fluke Loop Calibrators provide mA sourcing, simulation and measurement, readouts in both mA and % of span, 24 V loop supply, simple operation, and accuracy you can count on.

Fluke offers the widest variety of mA calibration and test tools in the industry to address virtually all types of mA loop testing.

See pages 113 to 114

Electrical and Multifunction Calibration

Fluke Multifunction Calibration Tools are designed to calibrate almost anything. These calibration tools source and measure almost all process parameters, and documenting models even document the results.

Fluke offers a broad range of field and bench calibrators to source, simulate and measure pressure, temperature and electrical signals, to help you verify and adjust your equipment for almost any process measurement or control parameter.

See pages 115





Temperature Calibration

Fluke Temperature Calibrators simulate process sensors for testing temperature instrumentation. Specifically designed for the field, these lightweight compact tools are EMI tolerant and offer an easy-to-use single push button interface. When paired with a temperature sensor they can take high accuracy temperature measurements to verify process temperatures and ensure the highest product quality and safety.

Fluke offers a variety of bench and field temperature calibrators designed for your unique calibration and testing requirements.

See pages 118 to 122

Pressure Calibration

Instrumentation is found in virtually every process plant. Periodic calibration of these instruments is required to keep plants operating efficiently and safely. Fluke offers a wide range of pressure calibration tools with precision pressure measurement from 15 psi/1 bar to 10000 psi/690 bar boasting 0.02% full-scale accuracy to help you quickly and reliably calibrate your pressure instruments.

You'll find everything from simple test gauges to calibrators with built in electric test pumps. All are easy to use and feature rugged and reliable construction and an industry best 3-year warranty.

See pages 124 to 131

IKE

Maintenance Manager

Focus: Maintaining plant uptime and maintenance efficiency

What issues do you face?

- Ensuring continuous uptime
- Maintaining good ROI for equipment
- Compliance
- Process improvement
- Increase efficiency

Fluke solutions:

- Temperature
- **Pressure**
- 🚸 Standards
- A Process tools

Field Calibration Technician

Focus: Calibrating and verifying measurement devices

What issues do you face?

- Making accurate measurements
- Documenting procedures
- Increasing throughput

Fluke solutions:

- Temperature
- Pressure
- 💠 Standards
- A Process tools
- Software
- Field Metrology Wells

Quality Manager

Focus: Maintaining and documenting product quality

What issues do you face?

- Complying with quality regulations
- Maintaining documentation of processes

Fluke solutions:

- Temperature
- Pressure
- 🚸 Standards
- A Process tools
- Software

Instrumentation Technician

Focus: Maintaining and verifying instrumentation throughout the plant

What issues do you face?

- Monitor and maintain sensors and transmissions
- Accurate measurements

Fluke solutions:

- Temperature
- Pressure
- 💠 Standards
- A Process tools
- Software
- Field Metrology Wells

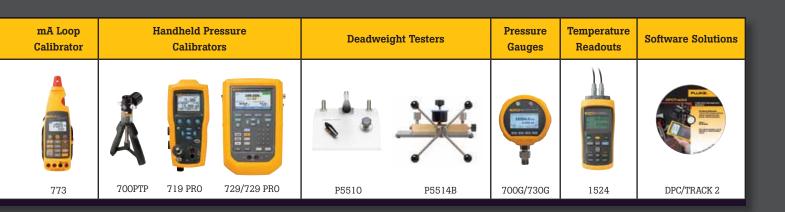


Process Calibration Solutions

Get more information on Fluke Process Calibration solutions at https://www.fluke.com/en-gb/products/calibration-tools Based on you. Built by Fluke.

* Diagram is not intended to be an exact representation. Diagram components are not to scale and are for illustration purposes only.

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	Process Calibators	Multifi Process C	Multifunction Process Calibrators	Tempe	Temperature Calibrators	rators		Press	Pressure Calibrators	ors		Auromatic Pressure Calibrator			Loop Calibrators	brators			Process- Meters [™]
	754 / 753	725	726	724	714B	7128	718 / 718Еж	717	719	719Pro	721	729	715	705	TOT	012 / / H602 / H602	112	772 / 773	789 ⁵ / 787B
Voltage DC	300 V	30 V	30V	30 V	75 mV					30 V	30 V	30 V	10V	28 V	28 V	30 V		- / 30 V	1 000 V
Voltage AC (True RMS)	300 V																		1 000 V
Resistance	10 kΩ	3200 Ω	4000 Ω	3200 Ω		4000 Ω													40 MΩ
Current DC	110 mA	24 mA	24 mÅ	24 mÅ	24 mÅ	24 mÅ	24 mA	24 mÅ	24 mA	24 mÅ	24 mA	24 mA	24 mÅ	24 mÅ	24 mÅ	24 mÅ	100 mÅ	100 mÅ	30 mA, 1 A
Current AC																			
Frequency	50 kHz	10 kHz	15 kHz																20 kHz
Pressure	•	•					-12 to 300 psi ² (4 ranges)	-12 to 10,000 psi ² (10 ranges)	-12 to 100 psi ² (2 ranges)	-12 to 300 psi ² (3 ranges)	input 1: -0.97 bar to 2,48 bar input 2: -0.83 bar to 345 bar ³	-12 to 300 psi ² (3 ranges)							
Temperature						1				-50° C to 15	-50° C to 150° C ⁴ (-58° F to 302° F ⁴)) 302° F4)							
Temperature: RTD types	œ	Ζ	8	Ζ		13													
TC types	13	12	12	12	17														
Source/Simulate																			
Voltage DC	15 V	10 V	20 V	10 V	75 mV							30 V	10 V					-/ 10 V	
Resistance	10 kΩ	3200 Ω	4000 Ω	3200 N		4000 Ω													
mA DC/% scale	22 mA	24 mA	24 mA						•	•		24 mA	24 mÅ	24 mA	24 mÅ	•		24 mA	24 mA
mA source; auto step, auto ramp	•	•	•									•	•	•	•	•		•	•
Frequency	50 kHz	10 kHz	15 kHz																
Temperature: RTD types	œ	Ζ	00	Ζ		13													
Temperature: TC types	13	10	10	10	17														
Record																			
Min/Max							•	•	•	•	•	•							
Hold							•	•	•								•	•	•
As Found/ As Left results	•											•							
Log data	•											•				•/-			
Upload data to PC	•											•				•/-			•
Remote operation		-/•	•									•							
Features																			
Loop supply	26 V	24 V/ 12 V	24 V	24 V			24V/-	24 V	24 V	24 V	24 V	24 V	24V	24 V	24 V	24 V		24 V	24 V/-
HART TM communication	754 only											•				•/-			
Integrated hand pressure pump							•												
Electric Pump									•	•	•	•							
Intrinsically safe (ATEX)							718 Ex				721Ex								
Ttraceable certification	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Warranty in years	ę	က	ი	ი	c	ო	c	ო	ო	ო	ო	ო	ო	ო	ო	ო	ო	ო	ç
¹ Fluke 750 Pressure Modules Required ² Ranges for the internal sensor	Required r	³ Ranges dep ⁴ By using op	³ Ranges depending on version ⁴ By using optional 720 RTD Probe accessory	on Probe accesso		Fluke 789 & 7 Fluke ir3000 I	87B are Fluke (°C Connector (sc	⁵ Fluke 789 & 787B are Fluke Connect TM compatible with Fluke ir3000 FC Connector (sold separately)	ttible with										

Process Calibration Tools Selection Guide

Fluke 787B and 789 ProcessMeter™







Double the troubleshooting power so you can do more, while carrying a lot less

The Fluke 787B and 789 ProcessMeter[™] double troubleshooting capabilities by combining the power of a safety-rated digital multimeter and mA loop calibrator into a single, compact test tool. Whether you only need to source and simulate mA, or need a 24 V loop power supply, Fluke has a ProcessMeter[™] test tool designed specifically to meet your needs.

Fluke 787B and 789 key features

- 20 mA DC current source/measure/simulate
- Simultaneous mA and % of scale readout
- IEC 61010-2-030: CAT III 1000 V, CAT IV 600 V
- Fluke Connect[™] compatibility for wireless data logging (with ir3000FC module)
- Precision 1000 V, 440 mA true-RMS digital multimeter
- Frequency measurement to 20 kHz
- Min/Max/Average/Hold/Relative modes
- Diode test and continuity beeper
- Manual step mA output (100%, 25%, Coarse, Fine) plus Auto Step and Auto Ramp
- Externally accessible battery for easy battery changes
- Three-year warranty

Fluke 789 additional features

- 24 V loop power supply
- HART mode setting with loop power (adds 250 ohm resistor)

Measurement Function	Range and Resolution	Best Accuracy (% of reading + LSD)
V DC	400.0 mV, 4.00 V, 40.00 V, 400.0 V, 1000 V	0.1% + 1
V AC (True-RMS)	400.0 mV, 4.00 V, 40.00 V, 400.0 V, 1000 V	0.7% + 2
mA DC	30.00 mA	0.05% + 2
A DC	1.00 A (0.44 A continuous)	0.2% + 2
A AC	1.00 A (0.44 A continuous)	1% + 2
Resistance	400.0 Ω, 4.00 kΩ, 40.00 kΩ, 400.0 kΩ, 4.0 MΩ, 40 MΩ	0.2% + 1
Frequency (0.5 Hz to 20 kHz)	199.99 Hz, 1999.9 Hz, 19.99 kHz	0.005% + 1
Diode Test	2.00 V (shows diode voltage drop)	2% + 1
Continuity	Beeps for resistance < approx. 100 ohms	

Output Function	Range and Resolution	Drive Capability	Accuracy
DC Current Output	0.00 to 20.00 mA or 4.00 to 20.00	24 V compliance or,	0.05%
(Internal Battery	mA, (selectable at power-up)	1200 ohms,	
Operation)	Over-range to 24.00 mA	@ 20 mA	
DC Current Simulate	0.00 to 20.00 mA or 4.00 to 20.00	1000 ohms,	0.05%
(Ext. 15 V to 48 V loop	mA, (selectable at power-up)	@ 20 mA	
supply)	Over-range to 24.00 mA		
24 V Loop Supply*	Minimum 24 V	250 ohms @ 20 mA	> 24 V
Current Adjustment Modes	Manual: Coarse, Fine, 25% and 100% step		
	Automatic: Slow Ramp, Fast Ramp, 25% step		

*24 V Loop Supply available on 789 ProcessMeter™only.



Fluke Connect™ 789 ProcessMeter™ and Temperature Kit

Included Accessories

TL71 Test Lead Set, AC72 Alligator Clips, Four AA Alkaline Batteries, User Manual and Quick Reference Guide.

Ordering Information

ProcessMeter™
ProcessMeter™
Fluke Connect 789 ProcessMeter [™] & Temperature Kit
Fluke Connect™ Infrared Connector
FlukeView™ Forms Software (incl. Interface Cable)

Contact your local distributor for price and availability.

Process Calibration Tools 111

Process Calibration Tools — Loop Calibration

Fluke 771, 772 and 773 mA Process Clamp Meters



Fluke 771



Don't break the loop on 4-20 mA signal measurements and save time with the Fluke 771, 772 and 773 Milliamp Process Clamp Meters. Three-year warranty, (one-year provided on mA clamp assembly and cable).

Use the Fluke 772 and 773 to:

- Source 4-20 mA signals for testing control system I/O or I/Ps
- Simulate 4-20 mA signals for testing control system I/O
- · Measure 4-20 mA signals with in-circuit measurement
- Power a transmitter with the 24 V loop power supply
- Automatically ramp and step change the 4-20 mA output for remote testing

Use the Fluke 773 to:

- · Measure DC voltage to verify 24 V power supplies or voltage I/O signals
- · Source DC voltage to test voltage input devices
- Scaled mA output signal enables a logging DMM (289) to record 4-20 mA signal without breaking the loop
- mA in/out: simultaneously source a mA signal while measuring a mA signal with the clamp

	mA measure w/jaw	mA measure in circuit	mA source	mA sim	Loop power 24 V	V DC source 0-10 V	V DC measure 0-30 V	Scaled mA output to mA input	mA in/ out
771	•	-	-	-	-	—	-	-	-
772	•	•	•	٠	•	_	-	_	-
773	•	•	•	•	•	•	•	•	•

Specifications	Function	Resolution and range	Accuracy	Notes
771, 772, 773	mA measurement	0 to 20.99 mA	0.2% + 5 counts	Measured by clamp
		21.0 mA to 100.0 mA	1% + 5 counts	-
772 and 773	mA measurement	0 to 24.00 mA	0.2% + 2 counts	Measured in series with test jacks
772 and 773	mA source	0 to 24.00 mA	0.2% + 2 counts	Maximum mA drive: 24 mA into 1000 ohms
772 and 773	mA simulate	0 to 24.00 mA	0.2% + 2 counts	Maximum voltage 50 V DC
773	Voltage source	0 to 10.00 V DC	0.2% + 2 counts	2 mA maximum drive current
773	Voltage measure	0 to 30.00 V DC	0.2% + 2 counts	-

	771	772	773
Battery	Two 1.5 V, Alkaline, IEC LR6	Four 1.5 V, Alkal	ine, IEC LR6
Working hours	40 hours typical	12 hours @ 12 mA s	ource into 500 Ω
Size (H×W×L)	59 mm × 38 mm × 212 mm (2.32 in × 1.5 in × 8.35 in)	43.7 mm × 70 mr (2.87 in × 5.75 i	
Weight	260 g (9.17 oz)	410 g (14	.46 oz)
Operating temperature	-10° C	to 50°C (14° F to 122° F)	
Ingress Protection (IEC 60529)		IP40	

Recommended Accessories



Fluke 771, 772 and 773 mA **Process Clamp Meters pay for** themselves

- The more you use them the more money you save
- Measuring 4-20 mA signals (five) times without operator intervention can pay for the 771
- Saving a trip back to shop to get a loop calibrator can pay for the price difference of the 772
- Saving a trip back to the shop for a voltage test source can pay for the price difference of the 773



Included Accessories

Fluke 771: Soft Carrying Case, User Manual.

Fluke 772/773: Four AA Alkaline Batteries (installed), Soft Carrying Case, TL75 Test Leads, AC 72 Detachable Clip, TL940 Mini-hook Test Leads, Instruction Sheet, Hanging Tool with Hook and Loop Strap.

Ordering Information

FLUKE-771	Milliamp Process Clamp Meter
FLUKE-772	Milliamp Process Clamp Meter
FLUKE-773	Milliamp Process Clamp Meter



Process Calibration Tools — Loop Calibration

Fluke 709, 709H and 710 Precision Loop Calibrators



Fluke 710



Fluke 709H



HART is a registered trade mark of the HART Communications Foundation.

The Fluke 709 and 709H mA Loop Calibrators and 710 Valve Tester are designed to save time and produce high-quality results. These calibrators are built around a user-friendly interface with a Quick-Set rotary encoder knob. This tool reduces the time it takes to measure or source current, and power up a loop. The protective holster easily fits into a technician's hand and the large backlit display is easy to read, even in dark, cramped worked areas.

- Best-in-class accuracy at 0.01% reading
- HART[™] Communications (709H, 710) to communicate with and test HART smart instruments
- Compact rugged design
- Intuitive user interface with quick-set knob for fast setup, easy to use
- 24 V DC loop power with mA measure mode
- Resolution of 1 µA on mA ranges
- Built in selectable 250 Ω resistor for HART • communications
- · Simple two wire connection for all measurements
- · Valve test (source and simulate defined mA values with % keys for valve testing)
- Upload logged mA measurements and HART device data using the 709H with optional 709H/TRACK software
- Three-year warranty

HART[™] Communication

The Fluke 709H offers a built-in HART modem to provide the communication capability to perform the following commands:

- Read message, tag, descriptor and calibration date
- · Read sensor PV information and PV output
- information
- Read long tag
- Write PV ranges (upper and lower)
- · Enter/exit fixed current mode and set zero offset
- Trim DAC zero (mA output 4 mA) and trim DAC gain (mA output 20 mA)

Valve Testing

The Fluke 710 has powerful valve-testing functions including preconfigured valve signature test, speed test, step test, manual test and bump/partial stroke test. The instrument comes with ValveTrack[™] desktop software where you can upload valve test results, logged measurements and HART device configurations captured in the field.

Key Features	709	709H	710
mA measure (range and accuracy)	0-24 mA @ 0.01%	0-24 mA @ 0.01%	0-24 mA @ 0.01%
mA source/simulate	0-24 mA @ 0.01%	0-24 mA @ 0.01%	0-24 mA @ 0.01%
DC volts measure	0-30 V @ 0.01%	0-30 V @ 0.01%	0-30 V @ 0.01%
DC volts source			
24 V loop power	•	•	•
Auto step/ramp	•	•	•
Documenting and log data		Option	•
HART communication		•	•
Valve testing	Analog	Analog	Analog/HART



SureGrip™ Alligator Clips



Included Accessories

709: AC175 Alligator Clip Set, TL75 Test Leads, Soft Case, Six AAA Batteries (installed), Product Manual (CD), Quick Reference Guide, Safety Information.

709H: 754-8016 Alligator Clip Set, 75X-8014 Stackable Lead Set, TP220-4201 Test Probes, AC280-5001 SureGrip Hook Clips, Soft Case, Six AAA Batteries (installed), Product Manual (CD), Quick Reference Guide, Safety Information.

710: Stackable Test Lead Set, **Extended Tooth Alligator Clip** Set, TP220 Test Probes, AC280 SureGrip[™] Hook Clips, Lemo to USB Cable ValveTrack™ Software (free download), Softcase, Six AAA batteries (installed).

Note: All models include Traceable Calibration Certificate.

Ordering Information

FLUKE-709	Precision Loop Calibrator
FLUKE- 709H	Precision Loop Calibrator with HART™
FLUKE- 709H/ TRACK	HART™ Data-Logging Communications Software
FLUKE-710	Valve Tester

Fluke 715, 707, and 705 Loop Calibrators

Complete family of Volt/mA calibrators



Fluke 705





Fluke 707

Fluke 715 Volt/mA Calibrator

- Source voltage to 200 mV or 20 V
- Measure loop current (0 to 20 mA, 4-20 mA) signals • with 0.01% accuracy and 1 μA resolution
- Measure voltage output process signals from PLCs, transmitters
- Source or simulate 4-20 mA loop current
- 24 V loop supply with simultaneous current measurement
- Ramp and Step Ramp output functions
- Three-year warranty

Fluke 707 and 705

- Innovative output adjustment dial on 707 provides 1 μA and 100 μA resolution and one-hand operation
- Large display and simple interface for ease of use
- Simultaneous mA and % readout for guick, easy interpretation of readings
- mA accuracy of 0.01% on the Fluke 707 and 0.02% on the 705
- HART mode on 707 connects 250 ohm resistor in series with 24 V loop for compatibility with HART™ communicators
- Push button 25% steps for fast, easy linearity checks
- "Span Check" for fast confirmation of zero and span
- · Selectable slow and fast linear step ramp provide ramping outputs for valve slewing, remote testing and loop functional tests
- 24 V internal loop supply, so you can power and read a transmitter at the same time without carrying a DMM

715

0 mV to 200 mV / 0 V to 25 V

10 µV / 1 mV

0.01% Rdg + 2 LSD

0 mA to 24 mA

0.001 mA

0.01% + 2 LSD

0 mA to 20 mA or 4 mA to 20 mA

0.01% Rdg + 2 LSD

1000 Ω @ 24 mA

mA or %

0 mV to 200 mV or 0 V to 20 V

• 0 to 20 mA or 4-20 mA default start up modes

24 V

Yes

Yes

18 hours typical, at 12 mA current source

Three-year warranty

705/707

0 V to 28 V

1 mV 705: 0.02% Rdg + 1 LSD

707: 0.01% Rdg + 2 LSD

0 mA to 24 mA

0.001 mA

705: 0.02% Rdg + 2 LSD

707: 0.01% Rdg + 2 LSD

0 mA to 20 mA or 4 mA to 20 mA

705: 0.02% Rdg + 2 LSD 707: 0.01% Rdg + 2 LSD

705: 1000 Ω @ 24 mA

707: 1200 Ω @ 24 mA

Yes

Voltage measurement

Range

Resolution

Accuracy

Range

Resolution

Accuracy

Range

span

Accuracy

Current measuren

Current sourcing

Drive capability

measuring mA

Span Check

Battery life

Loop power while

Display current and % of

Auto step, auto ramp

Voltage sourcing



Included Accessories

Fluke 705/707: Test Leads, AC175 Alligator Clips, Single 9V Alkaline Battery, Instruction Sheet, Traceable Calibration Certificate.

Fluke 715: Yellow Holster (H80M excl. TPAK), Test Leads and AC175 Alligator Clips, Single 9V Alkaline Battery, Instruction Sheet, Traceable Calibration Certificate.

Ordering Information

FLUKE-705	Loop Calibrator
FLUKE-707	Loop Calibrator
FLUKE-715	Volt/mA Calibrator

Contact your local distributor for price and availability.





Heavy Duty Test Lead Set



Fluke 725 and 726 Multifunction **Process Calibrators**





More calibration power!

- Two separate channels; measure, source and view process signals simultaneously
- Measure volts, mA, RTDs, thermocouples, frequency, and resistance to test sensors and transmitters
- Source/simulate volts, mA, thermocouples, RTDs, frequency, and pressure to calibrate transmitters
- Measure pressure using any of 50 Fluke 750Pxx • Pressure Modules
- Source mA with simultaneous pressure measurement to conduct valve and I/P tests
- · Perform fast linearity tests with auto step and auto ramp
- Power transmitters during test using 24 V loop supply • and simultaneous mA measurement
- Store frequently-used test setups for later use
- Three-year warranty

726 additional features:

- More precise measurement and calibration source performance, accuracies of 0.01%
- Transmitter error % calculation
- Memory storage for up to 8 calibration results
- Frequency totalizer and frequency pulse train source mode
- HART mode inserts 250 ohm resistor in mA measure and source for compatibility with HART instrumentation
- · Integrated pressure switch test
- · Custom RTD curves, add calibration constants for certified RTD probes for enhanced temperature measurement

Function or Source	Range or Type	Resolution	Accu	racy	No	tes
Voltage	0 to 100 mV 725: 0 to 10V (source) 0 to 20V (source) 725/726: 0 to 30V (measure)	0.01 mV 0.001 V 0.001 V 0.001 V	0.01 0.029 2 LSE	% Rdg +	Ma	x load, 1 mA
mĂ	0 to 24	0.001 mA		6; 0.02% ⊦2 LSD	72	x load, 5/726: 00 Ω
mV (TC terminals)	-10.00 mV to +75.00 mV	0.01 mV	0.01 0.02 range			
Ohms	15 Ω to 3200 Ω 5 Ω to 4000 Ω	0.01 Ω to 0.1 Ω	0.10 0.01	Ω to 1.0 Ω %		
Hz - CPM	2.0 to 1000 CPM 1 to 1000 Hz 1.0 to 10.0 kHz 10.0 to 15.0 kHz	0.1 CPM 1 Hz 0.1 kHz 0.1 kHz	±0.08 ±0.08 ±0.28 ±0.0	5% 5%	5 V 1 V squ	urce; p-p 7 - 20 V p-p larewave, 1 V offset
Loop Supply	725/726: 24 V DC	N/A	10%		-	
T/C	J, K, T, E, L, N, U, XK	0.1°C	to 0.7 to 0.2	-		
T/C	B, R, S, BP	1°C	to 1.7 to 1.2	-		
RTDs	Cu (10) , Ni 120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916), Pt 100 (3926)	0.01°C 0.1°C	to 0.2	15°C		
Simultaneous func	tion capability			Channel	A	Channel B

Simultaneous function capability	Channel A	Channel D
24.00 mA DC	M	M or S
24.00 mA DC with 24 V loop supply	M	-
100.00 mV DC	-	M or S
30.00 V DC measure	M	-
20.00 V DC measure; 10.00 V DC source; 20.00 V DC source	-	M or S
15 to 3200 Ohms (725); 5 to 4000 Ohms (726)	-	M or S
Thermocouple J, K, T, E, R, S, B, M, L, U, N, XK, BP	-	M or S
RTD Cu 10 , Ni120; Pt100 (392); Pt100 (JIS); Pt100, 200, 500, 1000 (385), XK and BP	-	M or S
Pressure (requires Fluke 750PXX Modules)	M	M used as S
Frequency; 10 kHz; (15 kHz)	-	M or S

M = Measure, S = Source/Simulate

Unique 726 features are in bold

Recommended Accessories



TL220 SureGrip™ Industrial Test Lead Set



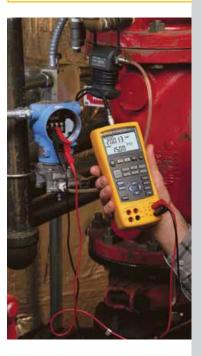
80PK-27 Industrial Surface Temperature Probe





Process Calibration Tools — Multifunction Calibration





Included Accessories

TL75 Test Lead Set (TL75), AC70A Test Clip Set (725), AC72 Test Clip Set (726), Stackable Test Lead Set, Four AA Batteries, Traceable Calibration Certificate.

Ordering Information

FLUKE-725 Multifunction **Process Calibrator**

FLUKE-726 Precision Multifunction **Process Calibrator**

Fluke 750 Series Documenting Process Calibrators



HART is a registered trade mark of the HART Communications Foundation.

Whether you're calibrating instruments, troubleshooting a problem or running routine maintenance, Fluke's 753 and 754 Series Process Calibrators can help you get the job done faster. They do so many different tasks, so quickly and so well and they are the only process calibrators you need to carry.

- Measure volts, mA, RTDs, thermocouples, frequency, and ohms to test sensors, transmitters etc.
- Source/simulate volts, mA, thermocouples, RTDs, frequency, ohms, and pressure to calibrate transmitters
- Power transmitters during test using loop supply with simultaneous mA measurement
- Measure pressure using any of Fluke's 50 pressure modules
- Measure and source simultaneously with one compact, rugged, reliable tool
- Create and run automated as-found/as-left procedures to satisfy quality programs or regulations and record and document results.
- Advanced features like autostep, custom units, user entered values during test, one-point and two-point switch testing, square root DP flow testing, programmable measurement delay and more
- Control the temperature of selected HART[™] Scientific Dry Blocks
- Handle fast pulsed RTD transmitters and PLCs in RTD source mode with 1 ms response time
- Three-year warranty

Fluke 753: A complete Documenting Calibrator

The Fluke 753 is a complete multifunction documenting calibrator. It includes a PC interface that lets you load procedures, lists and instructions created with software or unload data for printing, archiving, and analysis. The 753 can hold a full week of calibrations and procedures.

Fluke 754: Get HART-ability™

The Fluke 754 offers all of the capabilities of the 753, plus the ability to calibrate, maintain and troubleshoot HART instrumentation. Integrated HART communication functions permit you to monitor, control and calibrate HART instrumentation. It handles fast pulsed instruments such as RTD transmitters and PLCs responding to pulses within 1 ms.

Instrumentation Management Software

The Fluke 753 and 754 are compatible with Fluke 750SW DPC/TRACK2 software and with software from Cornerstone, Emerson, Honeywell, On Time Support, Prime Technologies, Yokogowa, Intools, Meridium.

For more information, visit www.fluke.com

Functions	Measure	Sourcing
DC voltage	0.02% reading + 0.005% full scale	0.01% output + 0.005% full scale
DC current	0.01% reading + 5 µA	0.01% output + 0.003 mA
Resistance	0.05% reading + 50 mΩ	0.01% output + 240 mΩ
Frequency	0 to 50kKHz, ±0.5 Hz to 1100 Hz	0 to 50 kHz, ±0.1 Hz to 1099.9 Hz
Thermocouples	0.3° C (0.54° F)	0.2° C (0.36° F)
RTDs	0.3° C (0.54° F)	0.1° C (0.18° F)
Pressure To 0.02% of full scale, per pressure mode		le specifications

General Specifications

Battery life	Typically over eight hours
Internal battery pack	Li ion 4400 mAh
Battery replacement	Via twist lock fastener without opening calibrator
Weight	1.2 kg (2.7 lb)
Size (HxWxD)	136 x 245 x 63 mm (5.4 x 9.6 x 2.5 in)
RTDs	0.3° C
Pressure	To 0.02% of full scale, per pressure module specifications - see page 124



Purchase the Fluke 754 with the Fluke DPC/TRACK 2^{TM} software at a special bundle package price.

Included Accessories

Stackable Test Leads (3 sets), TP220 Test Probes (3 sets) with extended Tooth Alligator Clips (3 sets), AC280 Hook Clips (2 sets), BP7240 Li-ion Battery Pack, BC7240 Battery Charger, C799 Field Soft Case, USB Communication Cable, Getting Started Guide, Instruction Manual on CDROM, Traceable Certificate of Calibration, DPCTrack™2 Sample Software that enables upload and printing of calibration records, HART™ Communication Cable (754 only).

Ordering Information

FLUKE-753	Documenting Process Calibrator
FLUKE-754	Documenting Process Calibrator HART™
FLUKE-754/ 750SW	754DPC and 750SW DPCTRACK2 Bundle Package
FLUKE-750SW	DPC/TRACK2 Software

Fluke 154 HART[™] Calibration Assistant





Fluke 154



HART[™] Calibration assistance at your fingertips. Combine with a Fluke Calibrator for a total HART **Calibration Solution.**

The Fluke 154 puts HART device configuration at your fingertips. An Android[™] based tablet user interface makes HART configuration easy. The external wireless modem allows you to connect the modem to the transmitter being tested so you can communicate to the device remotely. HART transmitters can often be found in confined spaces that are difficult to access, or are out of reach. The Fluke 154 helps reduce the need to stand right next to the device being tested or configured so you can work from a safer, more convenient location.

When you combine the Fluke 154 Communicator with a Fluke 750 Series Documenting Process Calibrator, or a Fluke 720 Series Multifunction Process Calibrator you have a complete HART calibration and configuration solution.

- Full HART Device Description (DD) support of all HART devices
- Configure HART devices
- Perform HART trim on HART devices when used with a Fluke 750 or 720 Series Calibrator
- · Monitor device PV, SV, TV, QV and other measured HART variables
- Quarterly HART DD updates for free
- Convenient wireless connectivity to HART • modem
- · Easy to use, fast connect and view HART data
- Store HART device configurations
- Long range wireless communication up to 76.2 m (250 ft)
- Three-year warranty

Tablet	
Operating System	Android 5.0 or newer
Processor	ARM or Atom
Memory RAM	1 GB
Memory ROM	2 GB
Screen	960 × 540 qHD
Communication Port	Bluetooth
HART™ Modem	
Enclosure	
Dimensions (LxWxH)	10.16 x 2.5 x 6.9 cm (4 x 1 x 2.75 in)
Total Unit Weight	0.16 kg (0.36 lbs)
HART Cable Length	1.2 m (4 ft)
HART Cable Connectors	Mini-Grabber
HART™ Interface	
Interface	Capacitive coupling
Output	600 mVpp
Leakage	< 10 uA
Connections	Across loop resistor or HART field device
Specifications	HART 4, HART 5, HART 6, HART 7
HART Physical Layer Spec	HCF_SPEC-54
Specification	Bluetooth v2.0
Frequency	2.4 GHz
Class 1 Master Distance	83.8 m (275 ft)
Battery Type	Rechargeable Li-ion
Battery Life	19 hours continuous use
Humidity	0% to 90% (non-condensing)



Included Accessories

Tablet Charger and USB, Micro-cable, Fluke HART[™] App (installed), HART Modem, USB Mini-Cable, Hook Test Clips, Alligator Clips, Magnetic Hanging Strap, Case, Manual installed on Tablet.

Ordering Information

Fluke 154 HART Calibration Assistant



Fluke 712B, 714B and 724 **Temperature Calibrators**



Fluke 714B



Fluke 712B

© SE

Accuracy and simplicity

The Fluke 712B and 714B are designed for both simplicity, ease of use and high accuracy. They are a powerful combination of temperature and loop calibration.

Fluke 714B Thermocouple Calibrator

- Measure and simulate 17 different thermocouple types and millivolts
- Measure 4-20 mA signals while simultaneously sourcing a temperature signal
- · Hanging tool designed in and included with every unit
- Configurable 0% and 100% source settings for quick 25% linearity checks
- Linear ramp and 25% step auto ramp based on 0% and 100% settings
- · Dual inputs and backlit display for easy interpretation of measurements
- · Power-down settings remembered at power up for easy restart of tests
- 1 and 2 year specifications and traceable certificate of calibration
- Three-year warranty

Fluke 712B RTD Calibrator

- Measure and simulate 13 different RTD types and resistance
- Measure 4-20 mA signals while simultaneously sourcing a temperature signal
- Configurable 0% and 100% source settings for quick 25%linearity checks
- Linear ramp and 25% step auto ramp based on 0% and 100% settings
- Dual inputs and backlit display for easy interpretation of measurements
- 1-year and 2-year specifications and traceable certificate of calibration
- Three-year warranty

General Specifications	712B	714B
Operating Temperature	-10° C to 50° C (14° F to 122	° F)
Operating Altitude	2000 m (6561 ft)	
Relative Humidity (% RH operating without condensation)	Non condensing 90% (10° C to 30° C (1 75% (30° C to 40° C (86° F to 10 45% (40° C to 50° C (104° F to 122° F)) (Wit)4° F)),
Vibration Requirements	MIL-T-28800E, Class 2	
Drop Test Requirements	1 m (3.28 ft)	
Ingress Protection	IEC 60529: IP52	
Safety	IEC 61010-1, Max 30 V to earth, Pollut	ion Degree 2
Power Supply	Four AA NEDA 15A IEC LR6 bat	teries
DC mA Measurement		
Resolution	0-24 mA	
Range	0.001 mA	
Accuracy (% of reading + counts)	0.01% + 2 μA	
Ohms Measurement		
Ohms range	0.00 Ω to 400.00 Ω, 400.0 Ω to 4000.0 Ω	
Accuracy (% of reading +counts)	0.01% + 0.05 Ω, 0.01% + 0.5 Ω	
Ohms Source		
Ohms Range	1.0 Ω to 400.0 Ω, 1.00 Ω to 400.00 Ω, 400.0 Ω to 1500.0 Ω, 1500.0 Ω to 4000.0 Ω	
Accuracy (% of reading + counts)	0.01% + 0.1 Ω, 0.01% + 0.05 Ω, 0.01% + 0.5 Ω, 0.01% + 0.5 Ω	
Resolution		
0.00 Ω to 400.00 Ω	0.01 Ω	
400.0 Ω to 4000.0 Ω	0.1 Ω	
Millivolt Measurement & Source		10 11 55
Resolution		-10 mV to 75 mV
Range		0.01 mV
Accuracy (% of reading +counts)		0.01% + 10 mV

Specialty Model

Fluke 724 Temperature Calibrator





simultaneous view Source/measure TCs, RTDs, volts and ohms

display allows for

input and output

- Measure mA while supplying loop power
- 25% and 100% stepping, auto-step and auto ramp

Recommended Accessories





Fluke 712/724



TwistGuard™ Test Leads





SureGrip



80PK-3A Surface Probe



C101 Meter Hard Case



Included Accessories

FLUKE-712B

FLIIKE-724

Fluke 714B/712B: Magnetic Hanging Tool, Batteries, Manual, Traceable Calibration Certificate and Test Leads. Fluke 724: TL75 Test Leads, AC175 Test Clips, Stackable Test Leads (1 pair), Spare Fuse, User Manual and Traceable Certificate of Calibration. **Ordering Information** FLUKE-714B Thermocouple Temperature

oundrator

Calibrator

RTD Calibrator

Temperature



Fluke Calibration 1523 and 1524 Reference Thermometers



The Fluke Calibration 1523/1524 Reference Thermometers measure, graph and record PRTs, thermocouples and thermistors. You can measure up to 0.3 seconds per sample and plot and scale trends in real time. Both thermometers have memory for up to 25 readings with statistics. The 1524 has two inputs with data logging memory for 15000 measurements with date and time stamps.

- High accuracy PRTs: ±0.01° C; Thermocouples: ±0.24° C; Thermistors: ±0.002° C
- A simple user interface to see trends quickly
- Smart connectors to load probe information automatically
- Optional on a PC LogWare II software to monitor and log more data over time
- One-year warranty

Models	Included accessories
	Fluke 1523 Bundled with:
1523-P2	5628 PRT (-200° C to 660° C (-328° F to 1,220° F), 25 ohm, 6.35 mm × 305 mm (0.25 in × 12 in)), Universal TC INFO-CON Connector, TPAK and Case
1523-P3	5627A PRT (-200° C to 420° C (-328° F to 788° F), 100 ohm, 6.35 mm × 305 mm (0.25 in × 12 in)), Universal TC INFO-CON Connector, TPAK and Case
1523-P4	5615 PRT (-200° C to 420° C (-328° F to 788° F), 100 ohm, 6.35 mm × 305 mm (0.25 in × 12 in)), Universal TC INFO-CON Connector, TPAK and Case
	Fluke 1524 Bundled with:
1524-P2	5628 PRT, Universal TC INFO-CON Connector, TPAK and Case
1524-P3	5627A PRT, Universal TC INFO-CON Connector, TPAK and Case
1524-P4	5615 PRT, Universal TC INFO-CON Connector, TPAK and Case

Fluke Calibration 1551A Ex and 1552A Ex Stik Thermometer Readouts



Best substitute for precision mercury-filled glass thermometers

The Fluke 1551A Ex and 1552A Ex Stik Thermometers are an accurate and repeatable substitute for mercury-in-glass thermometers. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, these intrinsically-safe, battery operated, portable reference thermometers are designed to go where you work.

- User-configurable temperature Trend/Stability indicator
- Optional data logging to internal memory
- 300-hour battery life
- NVLAP-accredited, NIST-traceable calibration included
- Accuracy of ±0.05° C (±0.09°F) over full range
 Intrinsically safe (ATEX and IECEx compliant)
- Ex ib IIB T4 Gb
- Two models to choose from (-50° C to 160° C (-58° F to 320° F)) or -80° C to 300° C (-112° F to 572° F))
- One-year warranty

Models	
1551A-9*	1551A Ex Thermometer, Fixed RTD, -50° C to 160° C (-58° F to 320° F), 4.8 mm × 229 mm (0.18 in × 9.01 in)
1551A-12*	1551A Ex Thermometer, Fixed RTD, -50° C to 160° C (-58° F to 320° F), 6.35 mm × 305 mm (0.25 in × 12 in)
1551A-20*	1551A Ex Thermometer, Fixed RTD, -50° C to 160° C (-58° F to 320° F), 6.35 mm × 508 mm (0.25 in × 20 in)
1552A-12*	1552A Ex Thermometer, Fixed PRT, -80° C to 300° C (-112° F to 572° F), 6.35 mm × 305 mm (0.25 in × 12 in)

*Datalogging option models also available as -DL





The Fluke Calibration 7526A Precision Process Calibrator offers the best balance of economy and accuracy for benchtop calibration of temperature and pressure process instrumentation.

Easily calibrate RTD and thermocouple readouts, pressure gauges, temperature transmitters, digital process simulators, data loggers, multimeters and more.

- Sources and measures DC voltage, current, resistance, RTDs and thermocouples
- Precision pressure measurement using Fluke 750P Series Pressure Modules
- Measures 4-20 mA loop current
- Includes certificate of calibration traceable to national standards
- Thermocouple output/input: -10 mV to 75 mV \pm (30 ppm of reading +2 μ V)
- Transmitter output: 0 mA to 24 mA (input with loop power) ±(100 ppm +1 μA)
- Resistance output: 5 Ω to 400 Ω ±0.01 Ω

Fluke Calibration 9100S and 9102S Handheld Dry-Well Temperature Calibrators



Fluke 9102S



Fluke 9100S



The Fluke Calibration 9100S and 9102S are the world's smallest, lightest and most portable dry-wells. With an easy-to-use interface and temperature range to 375° C (707° F) the 9100S is ideal for checking RTDs, thermocouples, and small bimetal thermometers in the field. For work in the temperature range of -10° C to 122° C (14° F to 251° F) the 9102S is ideal for dial gauges, digital thermometers, bulb switches, and other sensors that need calibration below ambient.

9102S Handheld Dry-Well

- Smallest dry-wells in the world
- Interchangeable and customizable inserts available
- Ranges from -10° C to 122° C (14° F to 251° F)
- Accuracy to ±0.25° C (±0.45° F)
- Stability of ±0.05° C (±0.09° F) at 0° C (32° F)
- One-year warranty

9100S Handheld Dry-Well

- High performance, convenience and easy-to-use
- Ranges from 35° C to 375° C (95°F to 707°F)
- Accuracy: ±0.25° C at 50° C; ±0.25° C at 100° C; ±0.5° C at 375° C (±0.45° F at 122° F; ±0.45° F at 212° F;
- ±0.9° F at 707° F)
- NIST traceable calibration
- One-year warranty

Fluke Calibration 1586A Data Acquisition System



Fluke 1586A



1586A Super DAQ Precision Temperature Scanner

The 1586A Super DAQ automates calibration when connected to a Fluke Calibration temperature source. It is a powerful thermometer readout and the most accurate and flexible temperature data acquisition system on the market.

- Measure thermocouples, PRTs, thermistors, DC voltage, DC current, and resistance
- Best-in-class temperature measurement accuracy
- Fluke DAQ 6.0 software. to visualize and handle data
- PRTs: ±0.005° C (±0.009° F)
- Thermocouples: ±0.3° C (±0.54° F) (Type K,T,J w/ internal CJC)

Optional: ISO I7025 Accredited Calibration available for 1586A models

- Thermistors: ±0.002° C (±0.004° F)
- One-year warranty

(add "/C" to the model number).

Recommended Accessories Fluke 9100S/9102S



9300 Rugged Carrying Case (9100S)

1586-CASE Carrying Case (1586A Super DAQ)

Ordering Information

9100S-A- 256	HDRC Handheld Dry- Well, Block A, High-Temp
9100S-B- 256	HDRC Handheld Dry- Well, Block B, High-Temp
9100S-C- 256	HDRC Handheld Dry- Well, Block C, High-Temp
9100S-D- 256	HDRC Handheld Dry- Well, Block D, High-Temp
9102S-256	HDRC Handheld Dry- Well, Low-Temp
1586A	Super-DAQ Precision Temperature Scanner
1586A/1DS	Super-DAQ Precision Temperature Scanner, 1 DAQ-STAQ Multiplexer
1586A/2DS	Super-DAQ Precision Temperature Scanner, 2 DAQ-STAQ Multiplexers
1586A/DS -HC	Super-DAQ Precision Temperature Scanner, 1 High-Capacity Module, 1 DAQ-STAQ Multiplexer
1586A/1HC	Super-DAQ Precision Temperature Scanner, 1 High-Capacity Module
1586A/2HC	Super-DAQ Precision Temperature Scanner,

Contact your local distributor for price and availability.

2 High-Capacity Modules



Fluke Calibration 9142, 9143 and 9144 **Field Metrology Wells**



Fluke 9144

GE

Field temperature calibration with precision and speed

Whether you need to calibrate 4-20 mA transmitters or a simple thermostatic switch, a Fluke Calibration Field Metrology Well is the right tool for the job. With three models covering the range of -25° C to 660° C, this family of Metrology Wells calibrates a wide range of sensor types. The optional process version (models 914X-X-P) provides a built-in two-channel thermometer readout that measures PRTs, RTDs, thermocouples, and 4-20 mA transmitters which includes the 24 V loop supply to power the transmitter.

- Lightweight, portable, and fast
- 9142 -25° C to 150° C ±0.2° C (-13° F to 302° F ±0.4° F)

• 9143 33° C to 350° C ±0.2° C (91° F to 662° F ±0.4° F)

- 9144 50° C to 660° C ±0.35° C to 420° C, ±0.5° C to 660° C (122° F to 1,220° F ±0.63° F to 788° F, ±0.9° F to 1,220° F)
- Cool to -25° C (-13° F) in 15 minutes and heat to 660° C
- (1,220° F) in 15 minutes
- Built-in two-channel readout for PRT, RTD, thermocouple, 4-20 mA current
- True reference thermometry with accuracy to $\pm 0.01^{\circ}$ C
- Automate calibration with the Fluke 754 or Fluke 1586A or use on-board automation with process version
- One-year warranty

Models			number to be replaced with A, B, C, propriate for the desired insert.
9142 - X	Field Metrology Well, -25° C to 150° C (-13° F to 302°)	9142-INSA	Insert A, 9142, misc holes
9142-X-P	Field Metrology Well, -25° C to 150° C (-13° F to 302°), process version	9142-INSB 9142-INSC	Insert B, 9142, comp holes Insert C, 9142, 6×0.25 in holes
9143 - X	Field Metrology Well, 33° C to 350° C (91° F to 662° F	9143-INSA	Insert A, 9143, misc holes
9143 - X-P	Field Metrology Well, 33° C to 350° C (91° F to 662° F), process version	d Metrology Well, 33° C to 350° C 9143-INSC Insert C 914	Insert B, 9143, comp holes Insert C, 9143, 6×0.25 in holes
9144 - X	Field Metrology Well, 50° C to 660° C (122° F to 1,220° F)	9144-INSA	Insert A, 9144, misc holes
9144-X-P	Field Metrology Well, 50° C to 660° C (122° F to 1,220° F), process version	9144-INSB 9144-INSC	Insert B, 9144, comp holes Insert C, 9144, 6×0.25 in holes

Fluke Calibration 9103 and 9140 **Field Dry-Well Calibrators**



9103-X Field Dry-Well Calibrator, -25° C to 140° C (-13° F to 284° F) 9140-X Field Dry-Well Calibrator, 35° C to 350° C (95° F to 662° F)

Fluke 9140 <u>ا ای</u> ک

Models

Fluke Calibration 9103 and 9140 Field Dry-Well Calibrators beat every other comparable dry-well in the industry in performance, size, weight, convenience, ease of calibration, software, and price. The heating and cooling rate of each of these dry-wells is adjustable from the front panel, and thermal switches can be checked for actuation testing. Multiple-hole inserts are available for a variety of probe sizes.

- Lightweight and very portable
- Two models ranging from -25° C to 350° C (-13° F to 662° F)
- Accuracy to ±0.25° C
- Stability to ±0.02° C
- · RS-232 and Interface-it software included
- · Easy to recalibrate
- One-year warranty

Specify X, X = A, B, C, or D included insert

Insert A:	1.6 mm (1/16 in), 3.2 mm (1/8 in),
	4.8 mm (3/16 in), 6.35 mm (1/4 in),
	9.5 mm (3/8 in) and 12.7 mm (1/2 in) $$
Insert B:	2 at 4.8 mm (3/16 in),, 2 at 6.35 mm (1/4 in) and 2 at 9.5 mm (3/8 in)
Insert C:	Six at 6.35 mm (1/4 in)
Insert D:	2 at 3 mm (0.118 in), 2 at 4 mm (0.157 in) and 2 at 6 mm (0.236 in)





Carrying Case Rugged Carrying Case

Complete Solution Fluke 754 with 914X Series **Field Metrology Well**

By combining the automating and documenting capabilities of the Fluke 754 Documenting Process Calibrator (see page 116) with Fluke Calibration's intelligent and stable family of field drywells and micro-baths, you have the capability to test the process sensor and the entire loop.

This combination of equipment allows you to easily verify the characteristics of the temperature sensor and measurement electronics. Using this information, the entire loop can be adjusted to optimize system measurement performance.



Contact your local distributor for price and availability.

Process Calibration Tools — Temperature Calibration

Process Calibration Tools 121

Fluke Calibration 6109A/7109A Portable Calibration Baths



Fluke 6109A



Four times more calibration throughput with twice the accuracy of Micro-Baths and dry-block calibrators

The Fluke Calibration 6109A and 7109A Portable Calibration Baths let process industry professionals calibrate four times more sanitary sensors per batch in less time and with twice the accuracy of other baths in this class. Up to four tri-clamp sanitary sensors fit easily into these baths for calibration at $\pm 0.1^{\circ}$ C temperature display accuracy. Throughput is even higher for sanitary RTDs with small or no flanges.

- Calibrate up to four tri-clamp sanitary sensors at the same time
- Wide temperature ranges cover most process applications - 6109A: 35° C to 250° C (95° F to 482°)
 - 7109A: –25° C to 140° C (-13 ° F to 284° F)
- Excellent display accuracy of $\pm 0.1^\circ$ C ($\pm 0.18^\circ$ F)provides 4:1 test uncertainty ratio (TUR) for critical applications
- One-year warranty

	6109A	7109A
Range (at 25° C ambient temperature)	35° C to 250° C (95° F to 482°)	-25° C to 140° C (-15° C cover off) (-13° F to 284° F (5° F cover off))
Accuracy (MAX possible error)	0.1° C (0.18° F)	0.1° C (0.18° F)
Display resolution	0.01, 0.001°	0.1 , 0.001°
Stability	0.015° C (0.027° F)	0.01° C (0.018° F)
Typical uniformity	0.03° C up to 200° C (0.054° F up to 392° F) 0.04° C above 200° C (0.072° F up to 392° F)	0.02° C (0.036° F)

Fluke Calibration 1502A/1504 Tweener Thermometer Readouts



Fluke 1502A

(SP-

Best performance thermometers in their price range

The 1502A and 1504 Tweener Thermometer Readouts are low-cost high-accuracy digital thermometers featuring accuracy of up to $\pm 0.006^{\circ}$ C ($\pm 0.011^{\circ}$ F) (Fluke 1502A) and up to $\pm 0.002^{\circ}$ C ($\pm 0.004^{\circ}$ F) (Fluke 1504).

The 1502A is designed to be used with 25 Ω and 100 Ω RTDs and SPRTs.

The 1504 Thermometer Readout is designed to be used with thermistors or RTDs with a nominal resistance of 1000 Ω or greater. One-year warranty.

Fluke Calibration 1620A Precision Thermo-Hygrometer



Fluke 1620A

\bigotimes

The most accurate temperature and humidity graphical data loggers on the market

Now you can easily monitor and record conditions throughout your entire facility with the DewK's new Ethernet and wireless capabilities, and set your upgraded LogWare III software to notify you immediately of changing conditions.

The 1620A accepts inputs from up to two sensors, which may be mounted directly on the unit or remotely. Each sensor comes with a NVLAP-accredited certificate of calibration for both temperature and humidity, complete with data and NIST traceability. The 1620A-S reads temperature to $\pm 0.25^{\circ}$ C ($\pm 0.45^{\circ}$ F) over its calibrated range of 15° C to 35° C (59° F to 95° F). Relative humidity readings are to $\pm 2\%$ RH from 20% RH to 70% RH. One-year warranty.





Spare Connector

9301 Carrying Case, fits Tweener and 12 in probe



2508 Serial Cable Kit **2361** Spare Power Supply 100 to 240 V AC (1620A)

Ordering Information

6109A	Portable Calibration Bath, 35° C to 250° C
6109A-P	Portable Calibration Bath with Process Electronics, 35° C to 250° C
7109A	Portable Calibration Bath, -25° C to 140° C
7109A-P	Portable Calibration Bath with Process Electronics, -25° C to 140° C
1502A	Tweener PRT Readout
1502A- 2506	Tweener PRT Readout, with IEEE-488
1504	Tweener Thermistor Readout
1504-2506	Tweener Thermistor Readout, with IEEE-488
1620А-Н	The "DewK" Thermo-Hygrometer, High-Accuracy Value Kit
1621А-Н	The "DewK" Thermo-Hygrometer, High-Accuracy Value Kit
1620A-S	The "DewK" Thermo-Hygrometer, Standard-Accuracy Value Kit
1621A-S	The "DewK" Thermo-Hygrometer, Standard-Accuracy Value Kit
9936A	LogWare III Software



Fluke Calibration 9132/9133 Portable Infrared Calibrator



Fluke 9132



Fluke 9133



Precision when you need it for infrared temperature calibration

Whether you're using in-line or handheld infrared pyrometers, you need good calibration standards to verify their accuracy. Our portable IR calibrators provide stable blackbody targets for calibrating non-contact IR thermometers from -30° C to 500° C (-22° F to 932° F).

These units feature a temperature-controlled measurement surface with a diameter of 57 mm (2.25 in). The target temperature can be controlled in set-point increments of 0.1° from -30° C to 500° C (-22° F to 932° F) and a well is located directly behind the blackbody surface for contact calibration.

- Certify IR pyrometers from -30° C to 500° C (-22° F to 932° F)
- Large 57 mm (2.25 in) blackbody target
- RTD reference well for contact temperature measurement
- Small, compact design
- One-year warranty

General Specifications	9132	9133
deneral specifications		
Temperature Range	50° C to 500° C (122° F to 932° F)	–30° C to 150° C at 23° C ambient (–22° F to 302° F at 73° F ambient)
Accuracy	±0.5° C at 100° C (±0.9° F at 212° F) ±0.8° C at 500° C (±1.4° F at 932° F)	±0.4° C (±0.72° F)
Target Size	57 mm (2.25 in)	57 mm (2.25 in)
Target Emissivity	0.95 (±0.02 from 8 to 14 μm)	0.95 (±0.02 from 8 to 14 µm)
Heating Time	30 minutes (50° C to 500° C (122° F to 932° F))	15 minutes (25° C to 150° C (77° F to 302° F))
Cooling Time	30 minutes (500° C to 100° C (932° F to 212° F))	15 minutes (25° C to -20° C (77° F to -4° F))





Fluke Calibration 4180/4181 Precision Infrared Calibrators



Fluke 4180

Accredited performance for point and shoot calibrations

Now it's easy to increase your IR temperature measurement accuracy with the Fluke Calibration 4180 and 4181 Precision Infrared Calibrators. These infrared temperature calibrators give more consistent, accurate and reliable calibrations because emissivity is radiometrically calibrated, and the target size minimizes size of source effect errors. In addition, these infrared calibrators simplify calibration because they uniquely compensate for errors caused by thermometer emissivity settings.

- Calibrated radiometrically for meaningful, consistent results
- Accurate, reliable performance from -15° C to 500° C (5° F to 932° F)
- Large target size of 152 mm (5.98 in) is required for calibrating most thermometers
- Accredited radiometric calibration report
- One-year warranty

Ordering Information 9312-256 Portable IR Calibrator

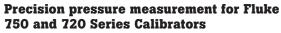
	50° C to 500° C
9133-256	Portable IR Calibrator -30° C to 150° C
4180	Precision Infrared Calibrator, –15° C to 120° C
4181	Precision Infrared Calibrator, 35° C to

Contact your local distributor for price and availability.

500° C

Fluke 750P and 750PEx Series Pressure Modules





The Fluke 750P Series Pressure Modules are the ideal pressure modules to enable gage, differential and absolute pressure measurement with Fluke 750 and 740 Series DPCs and 725, 726 MPCs to measure pressure. Covers pressure calibrations from 0 to 1 inH_20 to 10000 psi (2.5 mbar to 690 bar).

- 0.02% reference uncertainty
- 6-month and 1-year specifications
- Intrinsically safe models are Class I Div 1 Groups A-D T4, Ta = -10° C to $+50^{\circ}$ C (14° F to 122° F), ATEX II 1G Ex ia IIC T4 Ga compliant
- Ships with Traceable Certificate of Calibration
- Three-year warranty

Model	Parameter/Range	Burst Rating ⁶	Hi Side Media²	Lo Side Media ²	Reference Uncertainty ⁴
Differential		manng	meunu	moun	oncertainty
750P00	0 to 1 in H ₂ 0 (0 to 2.5 mbar)	30X	Dry Air	Dry Air	±0.15%
750P01 ⁴	0 to 10 in H ₂ 0 (0 to 25 mbar)	3X	Dry Air	Dry Air	±0.1%
750P02	0 to 1 psi (0 to 70 mbar)	3X	Dry Air	Dry Air	±0.05%
750P22	0 to 1 psi (0 to 70 mbar)	3X	316 SS	Dry Air	±0.05%
750P03	0 to 5 psi (0 to 350 mbar)	3X	Dry Air	Dry Air	±0.02%
750P23	0 to 5 psi (0 to 350 mbar)	4X	316 SS	Dry Air	±0.02%
750P04	0 to 15 psi (0 to 1 bar)	3X	Dry Air	Dry Air	±0.01%
750P24 ⁴	0 to 15 psi (0 to 1 bar)	4X	316 SS	Dry Air	±0.01%
Gage					
750P054	0 to 30 psi (0 to 2 bar)	4X	316 SS	N/A	±0.01%
750P064	0 to 100 psi (0 to 7 bar)	4X	316 SS	N/A	±0.01%
750P27 ⁴	0 to 300 psi (0 to 20 bar)	4X	316 SS	N/A	±0.01%
750P07	0 to 500 psi (0 to 35 bar)	4X	316 SS	N/A	±0.01%
750P08	0 to 1000 psi (0 to 70 bar)	3X	316 SS	N/A	±0.01%
750P094	0 to 1500 psi (0 to 100 bar)	3X	316 SS	N/A	±0.01%
750P2000	0 to 2000 psi (0 to 140 bar)	3X	316 SS	N/A	±0.01%
High	· · · · · · · · · · · · · · · · · · ·	-			
750P294	0 to 3000 psi (0 to 200 bar)	3X	316 SS	N/A	±0.01%
750P30	0 to 5000 psi (0 to 340 bar)	3X	316 SS	N/A	±0.01%
750P31	0 to 10000 psi (0 to 700 bar)	2X	316 SS	N/A	±0.01%
Absolute		1	1		
750PA3	0 to 5 psia (0 to 350 mbar)	4X	316 SS	N/A	±0.03%
750PA4 ⁴	O to 15 psia (O to 1 bar)	4X	316 SS	N/A	±0.03%
750PA5	0 to 30 psia (0 to 2 bar)	4X	316 SS	N/A	±0.03%
750PA6	0 to 100 psia (0 to 7 bar)	4X	316 SS	N/A	±0.03%
750PA27	0 to 300 psia (0 to 20 bar)	4X	316 SS	N/A	±0.03%
750PA7	0 to 500 psia (0 to 35 bar)	4X	316 SS	N/A	±0.03%
750PA8	0 to 1000 psia (0 to 70 bar)	3X	316 SS	N/A	±0.03%
750PA9	0 to 1500 psia (0 to 100 bar)	3X	316 SS	N/A	±0.03%
Vacuum		1	1		
750PV3	-5 psi (-350 mbar)	4X	316 SS	Dry Air	±0.03%
750PV4	-15 psi (-1 bar)	4X	316 SS	Dry Air	±0.03%
Dual					
750PD2	-1 to 1 psi (-70 to 70 mbar)	4X	316 SS	Dry Air	±0.05%
750PD3	-5 to 5 psi (-350 to 350 mbar)	4X	316 SS	Dry Air	±0.03%
750PD10	-10 to 10 psi (-700 to 700 mbar)	4X	316 SS	Dry Air	±0.02%
750PD4	-15 to 15 psi (-1 to 1 bar)	4X	316 SS	Dry Air	±0.01%
750PD5	-15 to 30 psi (-1 to 2 bar)	4X	316 SS	N/A	±0.01%
750PD50	-15 to 50 psi (-1 to 3.5 bar)	4X	316 SS	N/A	±0.01%
750PD6	-15 to 100 psi (-1 to 7 bar)	4X	316 SS	N/A	±0.01%
750PD7	-15 to 200 psi (-1 to 14 bar)	4X	316 SS	N/A	±0.01%
750PD27	-15 to 300 psi (-1 to 20 bar)	4X	316 SS	N/A	±0.01%



For a complete list of Fluke Pressure Modules, go to **fluke.com**

1. Total uncertainty, % of full span for temperature range 0° C to +50° C, one year interval. Total uncertainty, 1.0% of full span for temperature range -10° C to 0° C, one year interval. No 6 month specification available for range -10° C to 0° C.

2. "NON-CORROSIVE GASES" indicates dry air or non-corrosive gas as compatible media. "Stainless Steel 316-SS"

indicates media compatible with Type 316 Stainless Steel. 3. Specifications % of Full Span unless otherwise noted.

4. Intrinsically Safe pressure module available in this pressure range



Fluke 717, 718 and 719 Pressure Calibrators

Accurate and rugged, temperature calibration tools

Fluke 717 Pressure Calibrators

- Measure up to 10000 psi/690 bar sensor (10000G model)
- · Compatible with non-corrosive gases and liquids
- 10 pressure ranges available

Fluke 718 Pressure Calibrators

- 1, 30, 100 and 300 psi ranges available
- Pump to 300 psi, 20 bar with internal pump • 718-1G includes special low volume pump

and high measurement resolution for low pressure calibration **Fluke 719 Electric Pressure**

Calibrators

- Electric pump enables one-handed pressure pumping and makes pressure calibration quicker and easier
- Best in class 0.02% pressure measurement • accuracy

Programmable pump limit settings can eliminate over-pressurization-set 'pump to' pressure values

Two ranges, 30 psi and 100 psi

Fluke 717, 718 and 719 common features

- Pressure switch test makes a difficult task easy, captures set, reset and deadband values of a pressure switch
- 717 and 718 measure pressure to 0.02% of full scale with internal sensor
- Measure mA with 0.01% accuracy and 0.001 mA resolution, while providing 24 V loop power
- Three-vear warrantv

Fluke 719

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Models Range Resolution Comment 717-1G +/- 1 psi, 27.5 inH₂0, (-7 - +7 kPa) +0.001 psi. 0.001 kPa. Fluke 718 dry air only and 718-1G 0.001 inH₂0 includes on-board pump 717-15G -12 to 15 psi, -83 to 0.001 ps1, 0.01 kPa, 0.01 inH₂0 103 kPa 717-30G Fluke 718 and Fluke 719 dry -12 to + 30 psi, 0.001 psi, 0.001 kPa, air only and includes on-board 718-30G* and (-83 to 207 kPa) 0.001 inH₂0 pump 719-30G 717-100G Fluke 718 and Fluke 719 dry 0.01 psi, 0.01 kPa, 0.01 inH₂0 -12 to + 100 psi, air only and includes on-board 718-100G* (-83 to 690 kPa) pump 717-300G -12 to +300 psi. 0.01 psi. 0.01 kPa. Fluke 718 dry air only and 718-300G* and (-83 to +2070 kPa) 0.01 inH₂0 includes on-board pump 719-100G Compatible with non-corrosive 717-500G 0-500 psi, 0-3450 kPa 0.01 psi, 0.1 kPa gases and fluids 717-1000G Compatible with non-corrosive 0-1000 psi, 0-6900 kPa 0.01 psi, 0.1 kPa gases and fluids 717-1500G Compatible with non-corrosive 0-1500 psi, 0-10342 kPa 0.1 psi, 1 kPa gases and fluids 717-3000G Compatible with non-corrosive 0-3000 psi, 0-20700 kPa 0.1 psi, 1 kPa gases and fluids 717-5000G Compatible with non-corrosive 0-5000 psi, 0-34500 kPa 0.1 psi. 1 kPa gases and fluids 717-10000G 0-10000 psi, Compatible with non-corrosive 1 psi. 1 kPa 0-69000 kPa gases and fluids 0.03% of range, 1 year. 0.02% for 6 months, 717 and 718-1G: 0.05% 6 months, 1 year, 718 and 717-300G 0.03% 6 months, 0.05% 1 year Pressure accuracy 0.001 mA resolution Accuracy: $\pm 0.01\% + 1$ count mA measurement 0-24 mA range 24 V DC Accuracy: ±10% Loop power

*Intrinsically safe models available, see page 141.

Specialty Model Fluke 718Ex **Intrinsically Safe Pressure Calibrator** - 88

The Fluke 718Ex offers a convenient, self contained solution for pressure measurements and calibration.

- 😥 II 1G Ex ia IIC T4
- 30, 100, and 300 psi ranges (2, 7, and 20 bar)
- Pressure measurement to 0.05% of full span, using an internal pressure sensor.
- Pressure measurement to 200 bar using any of eight intrinsically safe Fluke 750PEx Pressure Modules

Recommended Accessories







Low Pressure Test Pump



700HTP-2 Hydraulic Test Pump

C116 Large Soft Case

Included Accessories

Fluke 717/718/719: Protective Yellow Holster with Test Lead Storage, Instruction Sheet, 9 V Alkaline Battery (1x 717, 2x 718 & 719), Test Leads and Alligator Clips, Hose Kit (719), Traceable Calibration Report and Data.

Fluke 718Ex: Protective Red Holster, TL75 Test Leads, AC72 Test Clips, User Manual (CD), Fluke 718Ex CCD, Traceable Calibration Report and Data.

Ordering Information

FLUKE-717 10000G, 1G	Pressure Calibrator, 10000 PSI - 1 PSI (10 models)
FLUKE-718 300G, 100G, 30G	Pressure Calibrator
	Intrinsically Safe Pressure Calibrator
FLUKE-719 100G, 30G	Electric Pressure Calibrator 100PSI, 30 PSI



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180

Fluke 717

Fluke 718



Fluke 721 and 721Ex Precision Pressure Calibrators



Pressure calibration and temperature measurement for custody transfer applications

The Fluke 721 and 721Ex Precision Pressure Calibrators with dual isolated pressure sensors are the ideal tool for gas custody transfer applications allowing you to take simultaneous static and differential pressure measurements with a single tool.

The 721 and 721Ex can be configured by selecting either a 16 PSI (1.1 bar) or 36 psi (2.48 bar) low pressure sensor then adding any of 7 high pressure ranges including 100, 300, 500, 1000, 1500, 3000 or 5000 psi (6.9, 20, 24.5, 69, 103.4, 200, 345 bar).

- Intrinsically Safe (721Ex version only) IECEx and
 II 2G ia IIB T3 Gb (Zone 1)
- Ideal for gas flow calibration (custody transfer) applications
- Two isolated, stainless steel, pressure sensors with 0.02% accuracy
- Switch test on both pressure inputs
- Pt100 RTD input for temperature measurement, (probe optional)
- Measures 4-20 mA signals
- Internal 24 V loop power supply can power a transmitter under test (721 models only)
- Three-year warranty

	Low Pressure Sensor		High Pressure Sensor						
Model	Range 1	Resolution	Accuracy	Range 2	Resolution	Accuracy			
Fluke-721-1601 Fluke-721Ex-1601 16PSIG, 100PSIG							-12 to +100 psi -0.83 to 6.9 bar	0.01 psi 0.001 bar	
Fluke-721-1603 Fluke-721Ex-1603 16PSIG, 300PSIG			-12 to +300 psi -0.83 to 20 bar	0.01 psi 0.001 bar					
Fluke-721-1605 16PSIG, 500PSIG	-14 to		-12 to +500 psi -0.83 to 34.5 bar	0.01 psi 0.001 bar	0.02% of				
Fluke-721-1610 16PSIG, 1000PSIG	+16 psi -0.97 to			0 psi to +1000 psi 0.00 to 69 bar	0.1 psi 0.001 bar	full scale			
Fluke-721-1615 Fluke-721Ex-1615 16PSIG, 1500PSIG	1.1 bar	1.1 bar 0.001 psi, 0.02% of full scale		0 to +1500 psi 0.00 to 103.4 bar	0.1 psi 0.001 bar				
Fluke-721-1630 Fluke-721Ex-1630 16PSIG, 3000PSIG				0 to +3000 psi 0.00 to 200 bar	0.1 psi 0.01 bar				
Fluke-721-1650 16PSIG, 5000PSIG				0 to +5000 psi 0.00 to 345 bar	0.1 psi 0.01 bar	0.03% of full scale			
Fluke-721-3601 36PSIG, 100PSIG			-12 to +100 psi -0.83 to 6.9 bar	0.01 psi 0.001 bar					
Fluke-721-3603 36PSIG, 300PSIG				-12 to +300 psi -0.83 to 20 bar	0.01 psi 0.001 bar				
Fluke-721-3605 36PSIG, 500PSIG				-12 to +500 psi -0.83 to 34.5 bar	0.01 psi 0.001 bar				
Fluke-721-3610 36PSIG, 1000PSIG	-14 to +36 psi			0 to +1000 psi 0.00 to 69 bar	0.1 psi 0.001 bar	0.02% of full scale			
Fluke-721-3615 Fluke-721Ex-3615 36PSIG, 1500PSIG	-0.97 to 2.48 bar			0 to +1500 psi 0.00 to 103.4 bar	0.1 psi 0.01 bar				
Fluke-721-3630 Fluke-721Ex-3630 36PSIG, 3000PSIG			0 to +3000 psi 0.00 to 200 bar	0.1 psi 0.01 bar					
Fluke-721-3650 Fluke-721Ex-3650 36PSIG, 5000PSIG				0 to +5000 psi 0.00 to 345 bar	0.1 psi 0.01 bar	0.03% of full scale			

Specialty Model Fluke 721Ex Precision Pressure Calibrator The ideal tool for gas custody transfer

applications in

atmospheres.

potentially explosive



Recommended Accessories



720RTD RTD Probe for 721 & 719Pro **720URTDA** Universal RTD Adapter for 721 and 719Pro

Included Accessories

Fluke 721/Ex: Soft Case, Four AA Batteries, Manual, Traceable Calibration Certificate, Test Leads.

Ordering Information

FLUKE-721-3650	Dual Sensor Pressure Calibrator
FLUKE-721-3630	Dual Sensor Pressure Calibrator
FLUKE-721-3615	Dual Sensor Pressure Calibrator
FLUKE-721-3610	Dual Sensor Pressure Calibrator
FLUKE-721-3605	Dual Sensor Pressure Calibrator
FLUKE-721-3603	Dual Sensor Pressure Calibrator
FLUKE-721-3601	Dual Sensor Pressure Calibrator
FLUKE-721-1650	Dual Sensor Pressure Calibrator
FLUKE-721-1630	Dual Sensor Pressure Calibrator
FLUKE-721-1615	Dual Sensor Pressure Calibrator
FLUKE-721-1610	Dual Sensor Pressure Calibrator
FLUKE-721-1605	Dual Sensor Pressure Calibrator
FLUKE-721-1603	Dual Sensor Pressure Calibrator
FLUKE-721-1601	Dual Sensor Pressure Calibrator
Intrinsically Safe 1 select ranges (add model numbers).	nodels available in Ex to the above
FLUKE-720RTD	RTD Probe for Fluke 721 and 719Pro
FLUKE- 720RTDUA	Universal RTD Adapter for Fluke 721 and 719Pro

Pressure Calibration

Fluke 719Pro Pressure Calibrators



Fluke 719Pro



Integrated electric pump - now to 300 psi/20 bar

The Fluke 719Pro is an exciting enhancement of the popular original 719 pressure calibrators. Notable improvements include expanding the pressure measurement range of the 100 psi model up to 150 psi and the addition of a 300 psi range. The 719Pro adds a backlit display and precision temperature measurement with the addition of an accessory RTD probe available as a new accessory.

- Electric pump for one-handed pressure calibration
- Best in class pressure measurement uncertainty of 0.02%
- Variable release rate bleed valve for easy pressure adjustment
- 30 psi, 150 psi and the long requested 300 psi (2,10 and 20 bar) pressure ranges
- Programmable pressure calibrator pump limit eliminates over-pressurization and allows the user to program target pressures for pumping
- Extended pressure measurement range with any of 50 750PXX Pressure Modules
- Source mA with simultaneous pressure measurement to test valves and $\ensuremath{\mathrm{I/Ps}}$
- Simulate mA signals to troubleshoot 4–20 mA loops
- Test pressure switches with built in switch test function
- Power transmitters during test using 24 V loop supply with simultaneous mA measurement
- Three-year warranty

Pressure measurement	Range		Re	solution	Accuracy
Fluke-719Pro-30G	-12 to 30 psi /-0.8 to 2 bar		0.0	001 psi, 0.001 bar	±0.02% of
Fluke-719Pro-150G	-12 to 150 psi /-0	.8 to 10 bar	0.0	01 psi, 0.001 bar	full scale, 6 months
Fluke-719Pro-300G	-12 to 300 psi / -0).8 to 20 bar	0.0	01 psi, 0.001 bar	IIIOIIIIIS
Function	Range	Resolution		Accuracy (1 year)	
mA DC (simulation & measurement)	0-24 mA DC	0.001 mA		±(0.01% of reading	+ 2 counts)
Volts DC (measurement only)	30 V DC	0.001 V		\pm (0.01% of reading	+ 2 counts)
Temperature (measurement only, Pt100 RTD)	-50 to 150° C (-58° F to 302° F)	0.01° C (0.02° F)		Temperature ±0.1° (C (0.18° F)
Loop power supply	24 V DC	N/A		24 mA at 24 V	
Temperature effect (all functions)				Add ±0.002% F.S./° outside of 15° C to 3 (Add ±0.004% F.S./' outside of 59° F to 9	5° C ° F for temps
Environmental					
Operating temperature		-10° C to 50°	С	(14° F to 122° F)	
Storage temperature (without batteries)		-20° C to 60°	С (–4° F to 140° F)	

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Battery	8 standard alkaline AA batteries
Battery life	300 pump cycles to 150 psi minimum; 1000 pump cycles to 30 psi; 100 pump cycles to 300 psi minimum
Physical	
Size (HxWxD)	24.1 x 11.2 x 7.0 cm (9.5 x 4.4 x 2.8 in)

With holster 1.2 kg (2.5 lb)

Connections

Weight

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Pressure	1/8 inch female NPT
Electrical	Standard banana jacks
RTD	4 pin miniature circular
External module	6 pin miniature circular

Pressure Modules Fluke 750 Series Pressure Modules

50 Pressure Modules
0.02%

reference

uncertainty



- Ranges from 1.00 in H₂O (0.24 kPa) to 10000 psi (68.94 MPa)
- Gage, differential, dual range, absolute and vacuum measurement models
- Rugged cases protect the modules from harsh environments
- Temperature compensated 0° C to 50° C



Fluke Process Calibrators in this catalog displaying the Pressure Enabled symbol display readings from the 750 Series Pressure Modules.

Recommended Accessories





720RTD RTD Probe for 721 and 719PRO

720URTDA Universal RTD adapter for 721 and 719PRO



71XTRAP Liquid and Dirt Trap for 718, 719 & 719PRO

Included Accessories

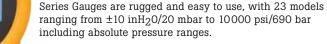
Test Leads with Alligator Clips, Printed User Manual/CD-ROM, Fluid Trap, Carrying Case, 1/4 inch NPT to 1/4 inch ISO Adapter, Accessory Hose Kit with (2) 1/8 inch Quick Fit Adapters and 1 meter of hose, Traceable Certificate of Calibration.

Ordering Information

v	
FLUKE-	Electric Pressure
719PRO-30G	Calibrator, 30PSIG
FLUKE-	Electric Pressure
719PRO-	Calibrator,
150G	150PSIG
FLUKE-	Electric Pressure
719PRO-	Calibrator,
300G	300PSIG
FLUKE-71X- TRAP	Liquid & Dirt Trap for Fluke 718, 719 and 719Pro

Fluke 700G Precision Pressure Test Gauges





Pressure Calibration needs

When combined with the Fluke 700PTPK or 700HTPK you've got a complete pressure testing solution for up to 600 psi (40 bar) with the PTP-1 pneumatic pump and up to 10000 psi (690 bar) with the HTP-2 hydraulic pump.

Pressure Gauges designed to handle all your

With best-in-class accuracy and measurements, the Fluke 700G Series Precision Pressure Test Gauges were designed to handle all of your pressure calibration needs. The 700G

- Precision pressure measurement from $\pm 10 \text{ in} H_2\text{O}/20$ mbar to 10000 psi/690 bar
- Absolute pressure measurement ranges 15, 30, 100, 300 psi
- Accuracy to 0.05% of full scale
- Reference class gauge accuracies to 0.04% of reading
- Easy to use, rugged construction for reliable performance
- CSA; Class 1, Div 2, Groups A-D rating
- 🕢 II 3G Ex ic IIB T6 Gc
- Combine the Pneumatic Test Pump Kits and Hydraulic Test Pump Kits with any Fluke-700G Series Gauge, 1000 psi (69 bar) or less, to make a complete pressure testing
- Log up to 8493 pressure measurements to memory (requires 700G/TRACK software)
- Three-year warranty

Specifications

Fluke 700G with

700PTP-1

GP

Size (HxWxD)	$12.7 \times 11.4 \times 3.7$ cm (5 × 4.5 × 1.5 in)
Pressure connection	1/4 in NPT Male
Housing/Weight	Cast ZNAL 0.56 kg (1.22 lb) with holster
Display	5.5 digits, 16.53 mm (0.65 in) high 20-segment bar graph, 0 to 100%
Power	Three AA alkaline batteries
Battery life	1,500 hours without backlight (continuous on), 2000 hours at slow sample rate

700G/TRACK Logging Software

The Fluke 700G/Track Data Logging Software (700G only) makes managing your instruments and calibration data easy to do. With the Fluke 700G-Track Software, you can gauge and record (log) multiple data sets, each of which is identified by a sequential run number.

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- Use with Fluke 700G Series Gauges to perform real time data logging to a PC
- Download logging configurations to the 700G Series Gauges for a remote logging event
- Configure logging event reading rate, duration and measurement units
- Upload measurements logged remotely and display or export measurements
- Includes communication cable for connection to a PC



Fluke-700PTPK Pneumatic Test Kit

- Combine with any Fluke-700G Series Gauge, 1000 psi (69 bar) or less, to make a complete pressure testing kit
- Connect the 700G Series gauge directly to the included PTP-1 hand pump



Fluke 700HTPK Hydraulic Test Kit

- Combine with any Fluke-700G Series Gauge, 1000 psi (69 bar) range or greater, to make a complete pressure testing kit
- Generate pressure up to 10000 psi, 690 bar with the included 700HTP-2 test pump
- Hard case protects pump and gauge and allows gauge to remain connected to the pump



Fluke-700PTPK2 Premium Pneumatic Test Pump Kit

- Pneumatic Hand Pump
- Premium, no tools required gauge connector
- One premium transmitter test hose kit and adapters



Fluke-700HTPK2 Premium Hydraulic Test Pump Kit

- Hydraulic Hand Pump
- Premium, no tools required gauge connector
- One premium transmitter test hose kit and adapters

Process
Process Calibration Tools
Tools —
Pressure
ressure Calibration

Fluke 700G Precision Pressure Test Gauges				
Model	Range	Resolution	Accuracy	Burst Pressure
Fluke-700G01	-10 to +10 inH ₂ 0 -20 mbar to 20 mbar	0.001 inH20 0.001 mbar	Positive Pressure ±0.1% of range,	3 psi 210 mbar
Fluke-700G02	-1 to +1 psi -70 mbar to 70 mbar	0.001 psi 0.001 mbar	Vacuum ±0.1% of range	5 psi 350 mbar
Fluke-700G04	-14 psi to 15 psi -0.97 bar to 1 bar	0.001 psi 0.001 bar		60 psi 4 bar
Fluke-700G05	-14 psi to 30 psi -0.97 bar to 2 bar	0.001 psi 0.001 bar		120 psi 8 bar
Fluke-700G06	-12 psi to 100 psi -0.83 bar to 6.9 bar	0.01 psi 0.001 bar		400 psi 26 bar
Fluke-700G27	-12 psi to 300 psi -0.83 bar to 20 bar	0.01 psi 0.001 bar		1200 psi 80 bar
Fluke-700G07	-12 psi to 500 psi -0.83 bar to 34 bar	0.01 psi 0.001 bar	Positive Pressure ±0.05% of range,	2000 psi 138 bar
Fluke-700G08	-14 psi to 1000 psi -0.97 bar to 69 bar	0.1 psi 0.001 bar	Vacuum ±0.1% of range	4000 psi 266 bar
Fluke-700G10	-14 to 2000 psi -0.97 bar to 140 bar	0.1 psi 0.01 bar		8000 psi 550 bar
Fluke-700G29	-14 psi to 3000 psi -0.97 bar to 200 bar	0.1 psi 0.01 bar		10000 psi 690 bar
Fluke-700G30	-14 psi to 5000 psi -0.97 bar to 340 bar	0.1 psi 0.01 bar		10000 psi 690 bar
Fluke-700G31	-14 psi to 10000 psi -0.97 bar to 690 bar	1 psi 0.01 bar		20000 psi 1035 bar
Fluke-700GA4	0 to 15 psia 0 to 1 bar absolute	0.001 psi 0.001 bar		60 psi 4 bar
Fluke-700GA5	0 to 30 psia 0 to 2 bar absolute	0.001 psi 0.001 bar	0.05% of range	120 psi 8 bar
Fluke-700GA6	0 to 100 psia 0 to 6.9 bar absolute	0.01 psi 0.001 bar	0.05% 01 lange	400 psi 27 bar
Fluke-700GA27	0 to 300 psia 0 to 20 bar absolute	0.01 psi 0.001 bar		1200 psi 80 bar
Fluke-700RG05	-14 to +30 psi -0.97 to +2 bar	0.001 psi 0.001 bar	Positive Pressure ±0.04% of reading ±0.01% of range, Vacuum ±0.1% of range	90 psi 6 bar
Fluke-700RG06	-12 to 100 psi -0.83 to 6.9 bar	0.01 psi 0.001 bar		400 psi 27 bar
Fluke-700RG07	-12 to 500 psi -0.83 to 34	0.01 psi 0.001 bar		2000 psi 138 bar
Fluke-700RG08	-14 to 1000 psi -0.97 to 69 bar	0.1 psi 0.001 bar	Positive Pressure ±0.04% of	4000 psi 275 bar
Fluke-700RG29	-14 to 3000 psi -0.97 to 200 bar	0.1 psi 0.01 bar	reading ±0.01% of range, Vacuum ±0.1% of range	10000 psi 690 bar
Fluke-700RG30	-14 to 5000 psi -0.97 to 340 bar	0.1 psi 0.01 bar		15000 psi 1035 bar
Fluke-700RG31	-14 to 10000 psi -0.97 to 690 bar	1 psi 0.01 bar		20000 psi 1380 bar

200R Ranges: Temperature Compensation 0°C to 50°C (32 °F to 122 °F) to rated accuracy For temperatures from -10° C to 0° C and 50° C to 55° C, add 0.005% FS/°C

Media compatibility:

• 10 inH₂0, 1, 15, 30 psi: any clean dry non-corrosive gas

• 100, 300, 500, 1000 psi: any liquids or gases compatible with 316 stainless steel

 Above 1000 psi: any non-flammable, non-toxic, non-explosive, non-oxidizing liquid or gas compatible with 316 stainless steel

Recommended Kits Bundle & Save



Fluke 700MTH Premium Transmitter Test Hose Kit

- Easy to use premium pressure transmitter test hose kit for connection to 1/4" female metric/BSP
- 5000 psi rating
- Includes 1/8" NPT connection for permanent mount to a calibrator or test pump



Fluke 700TTH5K Premium Transmitter Test Hose Kit

- Easy to use premium pressure transmitter test hose kit for use with female 1/4: NPT connections
- 5000 psi rating
- Includes 1/8" NPT connection for permanent mount to a calibrator or test pump

Included Accessories

700G: Manual on CD-ROM, Traceable Certificate of Calibration, 1/4" NPT to 1/4" ISO Adapter.

Ordering Information

Please refer to the table on the left for Fluke 700G Models

700G- TRACK	Datalogging Software and Cable for 700G
FLUKE- 700HTPK	Hydraulic Test Pump Kit, 0 to 10000 psi/690 bar
FLUKE- 700PTPK	Pneumatic Test Pump Kit, O to 600 psi/40 bar
FLUKE-	Premium Hydraulic
700HTPK2	Test Pump Kit
FLUKE-	Premium Pneumatic
700PTPK2	Test Pump Kit
FLUKE-	Premium Hose Kit,
700TTH5K	5000 psi
FLUKE-	Premium Hose Kit
700TTH10K	10000psi

Fluke 730G Smart Digital Pressure Calibrator

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Fluke 730G



Fluke 730G with 700PTP-

The Fluke 730G Smart Digital Pressure Calibrator with internal HART[®] communication is designed in a pressure gauge form. In conjunction with a pressure test pump, the 730G enables high-efficiency and high-accuracy measurement and calibration of pressure gauges, pressure switches, pressure transmitters, which makes it ideal for mobile metrology labs, metrology institutes and enterprises to establish pressure laboratories.

- Pressure measurement from ±10 in H2O/2.5 kPa to 10000 psi/69 MPa
- · Four absolute pressure measurement range: 15 PSIA (103 kPa), 30 PSIA (207 kPa), 100 PSIA (690 kPa), 300 PSIA (2 MPa)
- Pressure measurement accuracy 0.05% of full scale, 0.02% optional and 0.01% current and voltage accuracy
- Current measurement range: 0-24 mA; voltage measurement range: 0-30 VDC
- Powerful HART communication, supports HART 7
- 24 V loop powered, no external power supply needed
- Storage up to 128 sets of calibration data
- Ingress protection: IP54
- 1-metre drop test
- Three Year Warranty

Specifications	
Current	0 to 24 mA
Voltage	0 to 30 V DC
Current range	1 μΑ
Voltage range	1 mV
Accuracy	0.01% ±2 LSD all ranges @ 23°C ±5°C
Temperature compensation	From 20% FS/°C @ -10°C to +18°C and 28°C to 50°C
Loop Compliance Voltage	24 V DC @ 20 mA
Temperature measurement accuracy inside the product	±0.5°C
Drive Capability	1200 Ω (without HART resistor), 950 Ω (with internal HART resistor)
Size (HxWxD)	155 mm × 130 mm × 44 mm
Weight	850 g

Fluke 730G/PCSW Software

The Fluke 730G/PCSW verification management software completes the calibration workflow by allowing for paperless management of pressure calibrations. Record calibration data, automate calibration tests and generate calibration reports with ease.



- Paperless testing and reporting: Enable paperless testing giving you the ability to automatically generate test reports and document results.
- Manage tested equipment and pressure standards with ease.
- Supported pressure devices: analog pressure gauges, digital pressure gauges, pressure transmitters, pressure sensors and pressure switches.

Recommended Test Pumps



Fluke 730LTP/40K

- Pressure range -40 kPa to 40 kPa
- Ultra-precision fine adjustment. The minimum controllable adjustment granularity is high
- Special insulation which minimises the influence of external temperature



Fluke 730LTP/600K

- Pressure range -95 kPa to 600 kPa
- Pressure is generated by the combination of the pressure rod and screw for faster and smoother pressure increase and decrease
- · Safely switch between pressure and vacuum



Fluke 730PTP/10M

- Pressure range -0.095 MPa to 10 MPa
- Multi-stage boosting is used, which is 5 times the conventional efficiency
- Safety lock ensures safe switching between positive and negative pressure



Fluke 730HTP/70M

- Pressure range 0 MPa to 70 MPa
- The pressure generation by the pressure rod can calibrate pressure meters with a large cavitv
- Fine adjustment via the screw has a high minimum controllable adjustment granularity

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Process Calibration Tools — Pressure Calibration

Medel		e 730G Precision Pressu		Brogguro
lodel	Range	Resolution	Accuracy ¹	Pressure
30G01	-10 to +10 inH20 -20 to 20 mbar -2.49 to 2.49 kPa	0.001 inH20 0.001 mbar 0.0001 kPa	Positive pressure, ±0.2% of range ²	3 psi, 210 mbar 20.6 kPa
730G02	-1 to +1 psi -70 to 70 mbar -6.89 to 6.89 kPa	0.0001 psi 0.001 mbar 0.0001 kPa	Vacuum, $\pm 0.2\%$ of range ²	5 psi 350 mbar 34.4 kPa
730G04	-14 to 15 psi -0.97 to 1 bar -97 to 103 kPa	0.001 psi 0.0001 bar 0.01 kPa		60 psi 4 bar 413.6 kPa
730G05	-14 to 30 psi -0.97 to 2 bar -97 to 206 kPa	0.001 psi 0.0001 bar 0.01 kPa		120 psi 8 bar 827.3 kPa
730G06	-12 to 100 psi -0.83 to 6.9 bar -83 to 690 kPa	0.01 psi 0.0001 bar 0.01 kPa		400 psi 26 bar 2.757 MPa
730G27	-12 to 300 psi -0.83 to 20 bar -83 to 2 MPa	0.01 psi 0.001 bar 0.1 kPa		1200 psi 80 bar 8.273 MPa
730G07	-12 to 500 psi -0.83 to 34 bar -83 to 3.4 MPa	0.01 psi 0.001 bar 0.1 kPa	Positive pressure, ±0.05% of range	2000 psi 138 bar 13.789 MPa
730G08	-14 to 1000 psi -0.97 to 69 bar -97 to 6.9 MPa	0.1 psi 0.001 bar 0.1 kPa	Vacuum, ±0.1% of range	4000 psi 266 bar 27.579 MPa
730G10	-14 to 2000 psi -0.97 to 140 bar -97 to 14 MPa	0.1 psi 0.01 bar 1 kPa		8000 psi 550 bar 55.158 MPa
730G29	-14 to 3000 psi -0.97 to 200 bar -97 to 20 MPa	0.1 psi 0.01 bar 1 kPa		10000 psi 690 bar 68.947 MPa
730G30	-14 to 5000 psi -0.97 to 340 bar -97 to 34 MPa	0.1 psi 0.01 bar 1 kPa		10000 psi 690 bar 68.947 MPa
730G31	-14 to 10000 psi -0.97 to 690 bar -97 to 69 MPa	1 psi 0.01 bar 1 kPa		15000 psi 1035 bar 103.421 MPa
730GA4	0 to 15 psia 0 to 1 bar 0 to 100 kPa absolute	0.001 psi 0.0001 bar 0.01 kPa		60 psi 4 bar 413.6 kPa
730GA5	0 to 30 psia 0 to 2 bar 0 to 200 kPa absolute	0.001 psi 0.0001 bar 0.01 kPa	±0.05% of reprod	120 psi 8 bar 827.3 kPa
730GA6	0 to 100 psia 0 to 6.9 bar 0 to 690 kPa absolute	0.01 psi 0.0001 bar 0.01 kPa	±0.05% of range ⁴	400 psi 27 bar 2.757 MPa
730GA27	0 to 300 psia 0 to 20 bar 0 to 2 MPa absolute	0.01 psi 0.001 bar 0.01 kPa		1200 psi 80 bar 8.273 MPa
730RG04	-14 to 15 psi -0.97 to 1 bar -97 to 100 kPa	0.001 psi 0.0001 bar 0.0001 kPa		45 psi 3 bar 310.2 kPa
730RG05	-14 to 30 psi -0.97 to 2 bar -97 to 200 kPa	0.001 psi 0.0001 bar 0.01 kPa		90 psi 6 bar 620.5 kPa
730RG06	-12 to 100 psi -0.83 to 6.9 bar -83 to 690 kPa	0.01 psi 0.0001 bar 0.01 kPa		1000 psi 69 bar 6.894 MPa
730RG27	-12 psi to 300 psi -0.83 to 20 bar -80 kPa to 2 MPa	0.01 psi 0.001 bar 0.1 kPa		2000 psi 138 bar 14 MPa
730RG07	-12 psi to 500 psi -0.83 to 34 bar -80 kPa to 3.5 MPa	0.01 psi 0.001 bar 0.1 kPa	Positive pressure, $\pm 0.02\%$ of range ³ Vacuum, $\pm 0.05\%$ of range ³	2000 psi 138 bar 13.789 MPa
730RG08	-14 to 1000 psi -0.97 to 69 bar -97 to 6.9 MPa	0.1 psi 0.001 bar 0.1 kPa	- digo	10000 psi 690 bar 68.947 MPa
730RG29	-14 to 3000 psi -0.97 to 200 bar -97 to 20 MPa	0.1 psi 0.01 bar 1 kPa		10000 psi 690 bar 68.947 MPa
730RG30	-14 to 5000 psi -0.97 to 340 bar -97 to 34 MPa	0.1 psi 0.01 bar 1 kPa		10000 psi 690 bar 68.947 MPa
730RG31	-14 to 10000 psi -0.97 to 690 bar -97 to 69 MPa	0.1 psi 0.01 bar 1 kPa		15000 psi 1035 bar 103.421 MPa

Pressure Specifications: 0.02% of full scale (730RG), 0.05% of full scale (730G)

Current Specifications: 0.01% of reading

¹Accuracy specifications above have considered the effects of linearity, repeatability, resolution, reference accuracy, 1-year stability, and temperature effect.

 2 For 730G01/730G02, accuracy is ±0.3% of full scale @ 0°C to 15°C and 35°C to 50°C.

 3 For all 730RG model, add 0.003% FS/°C @ 0°C to 18°C and 28°C to 50°C. 4 For 730GA4, add 0.006% FS/°C @ –10°C to 15°C and 35°C to 55°C; for all other 730GA model, add 0.003% FS/°C @

-10°C to 15°C and 35°C to 55°C.

Media compatibility:

- 10 inH²0, 1, 15, 30 psi: any clean dry non-corrosive gas
- 100, 300, 500, 1000 psi: any liquids or gases compatible with 316 stainless steel and above 1000 psi: any non-
- flammable, non-toxic, non-explosive, non-oxidising liquid or gas compatible with 316 stainless steel
- 730G01, 730G02, 730G04, 730G05, 730RG04, 730RG05: any clean dry non-corrosive gas
- Above 100 psi: any liquids or gases compatible with 316 stainless steel

Recommended Kits Bundle & Save
Fluke-700PTPK Pneumatic Test Kit
Fluke-700HTPK Hydraulic Test Kit
For more details see page 182

Included Accessories

730G: Rechargeable Li-ion Battery Pack, AC Power Battery Charger, ¼" FNPT to ¼" MBSP Fitting, ¼" FNPT to M20 Male Fitting, Test Lead Set, Alligator Clips (black and red), 1 metre USB Cable.

Ordering Information

Please refer to the table on the left for Fluke 730G Models

FLUKE-Pressure 730PCSWCN Calibration Software FLUKE-Hydraulic Test **700HTPK** Pump Kit, O to 10000 psi/ 690 bar FLUKE-**Pneumatic Test 700PTPK** Pump Kit, O to 600 psi/40 bar Low Pressure FLK-730LTP/40K Test Pump, -40 to 40 kPa FLK-Low Pressure 730LTP/600K Test Pump, -95 to 600 kPa **Pneumatic Test** FLK-730PTP/10M Pump, -0.095 to 10 MPa FLK-Hydraulic Test 730HTP/70M Pump, 0 to 70 MPa FLK-730PFK **Pressure Fitting** Kit FLK-730GLSF Gas and Liquid

Separation Filter FLK-730ILF In-line Liquid Filter

Fluke Calibration 2700G Series **Reference Pressure Gauges**



The Fluke Calibration 2700G Reference Pressure Gauges provide best-in-class measurement performance in a rugged, easy-to-use, economical package. Improved measurement accuracy allows them to be used for a wide variety of applications. It is ideal for calibrating pressure measurement devices such as pressure gauges, transmitters, transducers, and switches. In addition, they can be used as a check standard or to provide process measurements with data logging.

- · Precision pressure measurement from 100 kPa (15 psi) to 70 MPa (10000 psi)
- · Accuracy to 0.02% of full scale
- Easy-to-use, rugged construction for reliable performance
- Combine with a Fluke PTP or HTP pump kit or P551X comparison test pump for a complete pressure testing solution
- One-year warranty

Fluke Calibration P5510 **Pneumatic Comparison Test Pump**



Fluke P5510

The P5510 Pneumatic Comparison Test Pump is designed for testing pressure measuring instruments against master test instruments. This cost effective instrument provides precise control for important calibration requirements and includes many features found in our line of pneumatic deadweight testers.

One-year warranty.

Higher pressure ranges available: Fluke P5513 Gas Comparison Test Pump Pressure range 0 to 20 MPa (3000 psi); Vacuum -80 kPa (-12 psi)

Fluke P5514B Gas Comparison Test Pump Pressure range 0 to 70 MPa (10k psi)

Fluke P5515 Gas Comparison Test Pump Pressure range 0 to 140 MPa (20k psi)

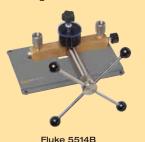
P5531 Dirt/Moisture Trap

Designed to mount directly on the deadweight tester and featuring an acrylic chamber for visibility of contaminates, this unit utilizes the standard test port adapters for easy instrument connections.

P5532 Dirt/Moisture Trap

This high pressure version is provided with an aluminum central chamber for safety and uses the standard test port adapters.

Complete Bench Top Pressure Calibration Solution



Combine P5500 Comparison Test Pumps with one or more 2700G Reference Pressure Gauges for a complete 0.02% accuracy calibration system

The 2700G has an easy-to-use interface that allows you to configure the sampling rate, tare value, damping and auto off time interval as well as reset the min/max pressure.

The unique test port design of the P5500 Series allows for hand tight connection of the 2700G without using PTFE tape.

- P5510: integrated pneumatic hand pump with pressure generation to 300 psi (2 MPa), vacuum to -12 psi (-80 kPa)
- P5513: pneumatic pressure adjustment to 3000 psi (21 MPa) with fine adjust inlet and outlet valves and precise screw press
- P5514B: hydraulic pressure generation and adjustment to 10000 psi (70 MPa) with fine screw press and reservoir
- P5515: integrated hydraulic pressure generation and adjustment to 20000 psi (140 MPa) with high volume priming pump and fine screw press

Included Accessories

Fluke 2700G Gauges: 1/4 NPT Female to 1/4 BSP Male Adapter, 1/4 NPT Female to M20X1.5 Adapter, Universal AC Power Supply, USB Communication Cable, Manual on CD, Calibration Certificate showing traceability.

Optional: ISO 17025 Accredited Calibration available for 2700G and P551X/2700G models (add "/C" to the below model number).

Ordering Information

Ordering	J Information	
2700G-	Reference Pressure Gauge,	
BG100K	-15 to 15 psi	
2700G-	Reference Pressure Gauge,	
BG200K	-15 to 30 psi	
2700G-	Reference Pressure Gauge,	
BG700K	-12 to 100 psi	
2700G-	Reference Pressure Gauge,	
BG2M	-12 to 300 psi	
2700G-	Reference Pressure Gauge,	
BG3.5M	-12 to 500 psi	
2700G-	Reference Pressure Gauge,	
BG7M	-12 to 1000 psi	
2700G-	Reference Pressure Gauge,	
G20M	0 to 3000 psi	
2700G-	Reference Pressure Gauge,	
G35M	O to 5000 psi	
2700G-	Reference Pressure Gauge,	
G70M	0 to 10000 psi	
P5510-	Pneumatic Comparison	
2M	Test Pump	
P5513-	Pneumatic Comparison	
20M	Test Pump	
P5514B- 70M*	Hydraulic Comparison Test Pump, Viton Seals O to 10000 psi (70 MPa)	
P5515- 140M*	Hydraulic Comparison Test Pump, Viton Seals O to 20000 psi (140 MPa)	
Ethylene F available, numbers.	Propylene Seals option also add –EP to the above model	
P5510- 2700G-1	P5510 Pneumatic Calibrator, 2 MPA (300 psi), 1 Gauge	
P5513- 2700G-1	P5513 Pneumatic Calibrator, 20 MPA (3000 psi), 1 Gauge	
P5514B- 2700G-1	P5514B Pneumatic Calibrator, 70 MPA (10000 psi), 1 Gauge	
P5515- 2700G-1	P5515 Pneumatic Calibrator, 70 MPA (10000 psi), 1 Gauge	
P551X-2700G Kits available with 3 gauge option, replace –1 with –3 to the above model numbers.		
P5531	Dirt/Moisture Trap O to 500 psi (35 bar)	

P5532 Dirt/Moisture Trap 0 to 3.00 psi (210 bar)



Fluke Calibration 700HPPK **Pneumatic Test Pump Kit**



Fluke 700HPPK





Generates 21 MPa (3000 psi) easily in the field, without liquid contamination or the hazard of a pressurized gas cylinder.

The Fluke Calibration 700HPPK Pneumatic Test Pump Kit generates and adjusts pneumatic pressures up to 21 MPa (3000 psi), without requiring a nitrogen bottle or other external pressure supply. It supplies pressure to devices under test (DUTs) that include transmitters, controllers, pilots, digital and analog gauges, and more. It's the perfect solution for generating high pressure in the field, where conditions and operating surfaces can vary.

The 700HPPK is the ideal choice for calibration technicians, test engineers, and instrument technicians working in industries like natural gas transmission and distribution, process, aerospace and defense, who need a simple-to-use, safe and portable pressure source that they can depend on in a wide variety of conditions.

The 700HPPK contains both a calibration manifold and high pressure pump to generate and finely adjust pressures. A second model, the 700HPP, is available for people who only prefer a high pressure source.

Use the 700HPPK Test Pump Kits with 2700G Reference Pressure Gauges or 700G Precision Pressure Gauges for a complete pressure calibration solution.

- · Generate and adjust pneumatic pressures up to 21 MPa (3000 psi)
- Rugged, portable and stable enough to go anywhere on any surface
- · Reaches pressure in 20 seconds to full scale into a 30 cm³ volume
- · Detachable pressure adjustment system for adjusting pressure, connecting reference and test devices on bench and in the field, and isolating and venting pressure
- · Easily switch out reference gauges without requiring PTFE tape or tools
- 2 m (6.5 ft) pressure line and assorted pressure fittings enable a wide variety of possible connections
- · In-line filter and desiccant systems protect device from contamination from the DUT
- One-year warranty

General specifications	700HPP	700НРРК		
Maximum working pressure	21 MPa, 3000 psi			
Time to generate full scale pressure with 10 cc volume (g)	20			
Weight	5.5 kg (12.2 lbs.)	7.2 kg (15.8 lbs.)		
Dimensions	66 × 25 × 13 cm (26 in x 10 in x 5 in)	66 × 30.5 × 13 cm (26 in x 12 in x 5 in)		
Reference gauge connection	1/4 NPT, quick connect			
Inlet supply contaminations protection filter	Desiccant filter			
DUT contamination protection filter	-	100 micron		
Fine adjustment resolution	- 0.05% reading			
Maximum leak rate	-	0.01% reading		

Recommended Accessories



High Pressure atic Calibration Manifold

6

\$ 8-0

700HPF-BSP High Pressure Premium Fittings,

BSP Fittings

Pne

High Pressure Premium Fittings, NPT Fittings

₹~~19 700HPF-MET

High Pressure Premium Fittings, Metric Fittings



700G Pressure Gauge Calibrator

2700G Reference Pressure Gauges

Included Accessories

Fluke Calibration 700HPPK: Canvas Carrying Bag, High **Pressure Pneumatic Quick** Service Kit (seals for pump), Dry Pac Refill, Silicone Grease, High Pressure Hose, Test Port Adapters

Ordering Information

· · · · · · · · · · · · · · · · · · ·	
700HPPK-NPT	High Pressure Pneumatic Pump/ Comparator, 21 MPa (3000 psi), NPT
700HPP-NPT	High Pressure Pneumatic Test Pump, 21 MPa (3000 psi), NPT
700HPPK-BSP	High Pressure Pneumatic Test Pump/ Comparator, 21 MPa (3000 psi), BCP
700HPP-BSP	High Pressure Pneumatic Test Pump, 21 MPa (3000 psi), BSP
700HPPK-MET	High Pressure Pneumatic Pump/ Comparator, 21MPa (3000 psi), Metric
700HPP-MET	High Pressure Pneumatic Test Pump, 21MPa (300 psi), Metric

Fluke Calibration P3000 Deadweight Testers



Fluke P3000

The P3000 Series is the culmination of over 50 years of experience in the production and design of high performance pressure standards.

With features designed to improve accuracy and performance, increase reliability and simplify operation, these deadweight testers can be used to calibrate virtually any pressure sensing device, including transducers, transmitters, gauges or pressure switches. All units provided with accredited calibration.

P3000 Pneumatic Deadweight Tester

High performance gas deadweight testers with unique suspended piston design for vacuum calibration.

- 0.01% of reading accuracy standard (0.008% optional)
- 3 to 500 psi (0.2 to 35 bar) pressure
- Optional low range 0.03 to 1 bar vacuum (1 to 30 inHg)
- · Integrated vacuum and pressure pump available to 2 MPa (300 psi)

P3100 Hydraulic Deadweight Tester

Highly accurate oil deadweight tester with quick and easy-to use single and dual piston deadweight models

- Pressure ranges to 140MPa (20000 psi, 1400 bar)
- 0.01% of reading accuracy standard (0.008% optional)
- · Built in pressure generation and adjustment
- · Single or dual piston formats

P3200 Hydraulic Deadweight Tester

Hydraulic deadweight tester specially designed to use water as a test medium.

- Pressure ranges to 70MPa (10000 psi, 700 bar)
- 0.01% of reading accuracy standard (0.008% optional)
- · Built in pressure generation and adjustment is standard
- · Single or dual piston formats
- Water media

Accuracy*

±0.01% of reading (±0.008% optional)

*Accuracy based on% of reading from 10% to 100% of the piston range when used in accordance with the corrections found on the calibration certificate. Below $10\% \pm (accuracy class) \times 10\%$ of the piston range

Standard weight material	Series 3 non-magnetic austenitic stainless steel		
Weight density	7.8 g/cm ³		
Optional fractional weights	Solution heat treated aluminum		
Weight density	2.7 g/cm ³		
Models P3011, P3012, P3013, P3022, P3023, P3025 (V)	Piston Material: Cylinder Material: Coefficient of Expansion:	Ceramic Martensitic steel 11 ppm/° C	
Models P3014, P3015, P3025 (P) P3031, P3032 (P & V)	Piston Material: Cylinder Material: Coefficient of Expansion:	Tungsten carbide Martensitic steel 16.5 ppm/° C	

PressCal Software

PressCal software provides a quick and effective solution to enhance the pressure measurement uncertainty of Deadweight Testers.

PressCal features an easy-to-use user Interface that allows you to enter all the necessary corrections and parameters to accurately determine the pressure generated by the DWT.

- Automatic certificate generation
- Customer details management

Recommended Accessories

5540 Metric & 5541 BSP Adapter Sets

P5543 Angle Adapter

Included Accessories

ISO 17025 Accredited Calibration Certificate, Operating Fluid (where applicable), Spare Seals, Adaptors for 1/8, 1/4, 3/8, 1/2 NPT and BSP, and Metric Adaptors (M20 and M14).

Ordering Information

* -P indicates built-in pump optional.			
P3011-	Vacuum Deadweight		
KPA-P*	Tester (-100 kPa)		
P3011-	Vacuum Deadweight		
INHG-P*	Tester (-30 inHg)		
P3011-	Vacuum Deadweight		
MBAR-P*	Tester (-1000 mbar)		
P3011-	Vacuum Deadweight		
MMHG-P*	Tester (-760 mmHg)		
P3012-	Gas Deadweight Tester,		
KPA-P	100 kPa, with Pump		
P3012-	Gas Deadweight Tester,		
MBAR-P	1000 mbar, with Pump		
P3012-	Gas Deadweight Tester,		
INH20-P	400 inH ₂ 0, with Pump		
P3013-	Gas Deadweight Tester,		
KPA-P	200 kPa, with Pump		
P3013-	Gas Deadweight Tester,		
MBAR-P	2000 mbar, with Pump		
P3013-	Gas Deadweight Tester,		
INH20-P	800 inH ₂ 0, with Pump		
P3014-	Gas Deadweight Tester,		
KGCM2-P	10 kgf/cm2, with Pump		
P3014-	Gas Deadweight Tester,		
PSI-P	150 psi, with Pump		
P3014-	Gas Deadweight Tester,		
KPA-P	1000 kPa, with Pump		
P3014-	Gas Deadweight Tester,		
MPA-P	MPa, with Pump		
P3015-	Gas Deadweight Tester,		
BAR-P*	35 bar		
P3015-	Gas Deadweight Tester,		
KGCM2-P*	35 kgf/cm2		
P3015-	Gas Deadweight Tester,		
PSI-P*	500 psi		
P3015-	Gas Deadweight Tester,		
KPA-P*	3500 kPa		
P3015-	Gas Deadweight Tester,		
MPA-P	3.5 MPa		

• Real-time auditing • Choice of 12 pressure units

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Fluke Calibration 3130 Portable Pressure Calibrator



Fluke P3130



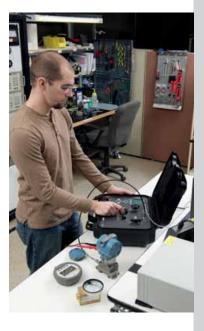
The Fluke 3130 Portable Pneumatic Pressure Calibrator is ideal for calibrating pressure transmitters, transducers, gauges and similar devices. The Fluke 3130 contains everything you need to generate, control and measure pressure, as well as read the output of the device under test.

- Measure and generate pressures from vacuum to 2 MPa (300 psi, 20 bar)
- Internal pump can generate vacuum to -80 kPa (-12 psi, -0.8 bar) or pressure to 2 MPa (300 psi, 20 bar)
- Supply pressure connection allowing the use of external gas supply up to 2 MPa (300 psi, 20 bar)
- Measure or generate 4-20 mA
- Measure 0 to 30 V DC
- Compatible with Fluke 750P Pressure Modules
- Variable volume for fine adjustment of pressures
- Pressure measurement accuracy of ±(0.025% reading + 0.01% FS)
- Electrical measurement and 24 volt supply for close looped calibrations
- One year warranty

Environmental	
Temperature	Operating: -10°C to +50°C; Storage: -20°C to +60°C
Physical	
Size in cm (LxWxD) and Weight	38.7 × 30.5 × 17.8, 7.7 kg
EMI/RFI Conformance	EN61326:2006 Annex A
Connectors/Ports	1/8 in NPT (External supply port and test port)
Ranges	
Pressure (internal pump)	-80 kPa to 2 MPa (-12 to 300 psi, -0.8 to 20 bar)
Pressure (external air)	0 to 2 MPa (0 to 300 psi, 0 to 20 bar)
mA	0 to 24.000 mA
Volts	0 to 30.000 V DC
Instrumental Measurement Uncertainty	
Pressure	±(0.025% of reading + 0.01% FS)
mA	±(0.015% of reading + 0.02% mA)
Volts	±(0.015% of reading + 0.02% V)

Recommended Accessories Fluke 3130 JSOPXX CPS-2270-20M-P3K

Pressure Module See page 131 CPS-2270-20M-P3K Contamination Prevention System, P3000 Test Port Connection



Included Accessories

Fluke Calibration 3130: Ruggedised Case, Rechargeable, NiMH Battery, Test Leads, Operating Manual.

Ordering Information

3130-G2M Portable Gas Pressure Calibrator

3130-G2M/C Portable Gas Pressure Calibrator with Accredited Calibration

Fluke 729 Automatic **Pressure Calibrator**









Portable automatic pressure calibrator simplifies pressure calibration

The Fluke 729 Automatic Pressure Calibrator has been designed specifically with process technicians in mind to simplify the pressure calibration process and provide faster, more accurate test results. Technicians know that calibrating pressure can be a time consuming task, but the 729 makes it easier than ever with an internal electric pump that provides automatic pressure generation and regulation in an easy-to-use, rugged, portable package.

The Fluke 729 can also automatically test multiple pressure test points and automatically document the results. Calibration is as easy as typing in the starting and ending pressure and the number of test points and tolerance level; the 729 does the rest.

With three ranges to choose from 30 psi (2 bar, 200 kPa), 150 psi (10 bar, 1 MPa) and 300 psi (20 bar, 2 MPa), the Fluke 729 Automatic Pressure Calibrator is designed to perform when and where you need.

- · Automatic pressure generation and regulation to 300 psi
- Easily document the process using on-board test templates
- Automatic internal fine-pressure adjustment
- Measure, source and simulate 4 to 20 mA signals • 24 V loop power for powering transmitters for tests
- HART® communication for testing HART smart
- transmitters Built-in leak testing for verifying test setups for leakage
- Fluke Connect[®] App compatibility
- Measure temperature with optional 720RTD probe
- Measure VDC for testing 1 V DC to 5 V DC output • transmitters
- Compatible with Fluke 700G Series and 750 Series Pressure Modules
- Upload documented test results to DPCTrack2[™]
- Calibration Management Software to manage your instrumentation, create scheduled tests and reports and manage calibration data
- Three year warranty

Pressure specification*

One-year specification	0.02% of full scale
Control specification	0.005% full scale minimum

See	manual	for	detailed	specifications
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Model	Psi range, resolution	Bar range, resolution	kPa range, resolution	Comment
729 30G	-12.0000 to 30.0000 psi	-0.82737 to 2.06842 bar	-82.737 to 206.843 kPa	No wireless communication
729 150G	-12.000 to 150.000 psi	-0.8273 to 10.3421 bar	-82.73 to 1034.21 kPa	No wireless communication
729 300G	-12.000 to 300.000 psi	-0.8273 to 20.6843 bar	-82.73 to 2068.43 kPa	No wireless communication
729 30G FC	-12.0000 to 30.0000 psi	-0.82737 to 2.06842 bar	-82.737 to 206.843 kPa	Wireless communication for Fluke Connect®
729 150G FC	-12.000 to 150.000 psi	-0.8273 to 10.3421 bar	-82.73 to 1034.21 kPa	Wireless communication for Fluke Connect®
729 300G FC	-12.000 to 300.000 psi	-0.8273 to 20.6843 bar	-82.73 to 2068.43 kPa	Wireless communication for Fluke Connect®

Recommended Accessories



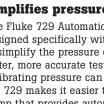
Included Accessories

See page 173

Soft Case, Stackable Test Leads, AC280 Hook Clips, Alligator Clips, Test Probes, Magnetic Hanger Kit, Carrying Strap, Power Supply, Rechargeable Battery (installed), Hose Kit with Push Fit Adapters, Hanging Clip, USB Cable, 1/8 in FNPT to 1/4 in FNPT Adapter, 1/8 in FNPT to F-M2O Adapter, 1/8 in FNPT to 1/4 in FBSP Adapter, PTFE Tape, (2) Sintered Filters, Liquid Dirt Trap, Water Trap Drain and Valve Tuning Hoses, Wireless Adapter (FC Models only), Quick Start Guide, Safety Sheet.

Ordering Information

FLK-729 30G	30 psi, 2 Bar Automatic Pressure Calibrator
FLK-729 150G	150 psi, 10 Bar Automatic Pressure Calibrator
FLK-729 300G	300 psi, 20 Bar Automatic Pressure Calibrator
FLK-729 30G FC	30 psi, 2 Bar Automatic Pressure Calibrator with Fluke Connect [®]
FLK-729 150G FC	150 psi, 10 Bar Automatic Pressure Calibrator with Fluke Connect [®]
FLK-729 300G FC	300 psi, 20 Bar Automatic Pressure Calibrator with Fluke Connect®
FLUKE-729/ 750SW BU	300 psi, 20 Bar Automatic Pressure Calibrator and DPCTRACK2 Software Bundle



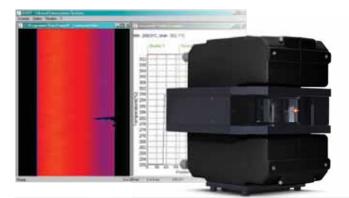




The ability to quickly and accurately measure and verify temperatures throughout the manufacturing process has enabled innovators and producers to bring their projects to life, successfully deliver scalable results, and overall help the world function better.

Thermal profiling and non-contact monitoring solutions optimize the production process for just about every sector. From the manufacturing of consumer goods to large scale construction initiatives and mining, our tools help to ensure precision, safety and consistency.

For more information, visit flukeprocessinstruments.com



Edge-to-edge Thermal Imaging to see it all.

Designed for the harshest environments, the MP Linescanner Series provides accurate, edge-toedge, real-time thermal imaging and temperature measurements for continuous processes. See it all with up to 300Hz scan speed and 1024 data points per scan, allowing you to find faulty temperatures, such as hot spots, before an error occurs.



See what you've been missing.

Visualize the unheard and unseen with the power of acoustic imaging. The SV600 Fixed Acoustic Imager enables users to continuously detect, locate and visualize air and gas leaks or changes in sound signatures before they become costly problems. As a fixed, automated solution, the SV600 integrates with your process and eliminates the need for lengthy fault-finding processes such as soapy water tests, when used as part of your product leak testing process.



Expand your view, expand your understanding

The ThermoView TV40 is a high-performance industrial fixed thermal imaging system that allows you to expand your understanding by providing continuous infrared and visual feeds to visualize temperature data. The TV40 offers a fully integrated temperature control, monitoring, and data archiving solution.

Mechanical Maintenance

Fluke Mechanical Maintenance Testers are designed specifically for maintenance professionals who need to quickly and easily perform precision shaft alignments on most rotating machines in the plant and perform vibration analysis and evaluate alignment to understand the root cause of equipment condition.

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Series (Memore) Est



Fluke 805 FC Vibration Meter

Forget the pens, think meter



The Fluke 805 FC is not a vibration pen; it's a meter. A Fluke meter that eliminates the confusion of vibration screening and provides reliable measurements you can trust to make critical go or no-go maintenance decisions. With the Fluke 805 FC, you can identify the strength and severity of vibration and easily track data over time to monitor an asset's condition.

- Innovative sensor design minimizes measurement variations caused by device angle or contact pressure
- Consistent data quality at both low and high frequency ranges
 Four-level severity scale assesses urgency of problems for
- overall vibration and bearing condition
- Exportable data via USB
- Trending in Microsoft[™] Excel using pre-built templates
- Overall vibration measurement (10 Hz to 1000 Hz) for acceleration, velocity and displacement units of measurement for a wide variety of machines
- Crest Factor+ technology provides reliable bearing assessment using direct sensor tip measurements between 4000 Hz and 20000 Hz
- Compare vibration levels with ISO-10816 severity scales and store results to the Fluke Connect™ Cloud
- Fluke Connect ${}^{ \mathrm{\scriptscriptstyle TM}}$ Share-Live ${}^{ \mathrm{\scriptscriptstyle TM}}$ video call
- Colored lighting system (green, red) and on-screen comments indicate how much pressure needs to be applied to take measurements
- Temperature measurement with Spot Infrared Sensor increases diagnostic capabilities
- On-board memory holds and saves up to 3500 measurements
- One-year warranty

Specifications		
Vibration meter	Low frequency range (overall measurement)	10 Hz to 1000 Hz
	High frequency range	4000 Hz to 20000 Hz
	(CF+ measurement)	
	Severity levels	Good, Satisfactory, Unsatisfactory, Unacceptable
	Vibration limit	50 g peak (100 g peak-peak)
	A/D converter	16-bit
	Signal to noise ratio	80 dB
	Sampling rate	Low frequency: 20000 Hz;
		High frequency: 80000 Hz
	Real-time clock backup	Coin battery
Sensor	Sensitivity	100 mV/g ±10%
	Measurement range	0.01 g to 50 g
	Low frequency range	10 Hz to 1000 Hz
	(overall measurement)	
	High frequency range	4000 Hz to 20000 Hz
	(CF+ measurement)	
	Resolution	0.01 g
	Accuracy	At 100 Hz ±5% of measured value
Infrared thermometer (temperature measurement)	Range	-20° C to 200° C (-4 °F to 392 °F)
	Accuracy	±2°C(4°F)
	Focal length	Fixed, at ~3.8 cm (1.5 in)
External sensor	Frequency range	10 Hz to 1000 Hz
(Supported, but not	Bias voltage (to supply power)	20 V DC to 22 V DC
provided)	Bias Current (to supply power)	Maximum 5 mA
Firmware	External interfaces	USB 2.0 (full speed) communication
	Data capacity	Database on internal flash memory
	Memory	Up to 3500 measurements
Environmental	IP rating	IP54
	Drop test	1 meter (3.38 ft)
General	Battery type	AA (2) Alkaline or Lithium-ion 2 V DC
specifications	Battery life	250 measurements
	Size (LxWxH) and Weight	25.72 × 16.19 × 9.84 cm (10.13 × 6.38 × 3.875 in), 1.16 kg g (2.55 lb)
	Connectors	USB mini-B 7-pin, stereo audio output jack
		(3.5 mm Audio Plug), external sensor jack
		(SMB connector)





External Assembly Vibration Sensor

Fluke 820-2 LED Stroboscope



The Fluke 820-2 LED Stroboscope is a simple, easy-to-use tool to stop motion for measurement and diagnostic purposes.

Investigate and observe potential mechanism failure with confidence on a variety of machinery, in a wide range of industries, without making physical contact with the machine. The Fluke 820-2 LED Stroboscope is a rugged, compact, portable strobe with high intensity LED head, ideal for stop motion diagnostics, mechanical troubleshooting, and process or product research and development.

- High intensity 7-LED array— 4800 lux @ 6000 FPM/30 cm (flashes per minute)
- High efficiency LED solid-state light source with uniform flash characteristics allow for higher flash rates—30-300000 FPM
- Digital pulse width modulation for exceptionally sharp images at high speeds
- Rugged, durable design utilizes solid-state LEDs with no filaments, gases, hollow cavities, or glass
- Quartz-accuracy control system provides high accuracy — ±(0.02% + 1 digit)
- Multi-line LCD display
- Check the rotating speed of machinery without physical contact or need for reflective tape

Included Accessories

USB Cable, Storage Case, Belt Holster, Quick Reference Guide, CD-ROM (includes MS Excel Template and Documentation) and Two AA Batteries.

Ordering Information

FLUKE-805FC	Fluke Connect™ Vibration Meter
FLUKE 805ES	External Vibration Sensor for 805 Vibration Meter
FLK-820-2	LED Stroboscope

Fluke 810 Vibration Tester

Take a vibration expert along





Get answers now!

The Fluke 810 Vibration Tester is the most advanced troubleshooting tool for mechanical maintenance teams who need an answer now. It is a unique new kind of troubleshooting tool, engineered to detect and evaluate the most common mechanical problems.

The Fluke 810 Vibration Tester uses a simple step-by-step process to report on machine faults the first time measurements are taken, without prior machine history.

- Easily determine the root cause, location and severity of common mechanical faults
- Efficiently prioritize and plan equipment repair or replacement
- Effectively deploy maintenance resources at the point of greatest impact
- Three-year warranty

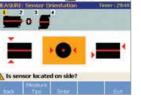
Simple 3 Step Process

The Fluke 810 helps you locate and diagnose common mechanical problems and prioritize repair actions in three simple steps:



1. Setup: Vibration testing has never been easier. The Fluke 810 asks for basic machine information you already know, like RPM and horsepower. Its onboard info feature gives you field tips for setting up and taking measurements like a professional.

Diagnostic specifications



2. Measure: The Fluke 810 easily fits into your maintenance routine. Use it to quickly troubleshoot problems or monitor machine condition.



3. Diagnose: Fix it right the first time with the press of a button, the Fluke 810 identifies the root cause, its location, and the problem's severity.

Analysis for Motors, fans, blowers, belts and chain drives, gearboxes, couplings, centrifugal pumps, piston pumps, sliding vane pumps, propeller pumps, screw pumps, rotary thread/gear/lobe pumps, piston compressors, centrifugal compressors, screw compressors, closed coupled machines, spindles Standard faults Unbalance, looseness, misalignment and bearing failures Motor rotational speed range 200 rpm to 12000 rpm Diagnosis details Plain-text diagnosis, fault severity (slight, moderate, serious, extreme), repair details, cited peaks, spectra **Tester specifications** Ingress Protection (IEC 60529) IP54 A/D converter 4 channel, 24 bit Dynamic range 128 dB FFT resolution 800 lines Battery Lithium-ion, rechargeable, 8 hours operating life 2 GB internal + user accessible slot for additional storage Onboard storage capacity **Sensor specifications** Sensor type Tri-axial accelerometer, 100 mV/g (±5%, 25° C (77° F)) **Tachometer specifications** Laser Diode Class 2 Tachometer type



Tri-axial TEDS Accelerometer, Accelerometer Magnet Mount, Accelerometer Mounting Pad Kit with Adhesive, Accelerometer Quick Disconnect Cable, Laser Tachometer and Storage Pouch, Smart Battery Pack with Cable and Adapters, Shoulder Strap, Adjustable Hand Strap, Viewer PC Application Software, Mini-USB to USB Cable, Getting Started Guide, Illustrated Quick Reference Guide, User Manual CD, Instructional Training DVD, Hard Carrying Case.

Ordering Information

FLUKE-810

Vibration Tester



Recommended Accessories

810SMM Sensor Magnetic Mou

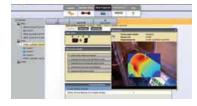
810T



81**0**S

Viewer PC Software

- Store and track your data
- Generate diagnostic reports and track the severity of your machine's condition
- Import and store JPEG images



Interactive, self-paced training on DVD

Learn more about the basics of vibration and how to fully utilise the features and functionality of the Fluke 810. Fluke has partnered with Mobius Institute, an industry leader in vibration training, to develop an interactive training DVD included with each Fluke 810.

Fluke 831 Laser Shaft Alignment Tool

Precise alignment that adapts to your needs





Precision shaft alignment made easy

The Fluke 831 Laser Shaft Alignment Tool is the ideal test tool to precision-align rotating shafts in your facility. If you're still using rulers and dial indicators to ensure your rotating machinery is properly aligned, you could be losing thousands of dollars per year in replacement bearing costs, hours of unnecessary repair time and crippling unplanned downtime, not to mention taking years off your machine's useful life.

- The single-laser measurement technology results in better data accuracy
- The intuitive guided user interface and touch tablet helps you quickly complete machine alignments
- Easy for the novice yet powerful for the skilled technician which means you can cover more of your machines - all the functionality needed on the plant floor like thermal growth, user defined tolerances, etc.

General specifications				
СРИ	Processor: Exynos 9810, 2.7GHz,1.7GHz Octa-Core Memory: 4 GB RAM, 64 GB Flash memory			
Display	Technology: TFT Integrated light sensor for automated adjustment of the brightness to the display according to the lighting conditions hence extending battery life. Resolution: 1920 x 1200 Pixel Size: 203.1 mm (8")			
Connectivity	Wi-Fi: 802.11 a/b/g/n/ac/ax 2.4G+5GHz, HE80, MIMO, 1024-QAM. Wireless: 5.0 RFID: NFC			
Camera	Main camera resolution: 13.0 MP, Auto Focus Front camera resolution: 5.0 MP			
Environmental protection	IP 68: dustproof, submersible 1.5 m			
Ingress Protection (IEC 60529)	IP65 (dustproof and water spray resistant), shockproof Relative humidity 10% to 90%			
Temperature range	Operation: -20°C to 50°C (-4°F to 122°F)			
Battery	Battery Type: Li-Ion rechargeable battery 3.8 V / 5 3.8 V / 5050 mAh / 19.2 Wh Operating time: Up to 11 hours			
Dimensions/weight (without hand straps)	Approx. 256 x 149 x 35 mm (10 5/64" x 5 55/64" x 1 3/8") Approx. 710 g (1.6 lbs)			
Reflector				
Туре	90° roof prism			
Accuracy (average)	> 99%			
Environmental protection	IP 67 (submersible, dustproof)			
Sensor				
Measurement principle	Coaxial, reflected laser beam			
LED indicators	1 LED for laser beam status and battery status			
Power supply				
Battery	Lithium-Ion rechargeable battery 3.7 V / 5 Wh			
Operating time	10 hours (continuous use)			
Charging time	Using charger – 2.5 h for up to 90% 3.5 h for up to 100% Using USB port – 3 h for up to 90% 4 h for up to 100%			



FLUKE-830/MAGNET Compact magnetic sensor, prism mounting bracket

Recommended Kits



Fluke 830/SHIMS Precision Alignment Kit

Evaluate Alignment in 3 Simple Steps





Measure



Included Accessories

Sensor laser, reflector prism, chain-type mounting bracket with 150 mm support posts (2x), 300 mm support post (4x), lens cleaning cloth, USB sensor cable, USB PC cable, USB drive, USB drive cable, tape measure, power adapter (2x), quick reference guide and safety information sheet, carrying case

Ordering Information

FLK-831

Laser Shaft Alignment Tool

Intrinsically Safe Test Tools

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ALC: NO

Intrinsically Safe (Ex) test tools have been certified for use in potentially explosive atmospheres. Certified Ex tools have been engineered to prevent the release of energy sufficient to cause ignition of the explosive atmospheres for which the equipment is rated (gasses, dusts, flyings etc.) under any normal use or foreseeable fault condition within the equipment.

Intrinsically Safe Test Tools

for Hazardous Areas

Intrinsically Safe (Ex) test tools have been certified for use in potentially explosive atmospheres. Certified Ex tools have been engineered to prevent the release of energy sufficient to cause ignition of the explosive atmospheres for which the equipment is rated (gasses, dusts, flyings etc.) under any normal use or foreseeable fault condition within the equipment.



ATEX – The primary intrinsically safe standard, which has been set in the European Union with the Directive 94/9/EC, commonly called ATEX (ATmosphères EXplosibles).

Fluke Pro	ducts	ATEX	certified	Certification
	28 II Ex Intrinsically Safe True-RMS Multimeter		II 2G Ex ia IIC T4 Gb I M1 Ex ia I Ma	Class I, Div 1, Groups A,B,C,D T4 Class I, Zone 1, AEx ia IIC T4 Ex ia IIC T4 IP67
	718Ex Intrinsically Safe Pressure Calibrator		II 1G Ex ia IIC T4 Ga	I.S. Class I, Div 1, Groups A,B,C,D T4
	721Ex Intrinsically Safe Precision Pressure Calibrator		II 2G Ex ia IIB T3 Gb	IECEx: Ex ia IIB T3 Gb
	750PEx Intrinsically Safe Pressure Modules		II 1G Ex ia IIC T4 Ga	IECEx: Ex ia llC T4 Ga
7	568Ex Intrinsically Safe Infrared Thermometer		II 2G Ex ia IIC T4 Gb	Class I, Div 1, Groups A,B,C,D, T4 Class I, Div 2, Groups A,B,C,D, T4 Class I, Zone 1, AEx ia IIC T4 Gb
	700G Series Intrinsically Safe Pressure Gauges		II 3G Ex ic IIB T6 Gc	CSA Class I, Div. 2 Groups A,B,C,D
	1551A Ex/1552A Ex Intrinsically Safe "Stik" Thermometers		II 2G Ex ib IIB T4 Gb	IECEx: Ex ib IIB T4 Gb
	Fluke FL-45 Ex Intrinsically Safe Flashlight		II 1G Ex ia IIC T5 Ga I M1 Ex ia I Ma	Class I Div 1 and 2 Group A,B,C,D Class II Div 1 and 2 Group E,F,G Class III T5 IP67
	Fluke FL-120 Ex Intrinsically Safe Flashlight		II 1G Ex ia IIC T4 Ga I M1 Ex ia I Ma	Class I Div 1 and 2 Group A,B,C,D Class II Div 1 and 2 Group E,F,G Class III T4 IP6X
	Fluke FL-150 Ex Intrinsically Safe Flashlight		II 1G Ex ia IIC T4 Ga I M1 Ex ia I Ma	Class I Div 1 and 2 Group A,B,C,D Class II Div 1 and 2 Group E,F,G Class III T4 IP67
ø	Fluke HL-200 Ex Intrinsically Safe Headlamp		II 1G Ex ia IIC T4 Ga	Class I Div 1 and 2 Group A,B,C,D Class II Div 1 and 2 Group E,F,G Class III T4 IP67



Ordering Information				
FLUKE-28IIEX/ ETL	Intrinsically Safe True- RMS Digital Multimeter			
FLUKE-718EX (30, 100, 300G ranges)	Intrinsically Safe Pressure Calibrator			
FLUKE-721EX	Intrinsically Safe Pressure Calibrator			
FLUKE-750PEX (750P: 01, 05, 06, 09, 24, 27, 29, A4Ex)	Intrinsically Safe Pressure Modules			
FLUKE-568EX	Intrinsically Safe Infrared Thermometer			
FLUKE-700G	Pressure Test Gauges (23 ranges) 0 to 10 in H20 up to 10000 psi			
FLUKE-1551AEX FLUKE-1552AEX	"Stik" Thermometer 1551A: -50 to 160C 1552A: -80 to 300C			
FLUKE-568EX	Intrinsically Safe Infrared Thermometer			
FL-45 EX	45 Lumen Intrinsically Safe Flashlight			
FL-120 EX	120 Lumen Intrinsically Safe Flashlight			
FL-150 EX	150 Lumen Intrinsically Safe Flashlight			
HL-200 EX	200 Lumen Intrinsically Safe Headlamp			

Insulated Hand Tools

Safe, rugged and with a lifetime warranty, Fluke premium insulated hand tools, are forged from German steel and built to last a lifetime

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Fluke Insulated Hand Tools













Fluke Insulated Screwdrivers

Precision insulated tools fit and rip the fastener properly to apply maximum torque without damage to the head. Hardened chromium-molybdenum-vanadium steel blades minimize wear. Fluke offers three styles and multiple sizes—seven drivers in all. All certified to 1000 Volts AC and 1500 V DC. Every screwdriver individually tested to 10000 volts.

- Ergonomic handle adapts to the user's hand, causing less strain and work fatigue and providing maximum torque
- The full length, impact-proof handle core is coated with soft-grip outer material and has a hanging hole for extra security and an anti-roll handle design
- The slim insulated shaft allows access in hard to reach areas
- All blades are manufactured from German CMV steel for superior durability

Fluke Insulated Pliers and Cutters

Fluke insulated pliers and cutters give you a range of options when the job requires jaws with bite. All Fluke pliers and cutters are built with German CMV steel.

Long Nose Pliers

- Unique milled wave pattern gripping zones
- Straight, half-round, long and slim knurled jaws, specially profiled
- Side cutting edge for wire cutting

Heavy-Duty, High-Leverage Diagonal Cutter

- Cuts hard materials including steel and piano wire
- Power joint and precision cutting edges

Fast Adjust Pump Pliers

- 27 jaw adjustment steps for more accurate gripping of the workpiece with less slippage than other designs
- Self-locking on pipes and nuts: no slipping on the workpiece, with low hand force required
- Gripping surfaces with teeth hardened to HRC61 for low wear and reliable gripping
- Box-joint design; high stability because of double guide
- Pinch guard that prevents operators' fingers from being pinched

Heavy Duty Combination Pliers

- Secure hold by aggressive serrated jaws and 4-point gripping hole
- Slim shape for better access to wires in tight spaces
- Powerful gripping jaw, yet 20% lighter weight than other designs





Ordering Information

ISLS3	Insulated Slotted Screwdriver 3/32x3 in, 2.5 mm x 75 mm, 1000V
ISLS5	Insulated Slotted Screwdriver 5/32x4 in, 4 mm x 100 mm, 1000V
ISLS8	Insulated Slotted Screwdriver 1/4x5 in, 6 mm x 125 mm, 1000V
IPHS1	Insulated Phillips Screwdriver #1, 3 in, 75 mm, 1000V
IPHS2	Insulated Phillips Screwdriver #2, 4 in, 100 mm, 1000V
ISQS1	Insulated Squared Screwdriver #1, 4 in, 100 mm, 1000V
ISQS2	Insulated Squared Screwdriver #2, 5 in, 125 mm, 1000V
INLP8	Insulated Long Nose /w Side Cutter, 8 in, 200mm, 1000V
INDC8	Insulated High Leverage Diagonal Cutter, 8 in, 200mm, 1000V
INPP10	Insulated Pump Plier Fast adjustable, 10 in, 250 mm, 1000V
INCP8	Insulated Linesman Combination Plier, 8 in,

Contact your local distributor for price and availability.

200 mm, 1000

Insulated Hand Tools



Fluke Insulated Hand Tools Kits









Hand Tool Kits	IKSC7	IKPL3	IKST7	IKPK7
Description	Insulated 7 Unit Screwdriver Kit, 1000 V	Insulated 3 Unit Pliers Kit, 1000 V	Insulated Hand Tools Starter Kit, 1000 V	Fluke Pack30 Professional Tool Backpack + Insulated Hand Tools Starter Kit
Included	3 Slotted Tips, 2 Phillips Tips, 2 Square Drive Tips	Long Noise Pliers, Heavy Duty Diagonal Cutter, Heavy Duty Combo Pliers, Roll-up Tool Pouch	3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Linesman Combination Plier, Roll-up Tool Pouch	Fluke Pack30 Professional Tool Backpack, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch
Warranty	Lifetime	Lifetime	Lifetime	1-year*

*Hand tools in kits all carry the limited lifetime warranty.









Ordering Information

IKSC7

IKPL3

Insulated 7 Unit

Screwdriver Kit, 1000 V Insulated 3 Unit Pliers Kit, 1000 V

Tools + Hand Tool Kits	IBT6K	IB875K	IB117K	IB179K	IB376K
Description	Fluke T6 Electrical Tester + Insulated Hand Tools Starter Kit	Fluke 87V Industrial Multimeter + Insulated Hand Tools Starter Kit	Fluke 117 Electrician's Multimeter + Insulated Hand Tools Starter Kit	Fluke 179 True-RMS Digital Multimeter + Insulated Hand Tools Starter Kit	Fluke 376FC True-RMS Clamp Meter + Insulated Hand Tools Starter Kit
Included	Fluke T6 Electrical Tester, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch	Fluke 87V Industrial Multimeter, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch	Fluke 117 Electrician's Multimeter, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch	Fluke 179 True-RMS Digital Multimeter, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch	Fluke 376FC True-RMS Clamp Meter, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch
Warranty	2-year*	Lifetime	3-year*	Lifetime	Lifetime

*Hand tools in kits all carry the limited lifetime warranty.







Accessories	RUP8	Pack30	TB25
Description	Roll-up Tool Pouch. Holds up to 3 pliers and 5 screwdrivers, rolls shut, closes with hook and loop fasteners	Over 30 pockets in six main storage compartments. Rugged, waterproof base protects your tools.	Tool bucket with a 5.2-gallon capacity, hard exterior shell, and plastic waterproof base to protect tools.
Included	Tools not included	Tools not included	Tools not included
Warranty	1-year	1-year (extendable)	1-year

*Insulated Hand Tool Lifetime Limited Warranty

Each Fluke Insulated Hand Tool will be free from defects in material and workmanship for its lifetime. As used herein, "lifetime" is defined as seven years after Fluke discontinues manufacturing the product, but the warranty period shall be at least fifteen years from the date of purchase. This warranty does not cover damage from neglect, misuse, contamination, alteration, accident or ahormal conditions of operation or handling, damage or normal wear and tear of mechanical components. This warranty covers the original purchaser only and is not transferable.

To establish original ownership and prove date of purchase, please complete and return the registration card accompanying the product, or register your product on fluke.com/registration. Fluke will, at its option, repair at no charge, replace or refund the purchase price of a defective product purchased through a Fluke authorized sales outlet and at the applicable international price. Fluke reserves the right to charge for importation costs of repair/replacement parts if the product purchased in one country is sent for repair elsewhere.

If the product is defective, contact the authorized seller you purchased the tool from for immediate replacement or your nearest Fluke authorized service center to obtain return authorization information, then send the product to that service center, with a description of the difficulty, postage and insurance prepaid (FOB Destination). Fluke assumes no risk for damage in transit. Fluke will pay return transportation for product repaired or replaced in-warranty. Before making any non-warranty repair, Fluke will estimate cost and obtain authorization, then invoice you for repair and return transportation.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCOENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE OR THEORY. AUTHORIZED RESELLERS ARE NOT AUTHORIZED TO EXTEND ANY DIFFERENT WARRANTY ON FLUKE'S BEHALF.

146	Insulated Hand Tools

IKST7	Insulated Hand Tools Starter Kit, 1000 V					
IKPK7	Pack30 Professional Tool Backpack + Insulated Hand Tools Starter Kit					
IBT6K	Fluke T6 Electrical Tester + Insulated Hand Tools Starter Kit					
IB875K	Fluke 87V Industrial Multimeter + Insulated Hand Tools Starter Kit					
IB117K	Fluke 117 Electrician's Multimeter + Insulated Hand Tools Starter Kit					
IB179K	Fluke 179 True-RMS Digital Multimeter + Insulated Hand Tools Starter Kit					
IB376K	Fluke 376FC True-RMS Clamp Meter + Insulated Hand Tools Starter Kit					
RUP8	Roll-up Tool Pouch					
РАСКЗО	Professional Tool Backpack					
TB25	Fluke TB25 Tool Bucket Organizer Bag, 5.2 gal					
Contact your local distributor for price and availability.						

Accessories

ALW

Accessories increase the functionality of your test tool and increase your safety and proficiency. Your digital multimeter can become a thermometer, clamp meter, or even a pressure gauge. With Fluke genuine accessories, you can broaden the ability to take meter measurements in different environments to meet your industrial, electrical, and electronic needs.

FLUKE

IR CAMERA ACCESSORIES

Battery and Charger Compatibility

Prevent the unexpected loss of power with our rugged and rechargeable battery packs and keep your Fluke Infrared Camera charged while you're on the road with our car chargers.

Model Number	TiS20+/TiS20+MAX, 55+, 60+, 75+	TiS55+, TiS60+, TiS75+	Ti401 Pro, Ti480 Pro	TiX580
TI-SBC3B Battery Charging Base	•	•	•	•
TI-SBP3 Rechargeable Lithium-ion Smart Battery Pack	•	•	•	
TI-SBP4 Rechargeable Lithium-ion Smart Battery Pack				•
TI-CAR CHARGER	•	•	•	•
FLK-XBattery				

Sun Visor Compatibility

Instantly reduce LCD screen glare and reflections in bright sunlight or other areas where ambient lighting conditions are bright with our durable, heavy-duty plastic visor. It can be used inside or outside, and easily clips onto to your Fluke Infrared Camera without the need for any additional hardware.

Model Number	Ti401 Pro, Ti480 Pro
TI-VISOR3	•

Tripod Base Compatibility

Lightweight, one-piece mounting accessory quickly and easily attaches to your Fluke Infrared Camera and allows you to mount to a standard tripod or monopod for those applications or situations that require a more stable or semi-fixed platform.

Model Number Ti200/ Ti300/Ti300+/Ti400/Ti401/Ti45				
TI-TRIPOD3	•			

TEST LEADS. PROBES AND CLIPS

Test Leads, Probes and Clips Compatibility

Model Number	TL175	TL26A	TL40	TL71	TL75	TL76	TL221	TL222	TL224	TL910
Test Leads										
110/114/115/ 116/117	•	•	٠	•	•	•	•	•	•	•
175/177/179	•	•	•	•	•	•	•	•	•	•
87V	•	•	•	•	•	•	•	•	•	•
287/289	•	•	•	•	•	•	•	•	•	•
8845A/8846A	•	•	•	•	•	•	•	•	•	•
120 Series	•	•	•	•	•	•	•	•	•	•
190 Series	•	•	•	•	•	•	•	•	•	•
323/324/325	•	•	•	•	•	•	•	•	•	•
370 Series, 381	•	•	•	•	•	•	•	•	•	•
705/707	•	•	٠	•	•	•	•	•	•	•
712	•	•	•	•	•	•	•	•	•	•
715	•	•	٠	•	•	•	•	•	•	•
716/717	•	•	•	•	•	•	•	•	•	•
718	•	•	•	•	•	•	•	•	•	•
725/726	•	•	•	•	•	•	•	•	•	•
787B/789	•	•	•	•	•	•	•	•	•	•
1577/1587 FC	•	•	•	•	•	•	•	•	•	•
Clips and Prob	es									
AC175				•	•	•				
AC87							•	•	•	
AC89							•	•	•	
AC220							•	•	•	
AC280							•	•	•	
AC238A							•	•	•	
AC285							•	•	•	
AC288							•	•	•	
FTP-1 TLK290							•	•	•	
TLK290							•	•	•	
TP1							•	•	•	
TP2							•	•	•	
TP4							•	•	•	
TP38							•	•	•	
TP74							•	•	•	
TP80							•	•	•	
TP175							•	•	•	
TP220							•	•	•	
TP912										•
TP920				•	•					
T5 Starter Kit						ble with T5/1	 [+/T+Pro/330) Series Clam	p Meters)	
TP165X							507/1577/15			

Test Leads, Probes and Clips

Test Lead/Probe-in-One



TL175 TwistGuard™ Test Leads

- Probes meet IEC 61010-031 requirements for safety
- Patented extendable tip guard meets CAT III 1000 V, CAT IV 600 V requirements while providing the flexibility you need for CAT II measurements
- Probes always show correct category rating for tip length being used



TL75 Hard Point™ Test Lead Set

One pair (red, black) comfort grip probes with PVC-insulated, right-angle shrouded 4 mm banana plugs.

• Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TL71 Premium Test Lead Set

One pair (red, black) comfort grip probes with flexible silicone insulated, rightangle test leads.

- Heat and cold resistant
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TL76 2mm/4mm Test Lead Set

One pair (red, black) silicone test leads with right angle shrouded 4 mm banana plugs.

- Removable lantern tip for easy access to terminal blocks, 2 mm diameter
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TL40 Retractable Tip Test Lead Set

One pair (red, black) flexible silicone insulated test leads with sharp needle point tips adjustable to desired length from 0 to 76 mm.

- Extra hard probe tips to provide long service life
- Safety rating: CAT II 600 V, 3 A rating



TL26A 60 in 5-Way Test Lead Set

One pair (red, black) silicone-insulated leads with five different ways to connect.

- U-shaped nose for blade-shaped terminals
- Notched jaw for gripping screw heads, bare wire or terminals
- Serrated teeth for gripping threaded or wire-wrapped terminals
- Sharp needle cluster for piercing small gauge (#22-#28 AWG) wires
- Large piercing needle
- Safety rating: 30 V, 10 A



TL910 Electronic Test Probes

One pair (red, black) leads with very small tips to access hard-to-reach electronic test points.

- Includes three sets of spring-loaded gold tips and two sets of stainless steel tips
- Tip length up to 100 mm
- Tip diameter: 1 mm
- Safety rating: CAT II 1000 V, 3 A



TP912 Replacement Tips for TL910

Five sets of spring-loaded, tips to refurbish TL910 Electronic Test Probes.

- Very small 1mm tips to access hardto-reach electronic test pointsProbe tip length up to 100 mm
- Three sets of gold-plated and two sets of stainless steel tips



TP165X Remote Control Probe

Probe with integrated test button simplifies measurement when accessing hard-to-reach points.

- Probe designed for 1500 Series Insulation and 1650/1660 Series Installation Testers
- Tip length up to 18.66 mm
- Tip diameter: 1 mm
- Safety rating: CAT II 1000 V, (CAT III 1000 V, CAT IV 600 V with protective cap), 10 A



TL1500DC 1500 V DC Test Lead Set

Test leads specially developed for solar, wind and battery applications. Rugged design for rough outdoor environments.

- Safe and accurate voltage measurements up to 1500 V DC
- Safety rating: CAT III 1500 V, CAT IV 600 V

Probe-in-one clips



AC288 SureGrip™ Terminal Block Probe

One pair (red, black) of probes features a retractable probe tip for connections to clamp and screw type terminal blocks.

- Designed for increased safety, while providing the flexibility to reach deep connection points
- 1mm diameter probe tip extends out to 8.4 mm length
- Recommended for use with the TL224, TL222, TL221 test leads
- Safety rating: CAT III 1000 V, CAT IV 600 V, 1 A



AC175 Alligator Clip Set

One pair (red, black) slide-on alligator clips.

- 8mm clip opening
- Slide-on alligator clips are compatible with TL71, TL75, TL175 and TP175 test probes
- Safety rating: CAT IV 600 V, CAT III 1000 V, 10 A



TP920 Test Probe Adapter Set

Three pairs (red, black) push-on adapters.

- Includes IC test adapters, extended probe tips, and medium alligator clips
- Maximum opening 7.6 mm
- Safety rating: IC test adapter CAT II 300 V, extended probe tips CAT II 300 V, medium alligator clips CAT II 1000 V

Test Leads, Probes and Clips

Modular Test Leads



TL221 SureGrip™ Test Lead Extensions Set

One pair (red, black) silicone-insulated leads with safety-shrouded, 4 mm banana plugs.

- Couplers have female connectors on both ends
- Safety rating: CAT IV 600 V, CAT III 1000 V, 10 A



TL222 SureGrip™ Silicone Insulated Test Leads

One pair (red, black) silicone-insulated test leads (red, black) with safety-shrouded,

4 mm banana plugs.

Right angle connectors on both ends



TL224 SureGrip™ Insulated Test Leads

One pair (red, black) silicone-insulated test leads with safety-shrouded 4 mm banana plugs.

- Right angle connector on one end and straight connector on the other
- Safety rating: CAT IV 600 V, CAT III 1000 V, 10 A



TL27 Heavy-duty Test Lead Set

One pair (red, black) rugged, EPDM-insulated test leads with safetyshrouded 4 mm banana plugs.

- Straight connectors on both ends
- Safety rating: CAT III 1000 V, 10 A

Test Lead Holder



H900 Test Lead Holder

Heavy-duty holder for conveniently storing test lead wires.

- Mounting holes for securing to wall or other surfaces
- For test lead wires up to 8mm in diameter
- Overall dimensions (LxWxH): 279 mm × 89 mm × 32 mm

Modular Clips



AC285/-FTP SureGrip™ Alligator Clips

One pair (red, black) large alligator clips with insulated, nickel-plated steel jaws.

- Multi-purpose tooth pattern grips from fine gauge wire to a 20 mm bolt
- Safety rating: CAT IV 600 V, CAT III 1000 V, 10 A
- AC285-FTP includes AC285 and adapters for FTP-1 or FTPL-1 Fused Test Probes



AC220 SureGrip™ Alligator Clips

One pair (red, black) of small, insulated, nickel-plated jaws.

- Blunt tip grabs round screw heads up to 9.5 mm
- Safety rating: CAT IV 600 V, CAT III 1000 V, 10 A



AC280 SureGrip™ Hook Clips

One pair (red, black) nickel-plated hook-style clips.

- Hook opening 6.4 mm at front
- Base opening of 0.2 mm
- Safety rating: CAT IV 600 V, CAT III 1000 V, 3 A



AC283A SureGrip[™] Pincer Clips

One pair (red, black) nickel-plated pincers open to 5 mm.

- 11.4 cm flexible insulated shaft
- Safety rating: CAT II 1000 V, 1 A



AC89 Heavy Duty Insulation Piercing Test Clip

Ideal probe for establishing accurate contact through insulation.

- Pierces 0.25 mm to 1.5 mm insulated wire
- Safety rating: 1000 V, 10 A



AC87 Heavy Duty Bus Bar Clip Set

One pair (red, black) flat, right angle clips designed for connecting to bus bars.

- Adjustable collar provides two ranges of jaw openings up to 30 mm
- Safety rating: CAT III 600 V, 5 A

Modular Test Probes



TP175 TwistGuard™ Test Probes

- Modular test probes of the popular TL175 Test Leads
- Patented extendable tip guard meets CAT III 1000 V, CAT IV 600 V requirements while providing the flexibility you need for CAT II measurements
- 2 mm diameter stainless steel probe tips



TP220 SureGrip[™] Industrial Test Probes

One pair (red, black) industrial test probes with stainless steel tip.

- Sharp, 12 mm tips
- Safety rating: CAT II 1000 V (CAT III 1000 V, CAT IV 600 V with protective cap), 10 A



TP1 Slim Reach™ Test Probes

One pair (red, black) slender probes with flat stainless steel blade to hold securely in blade-type electrical wall sockets.

- Tip length up to 14.7 mm
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TP2 Slim Reach™ Test Probes

One pair (red, black) slender stainless steel probes for accessing closelyspaced or recessed terminals such as in electronic environments.

- 2 mm diameter tip
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TP4 Slim Reach™ Test Probes

One pair (red, black) slender stainless steel probes for accessing closelyspaced or recessed electrical terminals.

- 4 mm diameter probe tip designed to fit securely into IEC (C13 and C14) electrical wall outlets
- Safety rating: CAT II 1000 V, 10 A



Test Leads, Probes and Clips



TP80 Electronic Test Probes

One pair (red, black) electronics test probes.

- IC-insulated cap prevents shortening of IC legs for probing high density components or boards
- Tip length up to 3.9 mm
- Tip diameter: 1 mm
- Safety rating: CAT III 1000 V, 1 A



TP74 Lantern Tip Test Probes

One pair (red, black) featuring nickelplated brass ends.

- Banana-style 4 mm spring contacts
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TP38 Slim Reach™ Test Probes

One pair (red, black) slender stainless steel probes for accessing closelyspaced or recessed terminals.

- Tip length: 24 mm which includes the insulated part of the tip
- Probe tip insulated to 4 mm from the end
- Safety rating: CAT IV 600 V, CAT III 1000 V, 10 A

Patch Cords



TL932 Patch Cords (90 cm)

One pair (red, black) multi-stacking banana plug patch cords, 90 cm long.

- Nickel-plated, 4 mm banana plugs
- 90 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 15 A



TL930 Patch Cords (60 cm)

One pair (red, black) multi-stacking banana plug patch cords, 61 cm long.

- Nickel-plated, 4 mm banana plugs
- 61 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 15 A



TL935 Patch Cords (60 cm, 90 cm, 120 cm)

Three sets (red and black pairs) of multi-stacking banana plug patch cords in different lengths.

- Nickel-plated, 4 mm banana plugs
- 60 cm, 90 cm, and 120 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 15 A



TL940 Mini-Hook Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and mini-hooks.

- Mini-hooks attach to component leads up to 1.5 mm diameter
- 90 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 3 A



TL950 Mini-Pincer Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and mini-pincers.

- Mini-pincers open to 2.3 mm
- 90 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 3 A



TL960 Micro-Hook Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and micro-hooks.

- Micro-hooks attach to component leads up to 1 mm diameter
- 90 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 3 A



TL970 Hook and Pincer Set

- TL940 Mini-Hook Test Lead Set
- TL950 Mini-Pincer Test Lead Set
- TL960 Micro-Hook Test Lead Set



FTP-1 / FTPL-1 SureGrip[™] Fused **Test Probes**

- · Built-in fuses for added protection
- 2 mm threaded probe tips include removable 4 mm lantern-style spring contacts
- FTPL-1 comes with a set of TL224 SureGrip[™] Insulated Test Leads
- Safety rating: CAT II 1000 V (CAT III 1000 V, CAT IV 600 V with protective cap), 10 A



TL238 SureGrip™ Test Lead Set for **High Energy Environments**

This kit is specially designed for high energy environments. Three-piece kit:

- TP238 SureGrip™ Insulated Test Probe Set
- TP280 SureGrip™ Test Probe Extender
- TL224 SureGrip™ Insulated Test
- Leads · Safety rating:
- TP238 and TL224: CAT IV 600 V, CAT III 1000 V, 10 A
- TP280: CAT III 1000 V, 10 A



TLK290 Flexible Socket Probe Set

Set includes three flexible socket probes and a large alligator clip for use with 4mm shrouded test leads.

- Test probes are for use on motor and three-phase sockets
- Probes have flexible test points that fit securely between 4 mm and 8 mm sockets
- Safety rating: CAT II 1000 V, 8 A



TLK291 Fused Test Probe Set

One pair (red, black) fused test probes. Probes fit on modular leads or on fixedlead test tools.

- · Each probe contains a 500 mA/1000 V/IR:50 kA fuse
- Safety rating: CAT IV 600 V, CAT III 1000 V

TEST LEAD SETS AND KITS

Model number	TL27	TL80A	TL81A	TL220	TL223	TL225	TL238	TLK- 220	TLK- 225	TLK287	TLK289	TLS430
Test Lead Sets and Kits												
110/114/115/116/117	•	•	•	•	•	•	•	•	•	•	•	
27 II	•	•	•	•	•	•	•	•	•	•	•	
175/177	•	•	•	•	•	•	•	•	•	•	•	6
179	•	•	•	•	•	•	•	•	•	•	•	(Compatible with 430 Series II Power Quality Analyzers)
87V	•	•	•	•	•	•	•	•	•	•	•	patil
287/289	•	•	•	•	•	•	•	•	•	•	•	ole v
8845A/8846A	•	•	•	•	•	•	•	•	•	•	•	vith
120/B Series	•	•	•	•	•	•	•	•	•	•	•	430
190/-II Series	•	•	•	•	•	•	•	•	•	•	•	Ser
323/324/325	•	•	•	•	•	•	•	•	•	•	•	ies I
370 Series, 381	•	•	•	•	•	•	•	•	•	•	•	I Pov
705/707	•	•	•	•	•	•	•	•	•	•	•	wer
712	•	•	•	•	•	•	•	•	•	•	•	Qua
715	•	•	•	•	•	•	•	•	•	•	•	lity .
717	•	•	•	•	•	•	•	•	•	•	•	Anal
718	•	•	•	•	•	•	•	•	•	•	•	lyzei
725/726	•	•	•	•	•	•	•	•	•	•	•	(S)
787B/789	•	•	•	•	•	•	•	•	•	•	•	
1577/1587 FC	•	•	•	•	•	•	•	•	•	•	•	
Clips and Probes	1	1	1		1				1			
AC175		•	•									
AC87	•		•	•	•	•	•	•	•	•	•	
AC89	•		•	•	•	•	•	•	•	•	•	
AC220	•		•	•	•	•	•	•	•	•	•	
AC280	•		•	•	•	•	•	•	•	•	•	
AC238A	•		•	•	•	•	•	•	•	•	•	
AC285	•		•	•	•	•	•	•	•	•	•	
FTP-1	•		•	•	•	•	•	•	•	•	•	
TLK290			•	•	•	•	•	•	•	•	•	
TLK291			•	•	•	•	•	•	•	•	•	
TP1	•		•	•		•	•	•	•	•	•	
TP2	•		•	•	•	•	•	•	•	•	•	
TP4	•		•	•	•	•	•	•	•	•	•	
TP38	•		•	•	•	•	•	•	•	•	•	
TP74	•		•	•	•	•	•	•	•	•	•	
TP80	•		•	•	•	•	•	•	•	•	•	
TP175	•		•	•	•	•	•	•	•	•	•	
TP220	•		•	•	•	•	•	•	•	•	•	
TP912	•		-	•	•			•	•	•	•	
TP912 TP920		•	•									
T5 Starter Kit		•		nomnatikl	a with TE	 'ד /ד י ד~~	1220 000	 es Clamp I	(otorc)			
TP165X								c/1650/16				
11100A			(com	pauble W	101 1 303/	1307/157	1/1587 ft	/1030/16	ou series)			

Test Lead Sets and Kits



TLK289 Industrial Master Test Lead Set

Designed for electrical and electronics testing including clips and probes for dependable contact with a variety of test points. Includes:

- One pair each (red, black): AC285 Large Jaw Alligator Clips AC220 Plunger Style Alligator Clips AC280 SureGrip[™] Hook Clips TP220 SureGrip[™] Industrial Test Probes
- TPAK ToolPak[™]
- 80BK-A Integrated DMM Temperature Probe
- C116 Soft Carrying Case



TLK287 Electronics Master Test Lead Set

The perfect test lead set for electronics test and design. Includes 11 items:

- Precision electronic probes with multiple spring-loaded sharp tips to maximize contact with SMD test points
- Micro-grabbers and leads to enable fine SMD testing
- Mini-alligator clips, grabbers, and probes
- Modular test leads and lead-probe combinations
- Couplers for long lead applications



TL81A Deluxe Electronic Test Lead Kit

This 11-item kit includes pouch and two each (red, black) of:

- Test leads with a safety-shrouded, right angle banana connector on one end and a stainless steel test probe on the other. Rated up to 10 A.
- Insulated alligator clips. Rated up to 10 A
- Insulated probe tip extenders. Rated up to 3 A
- Modular test probes with banana jack connector. Rated up to 10 A
- Modular hook-style clip test leads. Rated up to 5 A
- Modular pinch-style clip test leads. Rated up to 5 A
- Modular alligator clips. Rated up to 10 A
- Slide-on IC probe tip adapters (rated up to 3 A) and test lead couplers
- Bare spade lug. Rated up to 10 A



TL220 SureGrip™ Industrial Test Lead Set

Handy all-in-one set that includes essential test items for industrial environments. Three-item set includes:

- AC220 Plunger Style Alligator Clips
- TP220 SureGrip[™] Industrial Test Probes CAT II 1000 V, 10 A without protective cap
- TL224 SureGrip[™] Silicone Insulated Test Leads
- Safety rating: All CAT IV 600 V, CAT III 1000 V



TL80A Basic Electronic Test Lead Kit

The fundamental accessories for testing are included in this four-item kit:

- Medium alligator clip CAT II 1000 V, 10 A
- Extended probe tips
- CAT II 300 V, 3 A
- TL71 Premium Test Lead Set
- C75 Accessory Case



TLK-225 SureGrip™ Master Accessory Set

Set includes all the SureGrip[™] leads, clips, and probes in a handy roll-up pouch. This 13-item set includes:

- AC220 Plunger Style Alligator Clips
- AC280 SureGrip[™] Hook Clips
- AC238A SureGrip[™] Pincer Clips
- AC285 Large Jaw Alligator Clips
- TP175 TwistGuard[™] Test Probes
- TL224 SureGrip[™] Insulated Test Leads
- Six-pocket Storage Pouch
- Safety rating: all CAT IV 600 V, CAT III 1000 V



TL223 SureGrip™ Electrical Test Lead Set

All-in-one set includes three test lead accessories:

- AC220 Plunger Style Alligator Clips
- TP1 Slim Reach Test Probes
- TL224 SureGrip[™] Insulated Test Leads
- Safety rating: ĈAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TLK-220 SureGrip™ Industrial Test Lead Kit

Special-value SureGrip™ five-piece kit for industrial applications, in a roomy carrying case. Kit includes:

- AC220 Plunger Style Alligator Clips
- AC285 Large Jaw Alligator Clips
- TP220 SureGrip™ Industrial Test Probes
- TL224 SureGrip[™] Insulated Test Leads
- C116 Zippered Vinyl Case with
 Moveable Divider
- Safety rating: CAT II 1000 V (CAT III 1000 V, CAT IV 600 V with protective cap), 10 A



T5 Starter Kit

Special-value three-piece kit for the electrical professional with a Fluke T5 Voltage, Continuity and Current Tester. Kit includes:

- TP238 Insulated Test Probes
- AC285 Large Jaw Alligator Clips
- C33 Soft Carrying Case
- Safety rating: all CAT IV 600 V, CAT III 1000 V



TLS430 Test Leads and Alligator Clips

Test lead replacement set for the Fluke 430 Series II Three-Phase Power Quality Analyzers.

- Set includes five of each (4 black, 1 green) test leads and alligator clips
- Safety rating: CAT IV 600 V, CAT III 1000 V



TL225 SureGrip[™] Stray Voltage Adapter Test Lead Kit

The Fluke TL225 adds low input impedance to a multimeter, desensitizing it to low energy and eliminating ghost or stray voltages. Four-piece kit includes:

- SV225 Stray Voltage Adapter
- TL224 SureGrip[™] Insulated Test Leads
- TP238 Insulated Test Probes
- C75 Accessory Case
- Safety rating: All CAT IV 600 V, CAT III 1000 V, 10 A

Accessories

TEMPERATURE ACCESSORIES

	Bead		HVAC	Immersion	Surface	Air	Piercing	General Purpose	Industrial Surface	Pipe Clamp
	80BK-A	80PK-1 80PJ-1	80 PK-1 1	80PK-22	80PK-3A	80 PK-2 4	80PK-25 80PT-25	80PK-26	80PK-27	80PK-8
Lowest Temperature	-40 (-40)° C)° F)	-30° C (-22° F)	-40° C (-40° F)	0° C (32° F)	-40° C (-40° F)	Type K: -40° C (-40° F) Type T: -196° C (-321 "F)	-40° C (-40° F)	-127° C (-196° F)	-29° C (-20° F)
Highest Temperature		0° C 0° F)	105° C (221 "F)	1090° C (1994 "F)	260° C (500°F)	816° C 1500 "F)	350° C (662 "F)	816° C (1500"F)	600° C (1112 "F)	149° C (300 "F)
Probe Material	Type K v teflon in	vire with sulation	Velcro	Inconel 600	Type K sensor with teflon body	Inconel	316 Stainless Steel	304 Stainless Steel	304 Stainless Steel	Type K sensor with PVC body
Probe Length	1 m (3.3 ft) lead wire		48.26 cm (19 in) Velcro cuff	21.27 cm (8.375 in)	9.52 cm (3.75 in)	21.59 cm (8.5 in)	10.16 cm (4 in)	21.57 cm (8.5 in)	20.32 cm (8 in)	for pipes from 6.4 mm (0.25 in) to 34.9 mm (1.375 in)
Cable Length		1 m	(3.3 ft)		1.3 m (4 ft)	1 m (3.3 ft)				
Connection	Standard banana jack	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug
SureGrip Handle	No	No	No	Yes	No	Yes	Yes	Yes	Yes	No
Key Feature	Ideal for initial troubleshooting. Can be secured in place with a magnet.		Velcro probe allows hands-free temperature measurement.	For use in liquids or in gels.	Exposed junction for direct contact with flat or slightly convex surfaces.	Perforated baffle for air and non- caustic gas measurements.	Probe material safe for use in foods. Sharp tip pierces solid surfaces.	Use for general purpose air or surface measurements.	Low conductivity stainless steel minimizes thermal shunting. Extra rugged.	Clamps securely to pipe. Measurements are repeatable to 0.56° C (1° F)
Thermocouple Types	К	К, Ј	K	K	K	K	К, Т	K	K	K

Temperature C	Temperature Compatibility												
Model Number	80AK-A	80BK-A	All 80PK Probes	80PJ-1/ 80PJ-9	80PT- 25	80TK	80T- 150UA	80PJ- EXT	80PK- EXT	80PT- EXT	80CK-M	80CJ-M	80PR- 60
110/114/115/ 116/117	116	116	*										
27 II						٠	•		*		*		
175/177			*			•	•		*		*		
179	•	•											
87V	•	•											
287/289	•	•					•						
8845/8846			*			•	•		*		*		
43B			*			•	•		*		*		
120/B Series			*			•	•		*		*		
190/-II Series			*			•	•		*		*		
51/52/53/54 II			•	•	•			•	•	•	•	•	
63													66/68
714			•	•	•			•	•	•	•	•	
715			*			٠	•		*		*		
725/726			•	•	٠			•	•	•	•	•	
787B/789			*			٠	•		*		*		
902	•	•	•						•				
1587 FC	•	•											
1577	•												
561			•										

• Compatible; ★ Requires 80TK; ▲ Requires 80AK-A; ♦116 only: requires 80AK-A

Temperature Accessories



80PJ-1 or 80PK-1 Bead Probe

Type J or K thermocouple probe for general purpose applications. Ideal for troubleshooting.

- 1 mm probe with Teflon[™] insulation
- Measurement range: -40° C to 260° C (-40° F to 500° F)



80PJ-9 or 80PK-9 General Purpose Probe

Type J or K thermocouple probe for air and non-caustic gases. The sharp tip pierces pipe insulation and the flat surface makes good contact.

- 15.25 cm stainless steel probe
- Measurement range: -40° C to 260° C (-40° F to 500° F)

80PK-26 SureGrip™ Tapered Probe

Type K thermocouple probe with tapered tip for speedy air, surface, non-caustic gas, and liquid measurements.

- 1 m lead
- 203 mm stainless steel probe
- Measurement range: -40° C to 816° C (-40° F to 1500° F)



80PK-3A Surface Probe

Type K thermocouple with exposed junction for flat or slightly convex surfaces such as plates and rollers.

- 9.52 cm probe with Teflon[™] insulation
 Measurement range: 0° C to 260° C
 - (-40° F to 500° F)



80PK-27 SureGrip[™] Industrial Surface Temperature Probe

Type K thermocouple probe for surfaces in rugged environments.

- 1 m lead
- 20.32 cm stainless steel probe
- Measurement range: -127° C to 600° C (-196° F to 1112° F)



80PK-25 or 80PT-25 SureGrip™ Piercing Probe

Type K or T thermocouple suitable for food industry, liquids, and gels. Sharp tip pierces solid surfaces.

- 1 m lead
- 10.16 cm stainless steel probe
- Measurement range:
 - Type K: -40° C to 350° C (-40° F to 662° F)
 - Type T: -196° C to 350° C (-321° F to 932° F)



80PK-24 SureGrip™ Air Probe

Type K thermocouple probe for air and non-caustic gas measurements.

- 1 m lead
- 21.59 cm (8.5 in) Inconel[™] probe
- Bead protected by perforated baffle
- Measurement range: -40° C to 816° C (-40° F to 1500° F)



80PK-22 SureGrip™ Immersion Probe

Type K thermocouple probe for use in liquids and gels.

- 1 m lead
- 21.27 cm (8.375 in) Inconel[™] probe
- Measurement range: -40° C to 1090° C (-40° F to 1994° F)



80PK-8 and 80PK-10 Pipe Clamp Probe

Type K thermocouple clamps securely to pipes for fast temperature and superheat measurements.

- Durable ribbon sensor
- 80PK-8 for pipe diameters 6.4 mm to 34.9 mm
- 80PK-10 for pipe diameters 32 mm to 64 mm
- Measurements are repeatable to $0.56^\circ\,\mathrm{C}$
- Measurement range: -29° C to 149° C (-20° F to 300° F)



80PK-11 Type-K Velcro™ Thermocouple Probe

Type K Velcro cuff for use with any temperature-measuring instrument that accepts type K thermocouples.

- Use multiples and leave in place for route-based routine maintenance
- 48 cm Velcro™ cuff
- Measurement range: -30° C to 105° C (-22° F to 221° F)



80PK-18 Pipe Clamp Temperature Probe Kit

- Includes both 80PK-8 and 80PK-10 Type K clamps
- Provides full range of pipe measurement sizes
 - · Includes soft carrying case



80PR-60 RTD Temperature Probe

This probe expands the utility of an RTD non-contact infrared thermometer by simultaneously taking contact and noncontact temperature readings.

- For use with the Fluke 66 and 68 Infrared Thermometers
- 90 mm platinum 1 k Ω probe
- 3.5 mm phono type jack
- Measurement range: -40° C to 260° C (-40° F to 500° F)



80AK-A Thermocouple Adapter

Adapts type K thermocouple mini-connector to dual shrouded 4 mm banana plug inputs.

- Measurement range and accuracy: probe dependent
- Suitable for low voltage applications (below 30 V AC, 60 V DC)



80BK-A Integrated DMM Temperature Probe

Convenient, integrated type K thermocouple probe with standard shrouded 4 mm banana jack.

- Compatible with Fluke DMM with temperature measurement functions
- Measurement range: -40° C to 260° C (-40° F to 500° F)



80TK Thermocouple Module

This module converts a DMM to a thermometer and is designed for use with type K thermocouples in low voltage applications.

- Voltage range: below 24 V AC, 60 V DC
- Measurement range: -50° C to 1000° C (-58° F to 1,832° F) (probe dependent)



80T-150UA Universal Temperature Probe

Adapts any DMM using shrouded 4 mm banana plugs. This fast, accurate integrated probe is designed for low-voltage applications.

- For air, surface, and non-corrosive applications
- Voltage range: below 24 V AC, 60 V DC
- 15.7 cm probe tip
- Measurement range: -50° C to 150° C (-58° F to 302° F)
- Output: switchable, from 1 mV/° C to 1 mV/°F

AC CURRENT CLAMPS

AC Current Clamp Specifications

	i200	i200s	i400	i400s	i800	i1000s	i3000s	i2000 Flex	i3000s Flex	i6000s
AC current range	1 Å to 200 Å	1 A to 200 A	1 Å to 400 Å	0.5 A to 400 A	1 A to 800 A	0.2 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A	60 A to 6000 A
Accuracy	3% + 0.5 A 48 Hz to 65 Hz	1% + 0.5 A 48 Hz to 65 Hz	2% + 0.06 A 45 Hz to 400 Hz	0.5 A to 40 A, 2% + 0.01 A, 5 A to 400 A, 2% + 0.04 A, 45 Hz to 400 Hz	0.1 A to 10 A ±3% + 0.01 A, 10 A to 200 A ±2%, 200 A to 800 A ±1%	0.2 to 10 A: 3% + 0.1 A 10 A to 100 A: 2% + 0.5 A 100 A to 1000 A: 1% + 1 A 48 Hz to 65 Hz	1 to 30 A: 2% + 0.1 A 1 to 300 A: 2% + 0.5 A 1 to 3000 A: 2% + 2 A 48 Hz to 65 Hz	±1% of range 45 Hz to 65 Hz Ranges: 20 A, 200 A, 2000 A	±1% of range, 45 Hz to 65 Hz Ranges: 30 A, 300 A, 3000 A	±1% of range 45 Hz to 65 Hz
Bandwidth (-3 dB)	40 Hz to 40 kHz	40 Hz to 40 kHz	5 kHz to 20 kHz	5 Hz to 10 kHz	30 Hz to 10 kHz (typical)	5 Hz to 100 kHz	10 Hz to 100 kHz	10 Hz to 20 kHz	10 Hz to 50 kHz	10 Hz to 50 kHz
Maximum conductor diameter	20 mm	20 mm	32 mm	32 mm	54 mm	54 mm	64 × 100 mm	177 mm	177 mm or 265 mm	193 mm or 289 mm
Maximum conductor size	150 mm ²	150 mm ²	400 mm ²	400 mm ²	2× 240 mm ² or 1× 500 mm ²	2× 240 mm ² or 1× 500 mm ²	64 mm	610 mm circumfer- ence	610 mm or 915 mm circumfer- ence	610 mm or 915 mm
Output levels	1 mA/A	10 mV/A 100 mV/A	1 mA/A	10 mV/A 1 mV/A	1 mA/A	1 mV/A 10 mV/A 100 mV/A	10 mV/A 1 mV/A 0.1 mV/A	100 mV/A 10 mV/A 1 mV/A	100 mV/A 10 mV/A 1 mV/A	50 mV/A 5 mV/A 0.5 mV/A
Output cable	1.5 m shrouded banana plugs	2 m to BNC termination	1.5 m shrouded banana plugs	2.5 m to BNC termination	1.6 m shrouded banana plugs	1.6 m to BNC termination	2.1 m to BNC termination	2 m with double shrouded banana plugs	2.1 m to BNC termination	2 m to BNC, 4 mm plug adapter supplied
Warranty	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year
Safety rating	CAT III 600 V	CAT III 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V

AC Current Clamp Selection Guide

	i200	i200s	i400	i400s	i800	i1000s	i3000s	i2000 Flex1	i3000s Flex
110/114/116		1 A to 200 A		0.6 A to 400 A*		0.6 Å to 1000 Å*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
115/117	60 A to 200 A	1 A to 200 A	60 A to 400 A	0.6 A to 400 A*	60 A to 800 A	0.6 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
233	60 A to 200 A	1 A to 200 A	60 A to 400 A	0.6 A to 400 A*	60 A to 800 A	0.6 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
27 II	2 A to 200 A	1 A to 200 A	2 A to 400 A	1 A to 400 A*	2 A to 800 A	0.1 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
28 II	1.8 A to 200 A	1 A to 200 A	1.8 A to 400 A	1.8 A to 400 A	1.8 A to 800 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A
77 IV		1 A to 200 A		1 A to 400 A*		0.1 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
175/177/179	3 A to 200 A	1 A to 200 A	3 A to 400 A	1 A to 400 A*	3 A to 800 A	0.3 A to 1000 A*	3 A to 3000 A	2 A to 2000 A	3 A to 3000 A
1577/1587 FC	3 A to 200 A	1 A to 200 A	3 A to 400 A	3 A to 400 A*	3 A to 400 A	0.3 A to 1000 A*	3 A to 3000 A	2 A to 2000 A	3 A to 3000 A
83V/88V	2 A to 200 A	1 A to 200 A	2 A to 400 A	1 A to 400 A*	2 A to 800 A	0.1 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
87V	2 A to 200 A	1 A to 200 A	2 A to 400 A	2 A to 400 A*	2 A to 800 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A
287/289	1 A to 200 A	1 A to 200 A	1 A to 400 A	0.5 A to 400 A*	1 A to 800 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
43B		1 A to 200 A		0.35 A to 400 A		0.1 A to 1000 A	1 Å to 3000 Å	2 A to 2000 A	3 A to 3000 A
434/435-II		1 A to 200 A		1.2 Å to 400 Å		0.3 A to 1000 A	1.2 A to 3000 A	i430Flex- TF-II	i430Flex- TF-II
120/B		1 A to 200 A		2.5 A to 400 A		0.25 A to 1000 A	2.5 A to 3000 A	2 A to 2000 A	3 A to 3000 A
190/-II		1 Å to 200 Å		1 A to 400 A		0.1 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
8808A	1 A to 200 A	1 A to 200 A	1 A to 400 A	0.5 A to 400 A*	1 A to 800 A	0.1 A to 1000 A*	1 A to 3000 A	2 A to 2000 A*	3 A to 3000 A*
8845A/8846A	1 A to 200 A	1 A to 200 A	1 A to 400 A	1 A to 400 A*	1 A to 800 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A*	3 A to 3000 A*
787B/789	50 A to 200 A	1 A to 200 A	50 A to 400 A	2 A to 400 A*	50 A to 440 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A

AC Current Clamps



i800 AC Current Clamp

This AC current clamp is designed to extend the current measuring capability of a digital multimeter to 800 A AC. It is compatible with a digital multimeter that accepts shrouded 4 mm banana plugs and has an AC milliamp range.

- Current range: 100 mA to 800 A RMS AC
- Frequency range: 30 Hz to 10 kHz (-3 dB)
- Safety rating: CAT III 600 V



i400 AC Current Clamp

This high-safety current clamp for digital multimeters is a single range 400 A AC clamp that is designed to offer maximum utility in a very compact shape. The division ratio is 1000:1.

- Current range: 1 A to 400 A AC
- Frequency range: 5 kHz to 20 kHz (-3 dB)
- Safety rating: CAT IV 600 V, CAT III 1000 V



i400s AC Current Clamp

This high-safety compact current clamp with BNC output is a companion to a ScopeMeter® or Power Quality Meter to measure up to 400 A AC.

- Current range: 0.5 A to 400 A AC
- Frequency range: 5 Hz to 10 kHz (-3 dB)
- Optional PM9081/001 Dual Banana Plug Male to Female BNC Adapter is available for digital multimeters
- Safety rating: CAT IV 600 V, CAT III 1000 V



i200 AC Current Clamp

This small-sized, single-range current clamp features safety-shrouded 4mm banana plugs. It is compatible with most Digital Multimeters and other current measurement devices that accept shrouded 4 mm banana plugs and have an AC milliamp range.

- Current range: 1 A to 200 A AC
- Frequency range: 40 Hz to 40 kHz
- Safety rating: CAT III 600 V



i200s AC Current Clamp

This small-sized dual-range current clamp offers voltage output using a safety-insulated BNC connector. A dual banana-to-BNC adapter allows the clamp to be connected to meters with banana inputs.

- Current ranges: 0.1 A and 200 A AC switchable
- Frequency range: 40 Hz to 10 kHz
- Safety rating: CAT III 600 V



i2000 Flex AC Current Clamp

This current probe can be used to measure currents up to 2000 A when used in conjunction with multimeters, recorders, or data loggers. The flexible and lightweight measuring head allows quick and easy installation on thick and hard-to-reach areas.

- Current range: 20 A, 200 A, and 2000 A AC switchable
- Frequency range: 10 Hz to 20 kHz
- Safety rating: CAT III 600 V



i1000s AC Current Clamp

This large AC current clamp expands applications in industrial and power environments by connecting directly to an oscilloscope using a reinforced coaxial cable and an insulated BNC connector. It is ideal for measuring distorted current waveform RMS and harmonics.

- Current range: 0.1 A to 1000 A AC
- Frequency range: 10 Hz to 100 kHz
 Accurate displays due to a passive filter that eliminates noise and ring on rapidly-rising di/dt waveforms
- Safety rating: CAT III 600 V



i3000s AC Current Clamp

This AC current clamp is designed as a clamp-on unit for use with Oscilloscopes. It also includes a dual banana to BNC adapter for use with multimeters with 4mm banana input plugs.

- Current range: 1 A to 3000 A
- Frequency range: 10 Hz to 100 kHz
- Safety rating: CAT III 600 V



i3000s Flex-24 or -36 AC Current Clamp

i3000s Flex-24 is available in a convenient four-pack (i3000s Flex 4 Pack)

The flex clamp uses the Rogowski (aircored coil) principle and can be used to measure three ranges of currents up to 3000 A when used in conjunction with oscilloscopes, recorders or data loggers. The flexible and lightweight measuring head allows quick and easy installation in hard-to-reach areas without batteries or an external power source. This clamp fits around large conductors and is available in 610 mm and 914 mm lengths.

- Current range: 30 A, 300 A, and 3000 A switchable
- Frequency range: 10 Hz to 50 kHz
- Safety rating: CAT III 600 V



i5s AC Current Clamp

Also available in a convenient three-pack (i5sPQ3)

This compact 5 A AC clamp, specially configured to provide low-current accuracy while taking measurements on secondary current transformers, expands the use of Fluke 430 Series Three-Phase Power Quality Analyzers.

- Current range: 10 mA to 5 A
- Frequency range: 40 Hz to 5 kHzSafety rating: CAT III 600 V (for
- insulated conductors only)



i6000s Flex-24 or -36 AC Current Clamp

This AC current clamp with itsflexible and lightweight measuring head allows quick and easy installation in hardto-reach areas without batteries or an external power source. This clamp fits around large conductors and is available in both 610 mm and 914 mm lengths.

- Current range: 60 A, 600 A, and 6000 A switchable
- Frequency range: 10 Hz to 50 kHz (-3 dB)
- Safety rating: CAT III 600 V

Accessories

AC/DC CURRENT CLAMPS

AC/DC Current Clamp Specifications

	80i-110s	i410	i1010	i30	i30s	i310s
DC range	0.1 A to 100 A	1 A to 400 A	1 A to 1000 A	30 mA to 30 A	30 mA to 30 A	0.1 A to 450 A
AC range	0.1 A to 70 A	1 A to 400 A	1 A to 600 A	30 mA to 20 A RMS	30 mA to 20 A RSM	0.1 A to 300 A
Accuracy	0.1 A to 10 A; AC to 1 kHz: ±3% + 50 mA; up to 100 A add 15%; up to 20 kHz add 12%	3.5% + 0.5 A for DC or AC (45 to 400 Hz)	2% + 0.5 A for DC or AC (45 to 400 Hz)	±1% of reading, ±2 mA	±1% of reading, ±2 mA	30 A range: 1% + 50 mA 300 A range: 1% + 300 mA
Bandwidth (-3 dB)	100 kHz	3 kHz	10 kHz	dc to 20 kHz (-0.5 dB)	dc to 100 kHz (-0.5 dB)	dc to 20 kHz
Zero error adjustment	•	•	•	•	•	•
Maximum conductor diameter	11.8 mm	30 mm	30 mm	19 mm	19 mm	19 mm
Maximum conductor size	35 mm ²	1× 400 mm ² or 2× 240 mm ²	1× 400 mm ² or 2× 240 mm ²	120 mm ²	120 mm ²	120 mm ²
Output levels	10 mV/A, 100 mV/A	1 mV/A	1 mV/A	100 mV/A	100 mV/A	1 mV/A, 10 mV/A
Output cable	1.6 meter with BNC termination	1.2 meter with shrouded banana plugs	1.2 meter with shrouded banana plugs	1.5 meter with shrouded dual banana plugs	2 meter with BNC termination	2 meter with BNC termination and a BNC to safety shrouded banana adapter
Battery life	40 hours	60 hours	60 hours	30 hours	30 hours	30 hours
Warranty	One-year	One-year	One-year	One-year	One-year	One-year
Safety	CAT II 600 V; CAT III 300 V	CAT III 600 V	CAT III 600 V	CAT III 300 V	CAT III 300 V	CAT III 300 V

AC/DC Current Clamp Selection Guide

	80i-110s	i410	i1010	i30	i30s	i310s
114/115/	0.1 A to 100 A DC/	1.4 A to 400 A DC/	1.4 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
116/117	0.1 A to 70 A AC*	6 A to 400 A AC	6 A to 600 A AC	60 mA to 20 A AC	60 mA to 20 A AC	0.6 A to 300 A AC
233	0.1 A to 100 A DC/	1.4 A to 400 A DC/	1.4 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	6 A to 400 A AC	6 A to 600 A AC	60 mA to 20 A AC	60 mA to 20 A AC	0.6 A to 300 A AC
27 Ⅱ	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	1 A to 400 A AC	1 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.1 A to 300 A AC
28 II	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.2 A to 70 A AC*	6 A to 400 A AC	6 A to 600 A AC	60 mA to 20 A AC	60 mA to 20 A AC	2 A to 300 A AC
77 IV	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	5 A to 400 A AC	5 A to 600 A AC	40 mA to 20 A AC	40 mA to 20 A AC	0.4 A to 300 A AC
175/177/179	0.11 A to 100 A DC/	1.6 A to 400 A DC/	1.6 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.3 A to 70 A AC*	30 A to 400 A AC	30 A to 600 A AC	300 mA to 20 A AC	300 mA to 20 A AC	3 A to 300 A AC
1577/1587	0.1 A to 100 A DC/	1.2 A to 400 A DC/	1.2 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
FC	0.3 A to 70 A AC*	30 A to 400 A AC	30 A to 600 A AC	300 mA to 20 A AC	300 mA to 20 A AC	3 A to 300 A AC
83V/88V	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	1 A to 400 A AC	1 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.1 A to 300 A AC
87V	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.2 A to 70 A AC*	20 A to 400 A AC	20 A to 600 A AC	200 mA to 20 A AC	200 mA to 20 A AC	2 A to 300 A AC
287/289	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	1 A to 400 A AC	1 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.1 A to 300 A AC
123/124	0.1 A to 100 A DC/ 0.25 A to 70 A AC	1 A to 400 A DC/ 25 A to 400 A AC**	1 A to 1000 A DC/ 25 A to 600 A AC**		30 mA to 30 A DC/ 250 mA to 20 A AC	0.1 A to 450 A DC/ 2.5 A to 300 A AC
190 Series II	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC	5 A to 400 A AC**	5 A to 600 A AC**	50 mA to 20 A AC**	50 mA to 20 A AC	0.5 A to 300 A AC
8808A	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	2 A to 400 A AC	2 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.2 A to 300 A AC
8845A/8846A	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	1 A to 400 A AC	1 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.1 A to 300 A AC
705/707	0.1 A to 100 A DC,	4 A to 400 A DC,	4 A to 1000 A DC,	40 mA to 30 A DC,	40 mA to 30 A DC,	0.4 A to 450 A DC,
	no AC*	no AC	No AC	no AC	no AC	no AC
715	0.1 A to 100 A DC,	4 A to 400 A DC,	4 A to 1000 A DC,	40 mA to 30 A DC,	40 mA to 30 A DC,	0.1 A to 450 A DC,
	no AC*	no AC	No AC	no AC	no AC	no AC
787B/789	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	3 mA to 30 A DC/	0.1 A to 450 A DC/
	0.2 A to 70 A AC*	20 A to 400 A AC	20 A to 600 A AC	200 mA to 20 A AC	200 mA to 20 A AC	2 A to 300 A AC

* Requires PM9081 Adapter ** Requires PM9082/001 Adapter

AC/DC Current Clamps



i410 AC/DC Current Clamp

This battery-powered Hall-effect probe measures 1 A to 400 A with large-claw clamp that gives access to difficult-toreach areas. It is compatible with most multimeters and other devices that measure AC and DC current and accepts shrouded 4 mm banana plugs.

- On/Off LED indicator
- AC and DC current range: 1 A to 400 A
- Frequency range: DC to 3 kHz
- Safety rating: CAT III 600 V



i410-KIT AC/DC Current Clamp and Carry Case Kit

This special-value kit for electrical professionals adds AC and DC current measurement capabilities to a digital multimeter. A roomy carrying case holds a meter and the current clamp plus test leads, probes and manuals. Kit includes:

- i410 AC/DC Current Clamp
- C116 Soft Carrying Case



i1010 AC/DC Current Clamp

This clamp measures both AC and DC currents with a large-jaw, battery-powered Hall-effect probe that gives access to difficult-to-reach areas. It is compatible with most Fluke multimeters and any other devices that measure AC and DC current and accept shrouded 4 mm banana plugs.

- On/Off LED indicator
- AC current range: 1 A to 600 A AC
- DC current range: 0.5 A to 1000 A DC
- Frequency range: DC to 10 kHz
- Safety rating: CAT III 600 V RMS



i1010-Kit AC/DC Current Clamp and Carry Case Kit

This special-value kit for electrical professional adds AC and DC current measurement capabilities to a digital multimeter. A roomy carrying case holds a meter and the current clamp plus test leads, probes and manuals. Kit includes:

- i1010 AC/DC Current Clamp
- C116 Soft Carrying Case



i30 AC/DC Current Clamp

Based on Hall-effect technology, this battery-powered clamp measures both AC and DC current. It may be used in conjunction with multimeters, recorders and other suitable recording instruments for accurate non-intrusive current measurement.

- AC current range: 30 mA to 20 A RMS
- DC current range: 30 mA to 30 A $\,$
- Frequency range: DC to 20 kHz (-0.5 dB)
- Safety rating: CAT III 300 V



i30s AC/DC Current Clamp

Based on Hall effect technology, this battery-powered clamp measures both AC and DC current. It may be used with ScopeMeter[®] and other suitable recording instruments for accurate nonintrusive current measurement.

- AC current range: 30 mA to 20 A RMS
- DC current range: 30 mA to 30 A
- Frequency range: DC to 100 kHz
- Safety rating: CAT III 300 V



i310s AC/DC Current Clamp

Based on Hall-effect technology, this battery-powered clamp measures both AC and DC current. This clamp is especially useful for current measurements on inverters, switching power supplies, industrial controllers, automotive diagnostics, and other applications requiring current measurements and/or waveform analysis.

- AC current range: 0.1 A to 300 A
- DC current range: 0.1 A to 300 A
- Frequency range: DC to 20 kHz
- Safety rating: CAT III 300 V



80i-110s AC/DC Current Clamp

This clamp is compatible with ScopeMeters®, power harmonics analyzers, multimeters, and other voltage measurement devices that have BNC input connectors.

- AC current range: 0.1 A to 70 A
- DC current range: 0.1 A to 100 A
- Frequency range: DC to 100 kHz
- Optional PM9081/001 Dual Banana Plug Male to Female BNC Adapter is available for digital multimeters
- Safety rating: CAT II 600 V

Did you know?

Does your current probe read zero current when you clamp it around a power cord?

That's because the power cord has both the hot and neutral current carrying wire in it. If both wires are in the jaws of the clamp meter, the fields cancel each other out, and the current clamp will read nothing. You need to put just one current-carrying conductor in the jaw of the current clamp. If you don't have access to the separate wires within the cord, use a line splitter tool to avoid breaking the circuit.

FLUKE **CASES. HOLSTERS & HANGERS**

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Fluke Tool	110/114/115/116/117	175/177/179	287/289	27 II/28 II	61	77 IV	83V/87V/88V	233	287/289	323/324/325	373/374/375/376/902	353/355	365	393 FC	1503/1507/1577/1587	9040/9062	430/173X/174X Series	120B Series	190 Series	51/52/53/54 II	561	570 Series	705/707	712/714/715/717	718	724/725/726	753/754	787B	789	922	971	T5/T6/T+/T+Pro	T90/T110/T130/T150
Soft Cases																																	
C23	•				•	•		•		•																				•	•		
C25	•	•		•		•	•	•		•					•	•				•				•				•	•	•	•		
C33						•				•	•																	•				•	
C35	•	•		•		•	•	•							•			•		•			•	•	•			•	•	•			
C43								•				•						•							•	•							
C50	•												Dee							•													
C75 C90		•				•							FOI	mult	ipie	test .	leads	and	i acc	esso	ries									•			
C115	•	•		•		•	•	•							•			•		•			•	•	•	•		•	•				
C116	•	•	•	-		•	•	•							•			•		•			•	•	•	•		•	•				
C150						•				•	•																	•				•	•
C280	•	•				•	•	•							•			•		•			•	•	•	•		•	•				
C345												For	mul	tiple	met	ers, t	est l	eads	and	acce	essor	ies											
C550	For multiple meters, test leads and accessories																																
C781			•												٠			٠							•	٠	•		٠				
C789																		•							•		•	•	•				
Hard Cases	5																																
C20				•					•																								
C100		٠		٠			•																					•					
C101		•		•	•		•	•	•	•	•				٠	•				•			•	•	•	٠		•	•		•		•
C11XT	•	•		•						•	_																					_	
C37XT	•	•		•			•	•		•	•			•	•											•		•	•			•	
CXT80				•			•	•																				•	•				
CXT170	•	•				•									•					•				•				•	•				
CXT280 CXT1000			•											+1						3 - 43-	4 -	-1						•	•				
C800		•				•	•	•				FOI	mui	tipie	mete	ers, a	lcces	sorie	s and	d oth	er to	OIS		•				•					
C1600		•				•		•				For	mul	tiple	mete	ers a	cces	sorie	s and	d oth	er to	ols		•									
Leather Ca	ses											101	mai	cipio	mote	5167 d			b dill		.01 10	015											
C510		•				•	•								•					•				•		•		•	•				
C520A							•																									•	
H80M																												•		•			
Holster																																	
НЗ										•	•																						
H5																																•	
H6																					•												•
H15																																T+/T +Pro	•
Hangers																																	
ToolPak	•	•				•	•	•	•							•				•				715		•			•				

Accessories

FLUKE ®

WORD CONTRACTOR

Cases, Holsters and Hangers

Soft Cases



C25 Large Soft Case for DMMs

Zippered carrying case with padding and inside pocket for holding accessories.

- Made of polyester
- Dimensions (HxWxD): 218 × 128 × 64 mm (8.6 × 5 × 2.5 in)



C33 Soft Carrying Case

Zippered carrying case with durable vinyl exterior and belt loop. Inner pocket stores test leads and small accessories.

- Made of polyester
- Dimensions (HxWxD): 280 × 115 × 55 mm (11 × 3.6 × 2 in)



C35 Soft Carrying Case

Case top opens laterally to allow use of test tool without removing it from the case and includes a VelcroTM strap to secure the tool.

- Made of durable polyester 600D
- Dimensions (HxWxD): 220 × 140 × 65 mm (8.6 × 5.5 × 2.5 in)



C43 Soft Carrying Case

Zippered carrying case includes inner front pocket with closure and two pockets to store test leads or small accessories.

- Made of durable polyester 600D
- Dimensions (HxWxD): 318 × 230 × 90 mm (12.5 × 7.5 × 3.5 in)



C50 Meter Case

Zippered and padded case featuring an inside strap as well as a belt loop for convenient carrying. Also includes an inside pocket for holding accessories.

- Made of polyester
- Dimensions (HxWxD): 192 × 90 × 38 mm (7.56 × 3.5 × 1.5 in)



C60 Accessory Case

The Fluke C60 is a soft case compatible with many Fluke test tools including: T6 and T5 Series, T+/T+PRO, 110 Series, 170 Series.

- · Made of polyester
- Dimensions (HxWxD): 379 × 206 × 79 mm (14.9 × 8.1 × 3.1 in)



C75 Accessory Case

Zippered carrying case designed for carrying small accessories. Includes two inside pockets.

- Made of polyester
- Dimensions (HxWxD): 179 × 103 × 26 mm (7 × 4 × 1 in)



C115 Soft Carrying Case

Includes two padded pockets for protection of two test tools, and a pouch for test leads and other accessories.

- Made of durable polyester 600D
- Dimensions (HxWxD): 240 × 205 × 75 mm (9.4 × 8 × 3 in)



C116 Soft Carrying Case

Provides adjustable padded space with a moveable Velcro[™] divider.

- Made of durable polyester 600D
- Dimensions (HxWxD): 240 × 230 × 65 mm (9.4 × 9 × 2.5 in)



C150 Soft Carrying Case

Zippered carrying case with inner pocket for storing test leads and small accessories.

- High quality 1000D fabric
- Dimensions (HxWxD):
 - 298 × 114 × 56 mm (11.7 x 4.5 x 2.2 in)



C280 Soft Case

Designed especially for larger format test tools. Includes detachable, extendable shoulder strap and an inner front pocket with closure and dual pouch pockets for test tools and accessories.

- Made of durable polyester 600D
- Dimensions (HxWxD): 230 × 185 × 65 mm (9 x 7.3 x 2.5 in)



C345 Soft Case

The perfect case for carrying a wide range of Fluke handheld test tools and accessories. Includes an elastic accessory strap and mesh accessory retainer as well as an outer pouch, outer zipper packet and two slash pockets for convenient accessory storage.

- Made of durable polyester 600D
- Dimensions (HxWxD): 360 × 200 × 240 mm (14.2 x 7.8 x 9.4 in)

Cases, Holsters and Hangers



Accessories



Pack30 Professional Tool Backpack

- Lightweight take the load off your back
- Rugged, waterproof bottom base protects your tools and keeps them upright
- Over 30 pockets in six main storage compartments



C550 Tool Bag

Rugged, weather-resistant tool bag, features a large 25 pocket storage compartment and steel-reinforced frame.

 Dimensions (HxWxD): 333 × 513 × 231 mm (13.1 × 20.2 × 9.1 in)



TB25 Tool Bucket Organizer Bag

Tool bucket with a 5.2-gallon capacity, hard exterior shell, and plastic waterproof base

- 19 interior and 9 exterior pockets
- Dimensions (HxWxD): 425 × 305 × 330 mm (16.7 × 12 × 13 in)



C570 Soft Case

Designed specifically for the Fluke 560 and 570 Series Infrared Theremometers

 Dimensions (HxWxD): 240 × 89 to 170 × 56 mm (9.4 × 3.5 to 6.7 × 2.2 in)



C195 Soft Carry Case

- Zippered with multiple storage compartments & shoulder strap
- Dimensions (HxWxD): 513 × 331 × 231 mm (16.7 × 12 × 13 in)



C125/C781 Meter Case

Zippered case, designed for carrying a meter as well as a detachable external pouch for holding test leads.

- Made of durable polyester 600D
- Dimensions (HxWxD): 269 × 141 × 90 mm (10.6 × 5.5 × 3.5 in)



C789 Meter and Accessory Case

Large carrying case with three compartments, removable handle, and shoulder strap. Holds a meter and multiple accessories.

- Made of durable polyester 600D
- Dimensions (HxWxD): 308 × 256 × 77 mm (12.1 × 10 × 3 in)



C799 Soft Field Case

For use with Fluke 750 Series Documenting Process Calibrators

- Allows instrument to be operated inside case with clear front protecting keyboard
- Dimensions (HxWxD): 305 × 229 × 165 mm) (12 × 9 × 6.5 in)



C101 Hard Case

Tough polypropylene case with configurable diced foam interior to store and protect tools and accessories.

 Exterior dimensions (HxWxD): 305 × 360 × 105 mm (12 × 14.2 × 4.1 in)

Hard Cases



C290 Hard Shell Protective Carry Case

For use with Fluke 190 Series II ScopeMeters[®]

 Dimensions (HxWxD): 378 × 487 × 147 mm (14.88 × 19.17 × 5.78 in)



C1600 Gear Box

A rugged, molded plastic case with a deep interior and lift-out tray.

- Includes five hook and loop straps to wrap cords and test leads
- Dimensions (HxWxD): 260 × 390 × 200 mm (10.2 × 15.3 × 7.8 in)



C11XT EVA Foam Hard Case

Includes a large pocket on one side for multiple accessories and a mesh pocket on the other side for one test tool.

- For use with 11x and 17x multimeters, and 32x clamp meters
- Dimensions (HxWxD): 240 x 155 x 105 mm (9.4 × 6.1 × 4.1 in)



C37XT EVA Foam Hard Case

Features a divider with elastic straps to hold one test tool, with two pockets and straps for accessories. Also includes space to secure an iFlex[™] probe.

 Dimensions (HxWxD): 397 × 346 × 122 mm (15.6 × 13.6 × 4.8 in)



CXT Extreme Case Series

- CXT1000: for multiple meters, accessories and other test tools (Dimensions (HxWxD): 343 mm × 465 mm × 178 mm
- CXT1000 features a diced foam interior for custom storage configuration
- Unbreakable, watertight, airtight, dust proof, chemical resistant and corrosion proof
- CXT80: for use with 87V, 80 Series, 187/189, 27 II/28 II series
- CXT170: for use with 170 Series, 114/115/116/117, 77 III, and 77 IV
- CXT280: for use with 287 or 289
- Dimensions (HxWxD):
- 279 × 318 × 127 mm (11 × 12.5 × 5 in)

Leather Cases



C510 Leather Meter Case

Rugged leather case features a large belt loop and a top flap to secure the tool. Made of top-grain cowhide with heavy-duty stitching and reinforced rivets.

 Dimensions (HxWxD): 287 × 179 × 106 mm (11.3 × 7 × 4.2 in)

Holsters, Hangers and Light Kits

Holsters



H5 Electrical Tester Holster

Rugged fabric holster designed to hold Fluke T3 and T5 Electrical Testers. It features a built-in belt loop and flap for test lead storage.

 Dimensions (HxWxD): 192 × 90 × 38 mm (7.5 × 3.5 × 1.5 in)



H6 Infrared Thermometer Holster

Durable nylon construction with Velcro™ closures provides quick access and protection for infrared thermometers.

- Dimensions (HxWxD):
 - 302 × 178 × 57 mm (11.8 × 7 × 2.2 in)



HT6 Holster

For use with models T6-600 and T6-1000 $\,$

• Flap for test lead storage and built-in belt loop



H15 Electrical Tester Holster

Rugged fabric holster designed to hold Fluke T90, T110, T130 and T150 Two-Pole Testers.

- High quality 1000D fabric
- Dimensions (HxWxD):
 - 279 × 92 × 51 mm (11 × 3.6 × 2 in)



H80M Protective Holster with Magnetic Hanging Strap

Convenient snap-on holster with a magnetic hanging system enables hands-free work while protecting digital multimeters or calibration tools.

- Includes a hanging magnet, general purpose hanger, and hook/loop straps
- Dimensions (HxWxD):
 100 × 05 × 42 mm (75 × 27 × 17);
- 190 × 95 × 43 mm (7.5 × 3.7 × 1.7 in)

Hangers



TPAK ToolPak™ Magnetic Meter Hanger

Hang your meter in a variety of ways for convenient hands-free operation.

Attaches to the back of many Fluke meters, including 110, 170, 180, 280 Series, 83V and 87V DMMs, 724, 725 and 789 Process Calibrators, 70 Series III DMMs, 1503, 1507, 1577 and 1587 FC Insulation Multimeters and 50 Series II Digital Thermometers.

Lights



L200 Probe Light

Small, rugged light that easily attaches to any Fluke test probe, illuminates the contact area and frees hands for work.

- Bright white LED with 120 hours of battery life
- Two 3 V watch batteries included



L205 Mini Hat Light

Rugged, high-intensity Xenon work light with pre-focused optical-quality reflector attaches to a baseball cap to allow hands-free work.

- Includes waterproof ABS case that won't crack or chip
- Two AAA batteries included



L206 Deluxe LED Hat Light

Attach this water-resistant light to a hard hat, a baseball hat, or even a panel door for hands-free bright light where needed. Includes a 360° rotating clip, special hard-hat attachment, and neck lanyard.

- (Hat not included).
 - Three LEDs with 40-hour battery life
 - Three AAA battery included



L210 Probe Light Kit

Two probe extenders 20 cm fit modular test probes and keep hands away from live circuits. Ultra-bright white LED provides 120 hours of battery life. Kit includes:

- L200 Probe Light
- SureGrip™ test probe extenders
- Two 3 V watch batteries included
- Probe extenders safety rating: CAT III 1000 V, 10 A



L211 Probe Light Kit

This special-value combo pairs the new L200 Probe Light with one of the most popular test leads by Fluke and a handy carrying case. Probe light attaches to any Fluke test probe to free both hands for work. Kit includes:

- L200 Probe Light
- TL71 Premium Test Lead Set
- C75 Accessory Case



L215 SureGrip ${}^{\rm TM}$ Kit with Probe Light and Probe Extender

Kit includes:

- L200 Probe Light
- SureGrip™ Test Probe Extenders, 20 cm
- TP220 SureGrip™ Industrial Test Probes
- TL224 SureGrip™ Insulated Test Leads
- Foldable pouch with six pockets and hook & loop closure
- Safety rating:
 TP220: CAT II 1000 V, 10 A.
 (CAT III 1000 V, CAT IV 600 V with protective cap)
- TL224: CAT III 1000 V, CAT IV 600 V, 10 A
- Probe extenders: CAT III 1000 V, 10 A

R ACCESSORIES

High Frequency



85RF High Frequency Probe

Converts a DC voltmeter with an input impedance of 10 megohms into a high frequency (100 kHz to 500 MHz) RF voltmeter.

- Voltage range: 0.25 V to 3 V AC RMS
- Maximum input: 30 V RMS, 200 V DC
- AC to DC ratio: 1:1
- · Ratio accuracy at 25 MHz and loaded with 10 $M\Omega$

Fiber Optics



FOM Fiber Optic Meter

Allows testing and maintenance of fiber optic cables without buying a new meter. It plugs directly into any digital multimeter with mV DC function and a 10 M Ω input impedance to quickly and accurately verify fiber optic cable system loss.

- Wavelengths: 1550, 1300, 850 & nm
- Light sources sold separately



FOS-850 and FOS-850/1300 Fiber **Optic Light Source**

Both of these fiber optics accessories are designed to offer a variety of light sources for testing different cable lengths.

• Wavelengths: FOS-850: 850 nm; FOS-850/1300: 850 and 1300 nm



Miscellaneous

12,000 12400

.000

IR189USB USB Cable Adapter

Included with FVFSC2 and FVF-Basic software.

• Small adapter to connect the cable to the 189, 287, 289, 1653B or the 1550C is included



SV225 Stray Voltage Adapter

Stray voltage can appear in electrical installations, due to the capacity between wires. This may result in erroneous readings on high impedance meters. The SV225 solves this without compromising safety.

- On energized wires, the meter will indicate the real voltage
- On non-energized circuits the meter will read close to zero (even if there are stray voltages)
- Can be used on all meters with standard 19mm (0.75 in) input spacing
- Safety rating: CAT III 1000 V, CAT IV 600 V

Note: This adapter should not be used on lowvoltage control circuits or where the circuit under test could be adversely-affected by this low impedance load. The adapter is designed to handle continuously-applied power system voltages without damage. However, this adapter is intended to be used intermittently to determine whether a circuit is energized.

Fluke ConnectTM



ir3000 FC Connector for Fluke Connect^T

- · Get all the benefits of the Fluke Connect[™] app, and be on the same page, even while in different places
- Wirelessly share measurements with your team-anywhere, anytime
- Connect the Fluke 289/287 Multimeters, Fluke 1550C/1555 Insulation Testers and Fluke 789 ProcessMeter[™] with the ir3000 FC



PC3000 Wireless PC Adapter

- Fluke PC3000 FC Adapter and software
- Must be connected to the USB port in order to enable communication between FC modules and software.
- SW3000 supports up to two PC3000 FC Adapters

AUTOMOTIVE ACCESSORIES



BP880 BNC to Female Double Stacking Banana Plug

Converts a BNC scope lead to a dual banana plug for connection to a digital multimeter to provide hands-free testing in controlled voltage environments.

- Voltage range: up to 500 V AC RMS
- 4 mm banana plug is nickel-plated, beryllium copper for low contact resistance



BP881 BNC to Male Double Stacking Banana

Easily connects a digital multimeter to a BNC patch cord to provide handsfree testing in controlled voltage environments. This adapter connects accessories that have a male BNC output.

- Voltage range: up to 500 V AC RMS
- 4 mm banana plug is nickel-plated, beryllium copper for low contact resistance



TL28A Automotive Test Lead Set

Silicone-insulated test leads (red, black) with large, solid copper alligator clips with 12.7 mm opening and serrated teeth.

- 1.5 m test leads
- Safety rating: 30 V, 10 A



TL82 Automotive Pin and Socket Adapter Set

This collection of male and female adapters provides firm connection to pin-and-socket connectors. Rated to 60 V DC. Set includes:

- Two retractable shrouded test leads (red, black) 1.2 m
- Eight pin-and-socket adapters with flexible tips (red, black):
- Size 22 contact 0.76 mm, rated 5 A
- Size 20 contact 1.02 mm, rated 7.5 A
- Size 16 contact 1.60 mm, rated 13 A
- Size 12 contact 2.36 mm, rated 23 A



TLK281 SureGrip[™] Automotive Test Lead Kit

Sharp stainless steel probes can be used to contact the wire conductor or pinpoint tests on a circuit or relay while the large-jaw alligator clips ensure a good ground on the engine or connection to battery terminals. Rated to 60 V DC. Kit includes:

- TP81 Insulation Piercing Clip Set
- TL224 SureGrip™ Insulated Test Leads
- TP220 SureGrip™ Industrial Test Probes
- AC220 SureGrip[™] Alligator Clips
- AC285 SureGrip[™] Alligator Clips
- Soft case



TLK282 SureGrip[™] Deluxe Automotive Test Lead Kit

This kit includes everything in the TLK281 Kit plus a few extras. The back probe pins slide past weatherpack connectors on fuel injectors, TPS, and MAP sensors. A hook probe with plunger actuation allows quick connection to pins or exposed conductors. Rated to 60 V DC. Kit includes:

- TP81 Insulation Piercing Clip Set
- TP40 Automotive Back Probe Pins (five)
- TL224 SureGrip™ Insulated Test Leads
- TP220 SureGrip[™] Industrial Test Probes
- AC220 SureGrip™ Alligator Clips
- AC285 SureGrip™ Alligator Clips
- AC280 SureGrip™ Hook Clips
- Soft Case



TP40 Automotive Back Probe Pins

Flexible and formable 31-75 mm pins provide an easy connection past weather-pack seals to connector conductors. These five pins are a must-have for fuel injectors, TPS, and MAP sensors, as well as for any underhood or under-vehicle connector with weather-pack seals.

- 4 mm banana jack accepts digital multimeter and banana jack leads
- Easily connects to modular leads
- Rated to 60 V DC



TP81/TP82 Insulation Piercing Clip Set

Two stainless steel probes (red, black) pierce insulation on 14, 16 and 18 gauge wire. Needle depth can be controlled to minimise insulation damage. Essential for use under hood or under dash. Can be used on fuel injectors or sensors while providing complete insulation to grounding. Probe connects to a banana jack that accepts all digital multimeter and banana jack leads (such as the TL224 SureGrip™ Insulated Test Leads).

- TP81 has non-rotating 4 mm banana jack to prevent leads from tangling
- · Rated to 60 V DC
- TP82 is for use with test leads with 2 mm probes



TP88 Rigid Back Probe Pins

Better than a test probe alone, these rigid back probe pins easily pass between a weather-pack seal and wire. A sharp point ensures good contact to the electrical connector, and insulation protects the pin from shorting to other wires. Rated to 60 V DC

- Slides onto 2 mm test probes
- Probe length: 51 mm



RPM80 Inductive Pick-Up/ External Trigger

- Provides RPM measurement capability when clipped on spark plug wire
- For use with Fluke 88 Series and 78 Series Digital Multimeters.

Accessories

PORTABLE OSCILLOSCOPE ACCESSORIES

Compatibility Chart	120B Series	190 Series II	190 Series III
Voltage Probes			
VPS41 Voltage Probe Set 10:1, 40 MHz, Bl (Black)	•		
VPS410-II-X Ind. Voltage Probe 10:1, 500 MHz, × = B (Blue), G (Grey), R (Red) or V (Green)		•	•
VPS421-X High working voltage ruggedized probe set, 100:1, 150 MHz, x = B (Blue), G (Grey), R (Red) or V (Green)		•	•
VPS210-X Voltage Probes, 200 MHz, R (Red), G (Grey)			
STL120-IV Shielded Test Lead Set 1:1, B (Blue) & R (Red)	•		
Probe Accessories			
AS400 Probe Accessory Extension Set 1		•	•
RS400 Probe Accessory Replacement Set for VPS400 Series Voltage Probes		•	•
RS500 Probe Accessory Replacement Set for VPS510 Series Voltage Probes		•	•
AC Current Clamps			
i3000s AC Current Clamp	•*	•	•
i3000s Flex-24/36 AC Current Clamp, 610 mm (24 in. and 36 in.)	•*	•	•
i1000s AC Current Probe	•*	•	•
i400s AC Current Clamp	•*	•	•
i200s AC Current Clamp	•*	•	•
i5s AC Current Clamp	•*	•	•
AC/DC Current Clamps			
80i-110s AC/DC Current Clamp	•*	•	•
i1010 AC/DC Current Clamp	•	•	•
i410 AC/DC Current Clamp	•	•	•
i30s AC/DC Current Clamp	•*	•	•
Automotive			
SCC128 Automotive Troubleshooting Kit for 120 Series	•		
SCC198 Automotive Troubleshooting Kit for 190 Series			
SCC298 Automotive Troubleshooting Kit for Fluke 190 Series II		•	•
Test Lead Accessories			
TL175 TwistGuard™ Test Leads	•	•	•
Cables and Adapters			
PM9091 50 Ω Coaxial BNC Cable Set (3 × 1.5 m)		•	•
PM9092 50 Ω Coaxial BNC Cable Set (3 × 0.5 m),		•	•
PM9093 Male BNC to Dual Female BNC Adapter, CAT III 600 V		•	•
PM9081 Dual Banana Plug (Male) to Female BNC Adapter, CAT III 600 V		•	•
PM9082 Dual Banana Jack (Female) to Male BNC Adapter, CAT III 600 V		•	•
BB120-II Shielded Banana to Female BNC Adapter*	•		
TRM50 Coaxial Feed-through BNC Male to BNC Female Cable Terminator		•	•
Miscellanous			
700-IV Current Shunt			
EBC290 External Battery Charger for BP290 and BP291	•	•	•
BC190/830 Mains Adapter/Battery Charger		•	•
BC430/820 Mains Adapter/Battery Charger	•		
BP190 Rechargeable NiMH Battery Pack		•	•
BP290 Li-ion Battery Pack, 2400 mAh	•	•	•
BP291 Li-ion Battery Pack, 4800 mAh		•	•
OC4USB USB Interface Cable	•	•	•
	• 125B only	•	•

 \ast "s" version clamps require BB120-II Adapter when used with the Fluke 120B Series

Portable Oscilloscope Accessories



VPS421-X High Working Voltage Ruggedized Probe

- Set includes: VPS421-X 100:1, 150MHz
- X = Red, Blue, Grey or Green
- 100:1 Voltage Probe, with safety
- shrouded 4 mm tip 1 red / blackHook Clip for 4 mm shrouded Probe Tip
- (black)Reference Lead with 4 mm Banana Plug (black)
- Alligator Clip for 4 mm Banana Plug (2 black)
- Test Probe for 4 mm Banana Plug (black)



AS400 Probe Accessory Extension Set

For VPS400 Series Probes

- CAT III 1000 V/CAT IV 600 V
- Reference lead w/ 4 mm plug (Blk) 60 cm
- Reference lead with hook clip (Blk) 22 cm
- Large jaw probe clip (black)
- CAT II 1000 V
- 2 mm test probe for probe tip (1×, black)
- 4 mm test probe for probe tip (1×, black)



RS400 Probe Replacement Set

For VPS400 Series Probes and VPS210 Series Probes

- CAT III 1000 V/CAT IV 600 V
- 1× Probe hook clip (black)
- Ground lead w/ mini alligator clip
- 2× Insulation sleeve (black)
- 30 V
- 2× Ground spring (black)



RS500 Probe Replacement Set

- For VPS510 Series Probes
- CAT II 300 V
- 1× hook clip (black)
- $1 \times$ ground lead with mini alligator clip
- 2× insulation sleeves for probe's ground contact (black)
- 1× BNC to probe tip adapter (black)
- 30 V

168

• 2× ground browsers (black)

Fluke Accessories

 1× insulated mini screwdriver, for probe adjustment purposes



TP920 Test Probe Adapter Set

Suited for STL120 Test Leads (STL120-III, not compatible), TL71, TL75 & TL76 Test Leads

• Rated for 3 A max



PM9091 Set of 3× Coaxial Cables with BNC Connectors

- Length: 1.5 m each
- Impedance: 50 Ω
- Color: 2× Red, 2× Black, 2× Grey
- Max signal voltage: 300 Vrms
- Max voltage to ground: CAT III 600 V per IEC 61010-031



PM9092 Set of Coaxial Cables with BNC Connectors

- Length: 0.5 m each
- Impedance: 50 Ω
- Color: 1× Red, 1× Black, 1× Grey
- Max signal voltage: 300 V
- Max voltage to ground: CAT III 600 V per IEC 61010-031



PM9093 Adapter BNC (Male) to Dual BNC (Female) in T model (6)

- Color: 2× Black
- Max signal voltage: CAT III 300 V per IEC 61010-031
- Max voltage to ground: CAT III 600 V per IEC 61010-031



PM9081 Adapter BNC (Female) to Dual Banana Jack

- Color: 2× Red, 2× Black
- Max signal voltage: CAT III 600 Vrms per IEC 61010-031
- Max voltage to ground: CAT III 600 V / CAT II 1000 V per IEC/EN61010



PM9082 Adapter BNC (Male) to Dual Banana Jack

- Color: 2× red, 2× black
- Max signal voltage: CAT III 600 V per IEC 61010-031
- Max voltage to ground: CAT III 600 V / CAT II 1000 V per IEC/EN61010



HC120 Hook Clips

- Color: 1× red, 1× grey
- Max voltage: CAT III 600 V per
- IEC 61010-031 • Nickel plated steel
- Nickel plated ste



BB120-II Adapter BNC (Female) to Shielded Banana Jack

- Set of 2
- Max signal voltage: CAT III 300 V per IEC 61010-031
- Max voltage to ground: CAT III 600 V per IEC 61010-031



TRM50 Coaxial Feed-through BNC (Male) to BNC (female) Cable Terminator

- Set of 2
- Impedance: 50 Ω
- Max voltage over ground:
- CAT III 1000 V
- Max power 1 W



BHT190 Bus Health Test Break-out Adapter Set

- Board with M12 connectors (male to female, 5 pins)
- DB-9 connectors (male to female, 9 pins + shield)
- RJ-45 connector, with short patch cable providing male to female interconnection (8 pins)



EBC290 External Charger

· Power supply not included

0.84 A max)

For Fluke 120B and 190 Series II and Series III ScopeMeter[®] Oscilloscope

Charging time (BP291): five hours, giving an operating time of up to seven hours
DC input voltage: 15 V to 23 V, 714 mA

nom. (DC input from BC190: 17.8 V /

FLUKE ®

POWER QUALITY ACCESSORIES

A Start

Fluke Model Number	i3000 Flex 4PK	i400s	i430-FLEXI-TF-II	i5sPQ3	3210-PR -TF-II
Description	4 phase 3000 A Flexible current clamp set	Single phase 400 A current clamp (4 required)	4 phase 3000 A Flexible current clamp set	3 phase 5 A Current clamp set	1000 A Single phase flexible current clamp
Fluke 1750					•
Fluke 43X -II	•	•	•	•	
Nominal Current Range(s)	30 A 300 A 3000 A	40 A 400 A	3000 A	5 A	
Cont. AC Current Range	1 A 30 A 1 A 300 A 1 A 2400 A	0.5 A 40 A 5 A 400 A	30 A 3000 A	0.01 A 6 A	0.5 A 1000 A
Highest Current	4000 A	1000 A	100 kA	70 A	1000 A
Lowest Measurable Current	1 A	0.5 A	30 A	10 mA	0.5 A
Basic Accuracy (48 65 Hz) ¹⁾	2% + 2 A	2% + 0.15 A	1%	1%	$\pm 1\%$ of reading
Usable Frequency	10 Hz 100 kHz	45 Hz 3 kHz	10 Hz 7 kHz	40 Hz 5 kHz	40 Hz 5 kHz
Flex Head Length		Clamp opening: 32 mm	61 cm	Clamp opening: 15 mm	61 cm
Output Level(s)	10 mV/A 1 mV/A 0.1 mV/A	10 mV/A 1 mV/A	0.08 mV/A @50 Hz	400 mV/A	2 mV/A
Output Cable (m)	2.1	2.5	2.5	2.5	3
Safety Rating	CAT III 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 600 V	CAT III 1000 V CAT IV 600 V

FLUXE 19012

¹ Basic accuracy: % reading plus floorspec. n/a = not applicable

ALLINGON?

Fluke Model Number	Fluke i17XX- Flex 1500A 12 IN	Fluke i17XX- Flex 3000A 24 IN	Fluke i17XX- Flex 6000A 36 IN	Fluke i 17XX i40s-EL Clamp- On Current Transformer	Fluke i17XX- Flex 1500A 12 IN	Fluke i17XX- Flex 3000A 24 IN	Fluke i17XX- Flex 6000A 36 IN
Description	1500 A Single phase flexible current clamp IP50	3000 A Single phase flexible current clamp IP50	6000 A Single phase flexible current clamp IP50	4/40 A Current clamp (3 required)	1500 A Single phase flexible current clamp IP65	3000 A Single phase flexible current clamp IP65	6000 A Single phase flexible current clamp IP65
Fluke 1742/46/48				•	٠	•	•
Fluke 1732/34/36/38	•	•	٠	•			
Nominal Current Range(s)	1 A to 150 A, 10 A to 1500 A	3 A to 300 A, 30 A to 3000 A	6 A to 600 A, 60 A to 6000 A	40 mA to 4 A, 0.4 A to 40 A	1 A to 150 A, 10 A to 1500 A	3 A to 300 A, 30 A to 3000 A	6 A to 600 A, 60 A to 6000 A
Cont. AC Current Range	1 A 150 A 10 A to 1500 A	1 A 300 A 10 A 3000 A	1 A 600 A 10 A 6000 A	1 A 150 A 10 A 1500 A	1 A 150 A 10 A to 1500 A	1 A 300 A 10 A 3000 A	1 A 600 A 10 A 6000 A
Highest Current	1500 A	3000 A	6000 A	200 A	1500 A	3000 A	6000 A
Lowest Measurable Current	1 A	3 A	6 A	0.04 A	1 A	3 A	6 A
Basic Accuracy (48 to 65 Hz) ¹⁾	0.70%	0.70%	0.70%	0.50%	0.70%	0.70%	0.70%
Usable Frequency	40 Hz to 5 kHz	40 Hz to 5 kHz	40 Hz to 5 kHz	40 Hz to 5 kHz			
Flex Head Length	30.5 cm (12 in)	61 cm (24 in)	122 cm (48 in)	n/a	30.5 cm (12 in)	61 cm (24 in)	122 cm (48 in)
Output Level(s)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Output Cable (m)	2	2	2	2	2	2	2
Safety Rating	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V			

Power Quality Accessories

Fluke 430 Series-II



i430-FLEXI-TF-II/4PK 6000 A Thin Flexible Current Probe

- 6000 A current range
- 61 cm (24 in) length
- Available in single and 4 pack



i400s AC Current Clamp

400 A AC current range

- 32 mm (1.25 in) jaw size
- Optional PM9081/001 Dual Banana Plug Male to Female BNC Adapter is available for digital multimeters



I5SPQ3 5 A Current Clamp, 3 pack

- 5 A AC Current Clamp for 430 Series-II
- 15 mm (0.6 in) jaw size



TLS430 Test Lead and Alligator Clip Set

- Test lead replacement set for the 430 Series-II
- Set includes five test leads and five alligator clips (4 black, 1 green)



WC100 Color Coding Clips and Regional Decals

Cable markers for 3-phase +N leads



C1740 SOFT CASE

Soft Case with compartments and shoulder strap for 430 Series II



C437-II Hard Case Black waterproof case with wheels



BP290 Battery 430 Series-II Replacement Battery Pack



BP291 Battery

430 Series-II Double Capacity Replacement Battery Pack



BC430/820 Battery Charger

Battery Charger for 430 Series II

Fluke 1730 & 1740 Series



I17XX-FLEX iFlex™ Current Clamps

- iFlex[™] probes connect directly to the 173X Energy or Power Logger, displaying current measurements without error, prone scaling factors
- Fluke 17XX iFlex[™] cables are available in 30.5, 61, and 91.5 cm (12, 24, and 36 in) models
- Available to order in single, three, or four pack



I17XX-FLEX IP65 Current Probes

IP65 rating is obtained when connected to the 1740 Series only.

- 1.5 kA 61 cm (24 in) length
- 3 kA 61 cm (24 in) length
- 6 kA 122 cm (48 in) length
- Available in single, 3 and 4 packs



3PHVL Voltage Cable Assembly

- Voltage Measurement Lead Set for 1730 & 1740
- Flat, four wire cable



17XX i40s-EL Clamp-on Current Transformers

- Suitable for making measurements up to 40 A, and also measures accurately on 1 A and 5 A secondary current transformers
- The i40s-EL jaw is capable of being clamped on current conductors up to 15mm in diameter



IP65 VOLT CONN

IP65 rated Voltage Connector for wet measurement environments.

 Six pole connector with six leads for connection of voltage and instrument power.



MP1-Magnet Probe 1

Magnetic probe tips for voltage test leads with 4 mm banana connectors.



MP1-3R/1B Magnetic Voltage Probes

3 Red/1 Black Magnet Probes for 4 mm Banana



I17XX-FLEX5M-EXT

Fluke 17XX IFLEXI Extension Cable 5 m



FLUKE-17XX-TL 0.2M Test Lead Set

- CAT III 1000 V, Non-Stack Conn;
- Available in:0.2 m; Red/Blk



Fluke 1730-HANGER STRAP

Two piece hanging kit for the Fluke 173X Energy or Power Logger.



FLUKE-174X-HANGER

Hanger Kit includes strap and magnetic hanger used with 174X Series.

Power Quality Accessories





C17XX Soft Case Soft Case for 173X/174X Series

Image Not Available

FLUKE-174X GPS-REC

GPS Receiver Antenna

F17XX CABLE MARKERS

Cable Marker Kit for 173X, 174X and 177x Series



BP1730-BATTERY

173X & 174X Series Replacement Battery Pack



1730-CABLE Auxiliary Input Cable

- Input -10 V to +10 V DC
- Binder to BNC connecting cable



17XX AUX

Auxiliary input adapter for 1740 Series



Unit Upgrade Kits

Upgrades your select 17XX Fluke unit to the specified higher end unit and includes accessories that would normally come with the upgraded model.

- 1732 to 1734 Upgrade Kit
- 1736 to 1738 Upgrade Kit
- 1742 to 1746 Upgrade Kit
- 1742 to 1748 Upgrade Kit
- 1746 to 1748 Upgrade Kit

Fluke 1750/ET



3210-PR-TF-II 1000 A Thin FLEXI 61 cm (24 in)

1000 A AC Current Range

• 61 cm (24 in) length, 20 cm (7.8 in) diameter



3310-PR-TF-II 1000 A Thin FLEXI 61 cm (24 in)

5000 A AC Current Range

• 61 cm (24 in) length, 20 cm (7.8 in) diameter



3312-PR-TF-II 1000 A Thin FLEXI 122 cm (48in)

5000 A AC Current Range

 122 cm (48 in) length, 38 cm (15 in) diameter



I5S-PR 1750, 5 A Current Clamp

5 A AC current range

• 15 mm (0.6 in) jaw size



I40S-PR 1750. 40 A CURRENT CLAMP

- 40 A AC Current Range
- 15 mm (0.6 in) jaw size



3140R AC CURRENT CLAMP 4000 A AC Current Range



1750/CASE Transit Case

Rugged-hard water tight transit case with rollers



TPS FLEX 18-TF-II Thin Flexible Current Probe

100 A/500 A AC current range

• 45 cm (17.7 in) length, 15 cm (5.9 in) diameter

TPS FLEX 24-TF-II Thin Flexible Current Probe

200 A/1000 A AC current range

• 61 cm (24 in) length, 20 cm (7.8 in) diameter

TPS FLEX 36-TF-II Thin Flexible Current Probe

3000 A/6000 A AC current range

• 91 cm (36 in) length, 29 cm (11.4 in) diameter



TPS Clamp 10 A/1 A Clip-on Current Transformer

Three 15 mm (0.6 in) options available

- TPS Clamp 10 A/1 A Clip-on Current Transformer - 1 A/10 A AC
 TPS Clamp 200 A/20 A Clip-on
- TPS clamp 200 A/20 A Chp-on Current Transformer – 20 A/200 A AC
 TPS Clamp 50 A/5 A Clip-on Current
- Transformer 5 A/50 A AC

Fluke NORMA 6000



80I-2010S Current Clamp

Measure up to 2000 A AC and/or DC on large conductors with 0.8% accuracy

• 81.5 mm (3.2 in) jaw opening

80I-2010S/3PK Current Clamp

3 pack. Measure up to 2000 A AC and/ or DC on large conductors with 0.8% accuracy.

VIBRATION AND ALIGNMENT

Fluke 805 FC Vibration Meter



805ES External Sensor Assembly

- External vibration sensor that is ideal in situations where it is either difficult or impractical to use the onboard vibration sensor tip of the 805 Vibration Meter
- Low-profile 90-degree sensor body allows the sensor to get into tight spots
- Rugged, coiled cable minimizes dangling, while stretching to more than 2.1 m (7 ft) when needed
- Powerful "U" shaped magnet mount creates a firm connection to flat, or curved measurement surfaces

Fluke 810 Vibration Tester



810QDC Quick Disconnect Cable

2.4 m (8 ft) quick-disconnect cable connects the triaxial vibration sensor



810SC-20 Sensor Cable

6.1 m (20 ft) cable connects the triaxial vibration sensor to the Fluke 810 Vibration Tester



810S Triaxial Vibration Sensor

Triaxial vibration sensor captures vibration data in all three primary axes simultaneously for faster, more accurate data collection



810SMM Sensor Magnetic Mounts

- High-power magnet attaches firmly to motors and machinery
- Parallel magnet tips engage both flat and cylindrical surfaces



810SMP Sensor Mounting Pads for Vibration Sensors (pack of 10)

10-pack of Sensor Mounting Pads provide standardized sensor attachment points on critical equipment.



810T Tachometer

- Noncontact tachometer for use with the Fluke 810 Vibration Tester; to measure the speed of motors; conveyor belts; and other moving and rotational systems
- Measures from 6 to 99999 rpm with accuracy to +/-0.05%
- Takes noncontact measurements using a laser beam that works at a distance of 1 to 100 cm for user safety
- Integral 50 cm cable connects the tachometer to the vibration tester for power and measurement data recording



810PAAC Power Adapter

AC power adapter with international plug set



SBP810 Smart Battery Pack

Lithium-ion battery pack provides eight hours of runtime under normal operating conditions

Fluke 830 Laser Alignment



830/MAGNET Compact Sensor/Prism Magnetic Mounting Bracket Set

- High-power magnets attach firmly to shaft couplings
- Narrow profile can mount on equipment with little clearance between the coupling and the machine housing
- Ideal for large-diameter couplings or for the simplest, most rapid set-ups



830/SHIMS Precision Alignment Shim Kit

- Stainless steel precut shims are more accurate and designed to speed up the alignment job, when even minutes of downtime count.
- Burr-free for higher accuracy in alignment
- Time-saving permanent thickness/ dimension marking
- Reusable, corrosion-resistant highquality stainless steel
- Two machine foot sizes and eight thicknesses that fit almost all machine feet

PROCESS CALIBRATION ACCESSORIES



700PTPK2 Pneumatic Test Kit

- Combine with any Fluke 700G Series Gauge, 1000 psi (69 bar) or less, to make a complete pressure testing kit
- Generate pressure up to 600 psi, 40 bar with the 700PTP-1 Test Pump
- Connect the 700G Series Gauge directly to the included PTP-1 Hand Pump



700HTPK/2 Hydraulic Test Kit

- Combine with any Fluke-700G Series Gauge, 1000 psi (69 bar) range or greater, to make a complete pressure testing kit
- Generate pressure up to 10000 psi, 690 bar with the included 700HTP-2 Test Pump
- Connect the 700G Series Gauge directly to the HTP-2 Hand Pump



700LTP-1 Low Pressure Test Pump

• Hand-operated pressure pump designed to generate either vacuum to

-13 psi / -0.90 bar or pressure to 100 psi / 6.9 bar

- Has two pressure ports with quick fit connectors
- For use with Fluke 750 Series Pressure Modules and Fluke 717 Pressure Calibrators



700PTP-1 Pneumatic Test Pump

A handheld pressure pump designed to generate either vacuum to -11.6 psi/-0.8 bar or pressure to 600 psi/40 bar



700HTP-2 Hydraulic Test Pump

- Generate pressure up to 10000 psi/700bar
- Use the Fluke 700PRV adjustable relief valves to limit pressure from 1360 psi to 5450 psi



71XTrap Liquid and Dirt Trap

- Works with pressure up to 500 psi
- Designed to work with the Fluke 718 and 719PRO



71X, Hose An

- Compatible with Fluke 717 and 718 Calibrators 100 psi and below
- Kit contains three translucent hoses (1 m long) and one 1/a to 1/4 NPT female-female adapter



700ILF In-line Filter

- Can be used to isolate the calibrator from incidental contact with fluids
- Useful with the 718 Fluke Calibrator to help keep moisture or oils from contaminating the on-board pump



700HTH-1 Hydraulic Test Hose

10000 psi, 690 bar working pressure test hose



700PMP Pressure Pump

- Provides pressure up to 150 psi/1000 kPa
- Output fitting is 1/8 FNPT



720RTD RTD Probe

Fluke-720RTD Temperature Probe is for use with Fluke 721 Precision Pressure Calibrators and Fluke 719Pro Electric Pressure Calibrators

 10 inch (254 mm) insertion depth with ¼ inch (6.3 mm) diameter stainless steel sheath



720URTDA Universal RTD Adapter

Fluke Universal RTD Adapter 720URTDA for Fluke 721 Precision Pressure Calibrators and Fluke 719Pro Electric Pressure Calibrators



Fluke-700TTH5K Premium Test Hose Kit

Easy to use premium pressure transmitter test hose kit for connection to 1/4" female metric/BSP

- 5000 psi rating
- Includes 6 mm (1/4 in) NPT connection for permanent mount to a calibrator or test pump



Fluke-700TTH10K Premium Test Hose Kit

Easy to use premium pressure transmitter test hose kit for use with female M20 connections

• 6 mm (1/4 in) NPT

Includes:

- One (1) 10000 psi rated, premium test hose
- Premium, no tools required M20 adapter



700-IV Current Shunt

- Conversion factor: 10 mV = 1 mA
- Accuracy (% of input, one-year): 0.02%
- Input current: 0 mA to 55 mA
- Input resistance: 250 Ω nominal
- Output resistance: 10 Ω nominal



700PRV Pressure Relief Valve Kit

- Consists of a relief valve settable from 725 to 5800 PSI (50 to 200 bar) to be used with the 700HTP-1 Hydraulic Test Pump
- The 3 mm (1/8 in) NPT male thread to fit directly into the Fluke 700HTP-1 Pressure Pump



BP7235 NiMH Battery Pack

- 7.2V 3500 mAh rechargeable NiMH battery pack
- Provides typical 16-hour battery life when used in 700 or 740 Calibrator
- Dimensions: 150 × 56 × 22 mm (5.9 × 2.2 × 0.8 in)
- Weight: 310 g (11 oz)



BP7240 Li-Ion Battery Pack

Battery pack for Fluke 75X
 Documenting Process Calibrators











Models	P/N 803293 11A 1000V	PN 943121 440 mA, 1000 V	P/N 2279339 315 mA 1000V	P/N 4016494 440 mA fuse assembly
107, 115, 117, 233	•			
175, 177, 179, 83V, 87V, 287, 289. 27 II, 28 II, 88V, 77 IV, 87V MAX	•	•		
3000 FC, 1577, 1587 FC BT508, BT510, BT521		•		
787, 787B, 789		• qty 2		
1503, 1507			•	
28 II Ex	•			•



SOFTWARE

Take your Fluke tools even further with the ability to analyze, interrogate remotely, export and create in depth reports on your PC and smart phone via Fluke's extensive software and application library.

Fluke Product Group	Fluke Software	Compatible Fluke Tools	Availability
Industrial imagers and	Fluke Connect™ Desktop	PTi120 Pocket Infrared Camera TiS20+/20+MAX/TiS60+/TiS55+/TiS75+ /Ti200/300+/400/401PR0/450/450PR0/480/480PR0/450 SF6, TIX501/580/620/640/660/1000 Infrared Cameras Fluke ii900/ii910 Acoustic Imager	Free download via www.fluke.com
infrared cameras	Fluke SmartView™	Fluke VT04/VT04A/VT02 Visual Infrared Thermometers TiS10/20/40/45/50/55/60/65/75 Ti200/300/400/450/450PR0/480/480PR0 Ti450/SF6, TiX500/520/560/580/620/640/660/1000 Infrared Cameras	Free download via www.fluke.com
	Fluke Baseline	Ti300/300+/400/400+/450/401PR0/480/480PR0, TiX500/501/580/520/560 vInfrared Cameras	Free download via www.fluke.com
Fluke Connect™	Fluke SW3000FC	Fluke Connect™ Modules, 3000FC DMM, 902FC, 376FC/375FC/374FC Must be used with PC3000FC USB dongle	Free download via www.fluke.com
ScopeMeters™	FlukeView™ for ScopeMeter™	Fluke 190 Series II ScopeMeters™, Fluke 120 Series ScopeMeter™, Fluke 19xB/C Series, Fluke 2x5C Series,	Sold separately
-	FlukeView™2 for ScopeMeters™ (Sold as SW90W)	Fluke 190 Series III ScopeMeters™ 120B Series ScopeMeters™ MDA-510/550/550-III Motor Drive Analyzer ScopeMeter™	Sold separately
	Energy Analyze Plus	Fluke 1748/1746/1742, Fluke 1738/1736/1734/1732, 1730 Power & Energy Loggers	Free download via www.fluke.com
Power quality tools	PowerLog 430-II	Fluke 438-II/437-II/435-II/434-II Power Quality Analyzers	Free download via www.fluke.com
	PowerLog Classic	Fluke 345, VR1710, 1735 and 435/434/433 Power Quality Analyzers	Free download via www.fluke.com
	Power Analyzer Software	Norma 6000 Series	Free download via www.fluke.com
Battery testers	Battery Management Software	Fluke BT521/BT5210/BT510 Battery Testers	Free download via www.fluke.com
	DPC/TRACK2	Fluke 754/753 Documenting Process Calibrators	Sold separately
Process calibration tools	709H/Track HART™ Communications Software	Fluke 709/H Precision Loop Calibrator with HART	Sold separately
	700G/Track	Fluke 700G Pressure Gauges (with Interface Cable)	Sold separately
Vibration and alignment	Viewer Software	Fluke 810 Vibration Tester	Free download via www.fluke.com
	FlukeView™ Forms Basic FVF-SC5 (no cables included)	Software only, no cable (for all instruments listed below)	
	FlukeView™ Forms Basic FVF-BASIC (with USB/IR cable)	Fluke 289/287 Multimeters, 789/787B ProcessMeters™, 1555/1550B Insulation Resistance Testers, 180 Series Meters	
General meters and testers	FlukeView™ Forms plus Designer FVF-SC2 (with USB/IR cable)	Fluke 1664FC/1663/1662, 1654B/1653B/1653/1652C Multifunction Installation Testers, Fluke 55-II B/53-II B Thermometers	Sold separately
	FlukeView™ Forms plus Designer FVF-SC4 (with USB/Serial cable)	Fluke 8846A, 8845A, 8808A, 45 Bench Digital Multimeters	
	FlukeView™ Forms plus Designer FVF-UG	Software only upgrade, from FlukeView™ Forms Basic to FlukeView™ Forms plus Designer	
Solar data management	Fluke TruTest™ Solar Data Management and Reporting Software	Fluke SMFT-1000 Multifunction PV Tester and Performance Analyzer	Sold separately www.fluke.com

Combo Kits

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Multimeter Kits



Fluke 279 FC/iFlex™ TRMS Thermal **Multimeter Combo Kit**

- 279 FC TRMS Thermal Multimeter • 45.72 cm (18 in) iFlex[™] Flexible
- Current Probe
- TL175 Test Leads
- Rechargeable Lithium-ion Battery and Charger
- Hanging Strap
- Soft Carrying Case



Fluke 287/289 FlukeView™ Forms **Combo Kit**

- Fluke 287/289 True-RMS Electronics Logging Multimeter
- FlukeView[™] Forms Software and Cable
- 80BK-A Thermocouple Probe
- TL224 Test Leads with 175 Modular Probe Tips
- AC175 Alligator Clips
- TL71 Probe Caps
- C280 Soft Case



Fluke 287/289 FlukeView™ Forms **Combo/ with IR Connector**

- Fluke 287/289 True-RMS Industrial Logging Multimeter
- FlukeView[™] Forms Software with Cable
- 80BK-A Thermocouple Probe
- TL71 Silicone Test Lead Set
- AC175 Alligator Clips
- TPAK Magnetic Hanging Kit
- C280 Soft Case
- Fluke IR 3000FC Connector
- AMP Jack Plugset



Fluke 87V/E2 Industrial Electrician **Combo Kit**

- Fluke 87V True-RMS Industrial Multimeter
- TL224 Silicone Test Leads
- AC220 Alligator Clips
- TP238 Test Probes
- TPAK Magnetic Hanging Kit
- 80BK-A Thermocouple Probe
- C35 Soft Meter Case

Fluke 87V Industrial Multimeter Service Kit

- Fluke 87V Industrial Multimeter
- Fluke i400 400 A AC Current Clamp
- 80BK-A Temperature Probe
- TL75 Test Lead Set
- AC175 Alligator Clip Set



Fluke 87V MAX Electrician Combo Kit

- Fluke 87V MAX True-RMS Digital Multimeter
- TL224 SureGrip[™] Insulated Test Leads
- AC220 SureGrip™ Alligator Clips TL238 SureGrip™ Test Probes
- ToolPak™ Magnetic Meter Hanging Kit
- 80BK-A Temperature Probe •
- C35 Soft Carrying Case



Fluke 88V/A Automotive Multimeter **Combo Kit**

- Fluke 88V Automotive Multimeter
- **TL224 Silicone Test Leads** •
- AC285 Alligator Clips
- **TP220** Test Probes
- RPM 80 Inductive RPM
- TPAK ToolPak[™] Magnetic Meter Hanging Kit
- 80BK-A Thermocouple Probe
- Ti10 Soft Carrying Case
- Holster
- 9V Battery (installed)
- Two Automotive Back Probe Pins
- Insulation Piercing Probe



Fluke 116/323 HVAC Combo Kit

- Fluke 116 HVAC Multimeter
- Fluke 323 Clamp Meter
- TL175 Test Lead Set
- TPAK Magnetic Hanging Kit
- 80PK-1 Bead Probe
- 80AK-A Thermocouple Adapter
- 80PK-1 Flexible Cuff Pipe Clamp Thermocouple
- C115 Deluxe Soft Carrying Case with Shoulder Strap



Kits

Fluke 116/62 MAX+ HVAC Technician's Combo Kit

- Fluke 116 HVAC Multimeter •
- Fluke 62 MAX+ Infrared Thermometer
- TL175 Test Lead Set
- TPAK Magnetic Hanging Kit •
- 80BK-A Thermocouple Probe
- 80AK-A Thermocouple Adapter
- 80PK-11 Flexible Cuff Pipe Clam Thermocouple
- C115 Deluxe Soft Carrying Case with Shoulder Strap



Fluke 117/323 Electricians' **Multimeter Combo Kit**

- Fluke 117 True-RMS Multimeter
- Fluke 323 Clamp Meter
- TL175 Test Lead Set
- TPAK Magnetic Hanging Kit
- · C115 Deluxe Soft Carrying Case with Shoulder Strap



Fluke 179/EDA2 Industrial **Electronics Combo Kit**

AC280 SureGrip[™] Hook Clips

TL910 Electronic Test Probes

Fluke 179 Industrial Multimeter

Fluke 179 True-RMS Multimeter

Fluke 289 Industrial Multimeter

Fluke 289 True-RMS Multimeter

• AC175 Alligator Clip Set

• Fluke i400 400 A AC Current Clamp • TL71 Flexible Silicone Test Lead Kit

Fluke Kits

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TL75 Test Lead Set

AC175 Alligator Clip Set

Fluke 323 True-RMS Camp Meter 80BK-A Temperature Probe

- Fluke 179 Multimeter
- 80BK-A Integrated DMM Temperature Probe

TL224 SureGrip[™] Insulated Test Leads

TPAK ToolPak[™] Magnetic Meter Hanger

Installed 9V Battery

Soft Carry Case

Service Kit

Service Kit

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Multimeter Kits



Fluke 3000 FC General **Maintenance System**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke v3000 Voltage Module
- Fluke v3001 Voltage Module
- Fluke a3001 FC Wireless iFlex[™] AC
- TL224, TL222, TL175 Test Leads
- AC285, AC220, AC175 Alligator Clips • iFlex™ i2500-10 Flexible Current
- Probe
- Magnetic Hanging Strap (3)
- Fluke Connect[™] Wireless PC Adapter
- ٠ Modular 3-Compartment Soft Carry Case



Fluke 3000 FC Industrial System

- Fluke 3000 FC Series Wireless Multimeter
- Fluke a3001 FC Wireless iFlex[™] AC (3)
- Fluke v3000 Voltage Module
- TL224 Test Leads ٠
- TL175 Test Leads
- AC285 Alligator Clips
- AC175 Alligator Clips
- iFlex™ i2500-10 Flexible Current • Probe (3)
- Magnetic Hanging Strap (4)
- Fluke Connect™ Wireless PC Adapter
- Modular 3-Compartment Soft Carry Case



Fluke 3000 FC HVAC System

- Fluke 3000 FC Series Wireless Multimeter
- Fluke a3000 FC Wireless AC
- Fluke t3000 Thermocouple
- Thermometer TL175 Test Leads
- AC175 Alligator Clips
- 80PK-1 K-Type Bead Thermocouple •
- Magnetic Hanging Strap
- Fluke Connect[™] Wireless PC Adapter
- Modular 3-Compartment Soft Carry Case



Fluke 3000 FC/1AC-II Wireless **Multimeter and Non-Contact Voltage Detector Kit**

- Fluke 3000 FC Series Multimeter
- Fluke 1AC-II VoltAlert[™] Tester •
- TL224 Test Leads
- TP175 Industrial Test Probes
- AC220 Alligator Clips
- C35 Soft Meter Case

Fluke Kits

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TPAK Magnetic Hanging Kit



Fluke 3000 FC/TPAK Wireless **Multimeter and Magnetic Hanger Combo Kit**

- Fluke 3000 FC Series Wireless Multimeter
- TL75 Test Leads
- C35 Soft Meter Case
- **TPAK Magnetic Hanging Kit**



Fluke 3000FC/EDA2 Combo Kit

- 3000 FC Series Wireless Multimeter
- TL910 Electronic Test Probes
- TL224 Silicone Test Leads
- AC280 Heavy Duty Hook Clips
- C35 Soft Meter Case
- ToolPak[™] Magnetic Hanging Kit



Fluke a3000 FC Wireless AC Current **Clamp** Kit

- Fluke 3000 FC Series Wireless Multimeter
- Fluke a3000 FC Wireless AC Current Clamp Module
- TL175 Test Leads
- AC175 Alligator Clips
- Modular 3-Compartment Soft Carry Case



Fluke a3001 FC Wireless iFlex™ AC **Current Clamp Kit**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke a3001 FC Wireless iFlex[™] AC Current Module
- TL175 Test Leads •
- AC175 Alligator Clips
- iFlex[™] i2500-10 Flexible Current • Probe
- Magnetic Hanging Strap
- Modular 3-Compartment Soft Carry Case



Fluke Wireless t3000 FC Temperature Kit

- Fluke 3000 FC Series Wireless Multimeter
- Fluke t3000 K-Type Thermocouple
- Thermometer TL175 Test Leads
- AC175 Alligator Clips
- 80PK-1 K-Type Bead Thermocouple • Other K-Type Temperature Probes also
- available
- Magnetic Hanging Strap
- Modular 3-Compartment Soft Carry Case



Fluke Wireless v3000 FC **AC Voltage Kit**

- Fluke 3000 FC Series Wireless Multimeter
- Fluke v3000 AC Voltage Module
- TL175 Test Leads
- TL224 Test Leads
- AC175 Alligator Clips
- AC285 Alligator Clips
- Magnetic Hanging Strap
- Modular 3-Compartment Carry Case



Fluke Wireless v3001 FC **DC Voltage Kit**

• TL175 Test Leads

TL222 Test Leads

Carry Case

Measurement Kit

• TL175 Test Leads

TL222 Test Leads

TL224 Test Leads

Carry Case

• AC175 Alligator Clips

AC285 Alligator Clips

AC220 Alligator Clips

 Magnetic Hanging Straps (2) • Modular 3-Compartment Soft

• AC175 Alligator Clips

• AC220 Alligator Clips

• Magnetic Hanging Strap

• Modular 3-Compartment Soft

Fluke v3003 FC Wireless AC-DC Voltage

• Fluke 3000 FC Series Wireless Multimeter

• Fluke v3000 AC Voltage Module

Fluke v3001 DC Voltage Module

• Fluke 3000 FC Series Wireless Multimeter Fluke v3001 DC Voltage Module

Tester Kits

Kits

Renewable Energy Tester Kits

SOLAR:

Fluke 393 FC Clamp Meter and MC4 **Test Leads Bundle**

Fluke 393 FC Clamp, IRR1 Irradiance Meter, MC4 Test Leads Bundle

Fluke 87V MAX DMM and PVLEAD1 **MC4 Test Leads Bundle**

Electric Vehicle Charging Test Kits

Fluke FEV100 EV Charging Station Test



Fluke T6-600/62MAX+/1AC Kit

- Fluke T6-600 Electrical Tester
- Fluke 62MAX+ Infrared Thermometer •
- Fluke 1AC-II VoltAlert[™] Tester
- C60 Soft Case

Insulation Tester Kits



Fluke 1550C 5 kV Insulation Tester Kit

- Fluke 1550C Insulation Resistance
- Tester TL1550B Alligator Clips and Test
- Lead Set
- TLK1550 Heavy Duty Alligator and Test Lead Set
- FlukeView[™] Forms Basic CD
- Infrared Adapter to USB Cable
- IP67 Hard Case
- AC Power Cord



Fluke 1550C Insulation Tester Kit w/ ir3000 FC

- Fluke 1550C 5 kV Insulation Tester
- Fluke ir3000 FC Connector
- Test cables with alligator clips
- IP67 Hard Case



Fluke 1623-2 GEO Earth Ground **Tester Kit**

- Fluke 1623-2 GEO Earth Ground Tester
- GEOX Probe Cable
- EI-1623 Clamp Set
- 3 Cable Reels
- 4 Earth Ground Stakes
- C1620 Carrying Case



Fluke 1625-2 GEO Earth Ground **Tester Kit**

- Fluke 1623-2 GEO Earth Ground Tester
- GEOX Probe Cable
- EI-1623 Clamp Set
- 3 Cable Reels
- 4 Earth Ground Stakes
- C1620 Carrying Case

Adapter Type 1 Connector Plug (SAE J1772)

- Fluke 87V Digital Multimeter
- Fluke TL224 Test Leads

FLK-FEV100/TY1 KIT

FLK-FEV100/TY1 KIT2

- Fluke FEV100 EV Charging Station Test Adapter
- Type 1 Connector Plug (SAE J1772)
- Fluke 125B ScopeMeter[®]
- Fluke 87V Digital Multimeter
- Fluke TL224 Test Leads

Electrical Tester Kits



Fluke T6-1000/PRV240FS Kit

- Fluke T6-1000 Electrical Tester
- Fluke PRV24OFS Proving Unit with
 - FieldSense™
- C60 Soft Case



Fluke T6-HT6-1AC Kit

- Fluke T6-1000 Electrical Tester
- Fluke 1AC-II VoltAlert[™] Tester
- H-T6 Holster

- Fluke 1587 FC 2-in-1 Insulation Multimeter
- Fluke i400 Current Clamp
- Fluke 62 MAX+ Infrared Thermometer
- TP165X Remote Test Probe
- TL224 Test Leads •
- AC285 Alligator Clips
- 80BK-A Thermocouple Probe
- Hard Case



Fluke 1587/MDT FC Advanced Motor and Drive Troubleshooting Kit

- Fluke 1587 FC 2-in-1 Insulation Digital Multimeter
- Fluke i400 Current Clamp
- Fluke 9040 Phase Rotation Indicator
- TP165X Remote Test Probe
- TL224 Test Leads
- AC285 Alligator Clips
- 80BK-A Thermocouple Probe
- Hard Case



Multimeter Fluke i400 Current Clamp TP165X Remote Test Probe

- TL224 Test Leads
- AC285 Alligator Clips
- 80BK-A Thermocouple Probe
- Hard Case

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Fluke 1587 FC Advanced Electrical



Troubleshooting Kit



Insulated Hand Tool Kits



Kits



Fluke Insulated 7 Unit Screwdriver Kit (IKSC7)

- ISLS3 Insulated Slotted Screwdriver 2.5 mm, 75 mm
- ISLS5 Insulated Slotted Screwdriver 4 mm, 100 mm
- ISLS8 Insulated Slotted Screwdriver 6 mm, 125 mm
- IPHS1 Insulated Phillips Screwdriver #1, 75 mm
- IPHS2 Insulated Phillips Screwdriver #2, 100 mm
- ISQS1 Insulated Squared Screwdriver #1, 100 mm
- ISQS2 Insulated Squared Screwdriver #2, 125 mm



Fluke Insulated 3 Unit Pliers Kit (IKPL3)

- INLP8 Insulated Long Nose / w Side Cutter
- INDC8 Insulated Heavy Duty Diagonal Cutter
- INCP8 Insulated Linesman Combination Plier
- RUP8 Roll Up Pouch



Fluke Insulated Hand Tools Starter Kit (IKST7)

- ISLS3 Insulated Slotted Screwdriver 2.5 mm, 75 mm
- ISLS5 Insulated Slotted Screwdriver 4 mm, 100 mm
- ISLS8 Insulated Slotted Screwdriver 6 mm, 125 mm
- IPHS1 Insulated Phillips Screwdriver #1, 75 mm
- IPHS2 Insulated Phillips Screwdriver #2, 100 mm
- INLP8 Insulated Long Nose / w Side Cutter
- INDC8 Insulated Heavy Duty Diagonal Cutter
- INCP8 Insulated Linesman Combination Plier
- RUP8 Roll Up Pouch



Fluke Pack30 Professional Tool Backpack + Insulated Hand Tools Kit (IKPK7)

- Fluke Pack30 Professional Backpack
- ISLS3 Insulated Slotted Screwdriver
- ISLS5 Insulated Slotted Screwdriver
- ISLS8 Insulated Slotted Screwdriver
- IPHS1 Insulated Phillips Screwdriver
- IPHS2 Insulated Phillips Screwdriver
 INLP8 Insulated Long Nose /
- w Side Cutter
- INDC8 Insulated Heavy Duty Diagonal Cutter
- INCP8 Insulated Linesman Combination Plier
- RUP8 Roll Up Pouch



Fluke T6-1000 Electrical Tester + Insulated Hand Tools Kit (IBT6K)

- Fluke T6-1000 Electrical Tester
- ISLS3 Insulated Slotted Screwdriver
- ISLS5 Insulated Slotted Screwdriver
- ISLS8 Insulated Slotted Screwdriver
- IPHS1 Insulated Phillips Screwdriver
- IPHS2 Insulated Phillips Screwdriver
- INLP8 Insulated Long Nose /
- w Side Cutter • INDC8 Insulated Heavy Duty Diagonal Cutter
- INCP8 Insulated Linesman Combination Plier
- RUP8 Roll Up Pouch



Fluke 117 Electrician's Multimeter + Insulated Hand Tools Kit (IB117K)

- Fluke 117 Electrician's Multimeter
- ISLS3 Insulated Slotted Screwdriver
- ISLS5 Insulated Slotted Screwdriver
- ISLS8 Insulated Slotted Screwdriver
- IPHS1 Insulated Phillips Screwdriver
- IPHS2 Insulated Phillips Screwdriver
- INLP8 Insulated Long Nose / w Side Cutter
- INDC8 Insulated Heavy Duty Diagonal Cutter
- INCP8 Insulated Linesman Combination Plier
- RUP8 Roll Up Pouch



Fluke 87V Industrial Multimeter + Insulated Hand Tools Kit (IB875K)

- Fluke 87V Industrial Multimeter
- ISLS3 Insulated Slotted Screwdriver
- ISLS5 Insulated Slotted Screwdriver
- ISLS8 Insulated Slotted Screwdriver
- IPHS1 Insulated Phillips Screwdriver
- IPHS2 Insulated Phillips Screwdriver
- INLP8 Insulated Long Nose / w Side Cutter
- INDC8 Insulated Heavy Duty Diagonal Cutter
- INCP8 Insulated Linesman Combination Plier
- RUP8 Roll Up Pouch



Fluke 376 FC True-RMS Clamp Meter + Insulated Hand Tools Kit (IB376K)

- Fluke 376 FC AC/DC Clamp Meter
- iFlex[™] Flexible Current Probe
- TPAK Magnetic Hanging Strap
- TL75 Test Leads
- ISLS3 Insulated Slotted Screwdriver
- ISLS5 Insulated Slotted Screwdriver
- ISLS8 Insulated Slotted Screwdriver
- IPHS1 Insulated Phillips Screwdriver
- IPHS2 Insulated Phillips Screwdriver
- INLP8 Insulated Long Nose / w Side Cutter
- INDC8 Insulated Heavy Duty Diagonal Cutter
- INCP8 Insulated Linesman Combination Plier
- RUP8 Roll Up Pouch

Other Kits

Infrared Thermometer Kits



Fluke 417D/62MAX+ Laser Distance Meter/Infrared Thermometer Combo Kit

- Fluke 417D Laser Distance Meter
- Fluke 62 MAX+ Infrared Thermometer

Indoor Air Quality Kits



Fluke 922 Airflow Meter/ Micromanometer Kit

- Fluke 922 Airflow Meter
- 12 inch Pitot Tube
- Two Rubber Hoses
- TPAK Magnetic Strip
- TPAK Strap, 9 inches
- TPAK Latch Tab
- User Manual
- Hard Carrying Case

Process Calibration Kits



Fluke 700PTPK Pneumatic Test Pump Kit

- 700PTP-1 Pneumatic Hand Pump
- Hose Kit (1) and Adapters
- Hard Case



Fluke 700HTPK Hydraulic Test Pump Kit

- 700HTP-2 Hydraulic Hand Pump
- Hose Kit (1) and Adapters
- Hard Case



Fluke 700PTPK2 Premium Pneumatic Test Pump Kit

- 700PTP-1 Pneumatic Hand Pump
- Premium, "no tools required" Gauge Connector
- Premium Transmitter Test Hose Kit (1) and Adapters
- Hard Case



Fluke 700HTPK2 Premium Hydraulic Test Pump Kit

- 700HTP-2 Hydraulic Hand Pump
- Premium, "no tools required" Gauge Connector
- Premium Transmitter Test Hose Kit (1) and Adapters
- Hard Case



Fluke Connect™ 789 ProcessMeter™ and Temperature Kit

- Fluke 789 ProcessMeter[™]
- Fluke t3000 FC Wireless K-Type Temperature Module
- Fluke ir3000 FC Connector
- TL71 Premium Test Lead Set
- AC72 Alligator Clips
- 4 AA Alkaline Batteries (installed)
- User Manual
- Quick Reference Guide

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Cabling, whether it is copper or fiber optic, is a major cause of downtime on time-sensitive industrial networks. Losing just a few data packets in a short time can cause a machine to shut down. This is especially true in industrial environments, where network cables are exposed to vibration, flexing, moisture, temperature changes and electromagnetic interference (EMI) from motor drives and other devices.

PROFESSIONAL DATA COMMUNICATION TOOLS AND TESTERS

COPPER CABLE TROUBLESHOOTING AND CONNECTIVITY

MicroScanner[™] Industrial Ethernet **Cable Verifier**

- Graphically displays length, wiremap, opens/ shorts and distance to fault
- Detects the class (0-8) from PoE, PoE+ and PoE++ (802.3at/af/bt) switches
- Identifies presence and speed of an active switch connected to the cable
- Tests RJ-45 connections and includes adapters for M8D, M12D, and M12X connectors

Search for: MS2-100-IE, MS-POE-IE



LinkIO[™] Industrial Ethernet Cable + Network Tester

- Cable Performance testing up to 10GBASE-T via frequencybased measurements
- Network features including: IPv4 and v6 ping, nearest switch diagnostics (IP address, name, port / VLAN number, and advertised data rates)



- Ethernet Alliance certified PoE Verification – Detects the PoE class (1-8) and power, and performs a load test of available PoE from the connected switch
- Displays cable length, wire map, and distance to open or short
- Manage results and print reports from LinkWare™ PC
- Tests RJ-45 connections and includes adapters for M8D, M-12D, and M-12X

Search for:

LIQ-100, LIQ-100-IE, LIQ-KIT, LIQ-KIT-IE

SOLUTIONS FOR FIBER OPTIC CONTAMINATION

The #1 problem affecting Industrial Ethernet fiber cables.

FI-500 FiberInspector[™] Micro

- PortBright[™], a built-in flashlight illuminates dark areas
- Autofocus for stable images in seconds
- Large display to view fiber endfaces
- Includes 4 UPC tips (LC, SC, 1.25 mm and 2.50 mm)
- APC, Bulkhead tips available
- Autocenter for precise fiber ferrule inspection



Fiber Optic Cleaning Kits



The complete solution for precision end-face fiber optic cable cleaning



Search for: NFC-Kit-Case, NFC-Kit-Box

FEATURED COPPER CABLE TEST SOLUTIONS

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	Pro 3000	IntelliTone™ Pro	Micro- Mapper	TS100	MS2-100 MS2-100-IE	MS-POE MS-POE-IE	LIQ-100 LIQ-100-IE
Switch Port Testing							
Switch presence		1			1	1	1
Identify switch name, port ID and VLAN							 Image: A second s
Identify Ethernet Speed to 10 Gb/s						 Image: A second s	<i>✓</i>
Identify PoE Capability						1	\checkmark
Cable Verification							
Digital toning		1			1	1	1
Analog toning	✓	1	1	1	✓	1	✓
Cable wire map		1	1		Graphical	Graphical	Graphical
Cable length				1	<i>✓</i>	√	1
Qualify cabling speed (10/100/1000/10G)							1
Cable Troubleshooting							
Identify open/short	✓	1	1	1	1	1	1
Distance to open/short				1	1	1	1
Identify crosstalk fault							1
Identify impedance fault							1



MS-POE-KIT

MicroScanner[™] PoE Cable Verifier

- PoE Switch Verification Determine if a switch port can provide enough power by reporting PoE class (0-8).
- Powered Pairs Graphically identifies powered pairs. Including Dual Signature where the switch port delivers power on 2 or 4 pairs (802.3bt or PoE ++).
- Active Switch Detection Determine if a cable is connected to a switch port and port speed up to 10G.
- Cable Testing Identify any shorted, open or crossed wires at both ends, length of each pair, and send tones to find cables.
- PoE Injector verification Display injector voltage level
- IE model tests common connector types including RJ11, RJ45, Coax, and Industrial Ethernet connector types (M12X, M12D, and M8D)



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networks.

FEATURED COPPER CABLE TEST SOLUTIONS



Pro3000[™] Analog Tone and Probe

- Tone and trace on non-active networks
- Identify exact pair with SmartTone[™] technology and five distinct tones
- Loud speaker on probe easy to hear through drywall, wood, and other material
- Clear Innovative filter technology blocks interference ("buzz") that makes tracing difficult ("F" models only)
- Clips allow easy access to individual pairs and RJ11 easily connects to telephone jacks—no need for adapters



PR03000F60-KIT Tone and Probe Kit



TS™100 Cable Fault Finder

- Numeric distance display
- Identify pairs with SmartTone $^{\scriptscriptstyle \rm M}$ generation technology
- Identify and locate distance to opens and shorts
- Works on any two or more conductor cable up to 3000 feet (915 metres)



26500000 TS100 with BNC to Alligator Clips



IntelliTone[™] Pro 200 LAN Tone and Probe

- Digital toning eliminates noise and false signals
- SmartTone[™] analog toning isolates individual wire pairs
- Locates cables safely and effectively on active networks
- Visible end-to-end continuity test
- Built in wire mapper
- Works on twisted pair, audio, and video cabling



MicroMapper™

- Simple verification of wiremaps and identification of faults with LEDs
- Tests twisted pair cables for open circuits, shorts, crossed pairs, reversed pairs and split pairs
- Remote identifier enables one-person testing
- Built-in tone generator for tracing installed cables hidden in walls, floors and ceilings. Works with Pro3000[™] Tone and Probe (sold separately)



186 Fluke Networks

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TELEPHONE TEST SET COMPARISON

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		V	4.	\$			
	TS™54 TDR	TS™52 PRO	TS™22A	TS™22	TS™25D	TS™30	TS™19
TDR to detect shorts, opens, and distance to open	1						
Built-in toner	1						
Display—back lit LCD and glow-in-the- the dark keypad	1	1			LCD only		
Extended range high-impedance DataSafe operation in monitor mode	1	1			1		
Data lockout protection Data lockout override	1	1			1		
DSL/POTS filtering technology	1	1			1		
Low/high voltage indication	1	✓			1		
Low current (mA) indication	1	1			1		
Over voltage and Over current protection	1	1	1	1	1	1	
Two-way speakerphone for true hands- free conversations	✓	✓	✓				
One-way amplified speaker for hands- free monitoring	1	1	1	1	1		
Waterproof—exceeds American Military Spec. MIL-STD-810E	✓	1					
DropSafe—passes 20 foot (6 meter) drop test onto concrete	✓	✓	1	1		✓	
Polarity indication in talk mode	1	1	1	1	1	1	1
Stores nine 18-digit numbers in repertory dialer (speed dialing)	1	✓	1	1	1		

4-, 6-, and 8-Wire Modular Adapters

- Easily complete testing and obtain circuit access on working lines without disrupting service
- Clear circuit markings on the sides and bottom of the unit
- Test line status with the 4-wire modular adapter



Model	Description
10113000	4 wire
10210100	4-wire in-line
10210101	4-wire in-line with K-Plug
10220100	6-wire in-line
10220101	6-wire in-line with K-Plug
10230100	8-wire in-line
10230101	8-wire in-line with K-Plug

TERMINATION TOOLS AND ADAPTERS

Ergonomic design, high-quality materials and Fluke Networks quality for separating, stripping and cutting wire. Perfect tools for your every job.

		Y	68			R.
	Modular Crimper	Need-L-Lock [™] Crimping Pliers	D-Snips™	Cable Strippers	Probe Pic	Can Wrenches
SKU	11212530	11294000	44300000	44210015	44600000	44007000



D914[™] Series Impact Tools

- Hook, spudger and blade storage tools are built into the handle
- Select low impact for 24/26 gauge wire or high impact for 22-gauge wire
- Optional Phillips-head or flat screwdriver blade
- Supports a variety of torque tool bits and sockets
- Easy blade insertion, locks in place
- D914S features soft touch rubber handle and ergonomic design

O Search for:

10061501 D914S impact tool with EverSharp 110, Ever-Sharp 66 blade and free blade

Punchdown Blades

Model	Description
10176500	EverSharp 110 blade
10178600	EverSharp 110/66 cut blade
10056500	EverSharp 66 blade
10565000	Krone blade
10565110	Krone/110 cut blade
10176000	110 blade
10436001	Centerpunch blade
10465001	3M System D blade
10645001	Wood screw starter punch
10665000	BIX blade
10056000	66 blade
10057000	630 blade
10979002	Blade storage case



JackRapid[™] Punchdown Tool

- Terminate jacks eight times faster than traditional impact tools. The patented design seats and terminates all wires simultaneously. Built-in blade cuts off the excess wire eliminating the need for a secondary trim step
- High-quality, consistent terminations
- Ergonomic design reduces hand fatigue
- Convenient, built-in stripper
- Multiple versions support several jack manufacturers



Pro-Tool[™] Kits

- Ergonomically designed Dur-a-Grip™ pouch for convenient tool storage on belt
- D914[™] and D814[™] industry standard punchdown tools make for solid terminations
- Easy-to-use cable stripper quickly rings and slits many types of cable
- Probe Pic checks for loose or damaged connections
- Cut and strip wire with Electricians' D-Snips[™]
- Three kit combinations available



JackRapid™ModelDescriptionJR-PAN-2For Panduit NK6X88M, NKP5E88MJR-ADC-2For ADC C6a CopperTen™ UTP RJ45 jack and C6 TrueNet™ KM8 UTP RJ45JR-ORT-2For Ortronics™ TJ5E00, TJ600, TJ610JR-SYS-2For Systimax™ MGS400, MGS600, MFP420, MFP520 and Commscope™ UNJ10GJR-LEV-2For Leviton™ 61110, 5G110, 6110GJR-SYS-UNI-1For Systimax MPS100E, C5, M1BH and Commscope UNJ600/500/300JR-LEV-1For Leviton 41106, 41108, 5G108



Calibration, Repairs and Warranty

CalNet®: The European Specialist in Calibration

Fluke has its own calibrations laboratories in the United Kingdom, The Netherlands and Germany, and authorized service partners in most of the other countries in Europe. All These calibration laboratories work together as a single calibration network: CalNet.

CalNet can issue the calibration certificates you need to meet ISO 9000 standards. CalNet guarantees traceability and access to the best calibration facilities the network can offer. Because of constant information exchange and comparing standards within the network, traceability increases while inaccuracy and uncertainty decreases.

CalNet is able to help you meet the calibration needs of not only equipment made by Fluke but also other manufacturers products. It is a network that provides you with some real key advantages:

CalNet laboratories are approved by and traceable to the National Standards Institutes.

Each Laboratory is a link in the chain of an active network. Sharing information, expertise and the same quality standards.

The need for calibration is directly related to the specific tasks performed by your equipment. CalNet is able to provide you with the services tailored to your need which include:

Perform verification check for simple test equipment. The CalNet sticker placed on your instrument after testing guarantee that it operates as specified.

CalNet Certificate including a calibration report. When you need to know the exact results of the calibration.

National calibration certificate if you need direct traceability to the National Standards Institutes.

CalNet offers complete inventory and maintenance management of your installed test and measuring equipment including equipment of other manufacturers. One address for all your equipment maintenance and service needs.

Repair services

Fluke's Customer Support Services group is dedicated to a single goal: Provide the best possible service for both our products and our customers. Learn about repair services and replacement parts, which are available through our network of global certified service centers.

Limited Lifetime Warranty

Lifetime is defined as seven years after Fluke discontinues manufacturing the product, but the warranty period shall be at least ten years from date of purchase; (Lifetime Warranty applies to products manufactured after October 1996).



The warranty does not cover manuals, fuses, disposable batteries, damage from neglect, misuse, contamination, alteration, accident or abnormal conditions of operation or handling, including failures caused by use outside of the product's specifications, or normal wear and tear of mechanical components. This warranty covers the original purchaser only and is not transferable.

Fluke Warranty

Fluke obligations regarding product warranties are outlined on the Fluke website at **fluke.com/warranty**

Fluke's warranty will always apply to Fluke branded products imported or supplied by Fluke.

- 1. Our warranty does not apply to any products purchased at auction (whether online or otherwise). If you buy a Fluke product at auction then we do not warrant that product; and
- 2. Our warranty does not apply to any Grey Products that you buy from a non-Fluke Authorized Distributor.

Fluke recognizes that it is the right of every Consumer to decide who they purchase products from. However, if the Consumer chooses to purchase Fluke branded products from any supplier other than Fluke (where applicable), or a non-authorized distributor or reseller.

If you would like to know which distributors or resellers stock Fluke branded products that come with our warranty, then please refer to the Where to Buy section of our website at



Warranties

fluke.com/en-gb/support/warranties

Protect your Fluke investment.

Fluke sells its products only through its network of Authorized Distributors and Wholesalers at



Fluke stands behind their products. We strive to provide quality products,

exceptional customer service, and a warranty that protects your investment in the event your product should encounter any issues. To ensure you receive the quality service you deserve, we select Fluke Authorized Distributors and Service Centers that we believe share our vision of quality and service and provide you with 100% genuine Fluke product.

Benefits of purchasing from an authorized Fluke reseller*

- The confidence that you've purchased a genuine Fluke product
- Your Fluke investment is covered by the Fluke warranty
- Exclusive deals and promotional offers
- Get the Fluke Service you expect
- Product training and support

Find your local Fluke authorized reseller at:

*If you are currently purchasing via a local electrical wholesaler that is not on our Where to Buy Page, please contact them direct and ensure they are purchasing from a Fluke Authorized Distributor.



Authorized Distributors

Fluke Support

FLUKE®

Customer Care

Please contact our customer care team for the following enquiries:

- Price enquiries
- Lead times
- Orders
- Feedback

Check the local Fluke website

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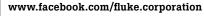
Technical Support

Please contact our customer technical support team for the following enquiries:

- Product Technical Support
- Something not working
- Technical Product Information and questions

Check the local Fluke website





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