



FLUKE®



Fluke Specialist Tools



Industrial Imaging

A close-up photograph of a male worker wearing a blue long-sleeved shirt, a yellow high-visibility safety vest, and safety glasses. He is holding a yellow and black industrial camera with a large lens. The background is a blurred industrial setting.

Power Quality

A close-up photograph of a worker in a blue shirt and yellow safety vest using a yellow power quality analyzer. The device has a screen displaying a waveform. The worker is wearing white gloves and is working on a complex electrical panel with many wires and components.

Fluke offers a wide variety of solutions that not only help you in identifying potential energy consumption optimizations and validating your efforts in saving energy but are also ideal for keeping up with global market standard and latest recommendations to gain competitive edge.

Energy efficiency has always been crucial in the manufacturing sector, but recent developments have highlighted its importance even more.

Of course, energy efficiency is not simply about minimising operational costs or protecting the environment. Other key benefits include being able to extend the working life of their expensive equipment while boosting productivity and performance levels.

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



Thermal Imagers

Temperature can be a sign of trouble ahead. Fluke Thermal Imagers help identifying heat losses and temperature rises caused by overloads, friction, mechanical issues, unbalance and many more. Issues can be detected before they lead to failures. Designed for everyday use, in the toughest industrial environments, Fluke offers a wide range of infrared cameras for various applications.



Acoustic imaging

Fluke Acoustic imaging cameras provide leading edge technology taking ultrasonic leak detection to a new level of efficiency and accuracy. Ideal for quick and easy industrial inspections, especially applications like leak detection and partial discharge testing. An acoustic camera can discover sound sources that are difficult to identify, capture images with sound measurements, and even allow you to adjust frequency levels on your display.



Power quality

Power quality has a major impact on energy consumption, power, and the efficiency of installations. Whether working in an industrial plant, manufacturing facility or a utility, the wide variety of 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.

Thermal Imagers

Fluke Thermal Imagers offer the highest resolution necessary to identify areas of concern for noninvasive preventive maintenance inspection.



	PTi120	TiS20+ MAX	TiS55+	TiS60+	TiS75+	Ti300+	Ti401 PRO	
Key Features								
Infrared Resolution	120 × 90 (10,800 pixels)		256 × 192 (49,152 pixels)	320 × 240 (76,800 pixels)	384 × 288 (110,592 pixels)	320 × 240 (110,592 pixels)	640 × 480 (307,200 pixels)	
SuperResolution	-		-	-	-	-	-	
Temperature Range	-20° C to 400° C		-20° C to 550° C	-20° C to 400° C	-20° C to 550° C	-20° C to 650° C	-20° C to 650° C	
IFOV with Standard Lens (spatial resolution)	7.6 mrad, D:S 130:1		1.91 mrad	1.86 mrad, D:S 532:1	1.91 mrad	1.86 mrad, D:S 532:1	0.93 mrad, D:S 1065:1	
Thermal Sensitivity	60mK		40mK	45mK	40mK	75mK	75mK	
Field of View	50° H × 38° V		28° H × 20° V	34.1° H × 25.6° V	42° H × 30° V	34° H × 24° V	34° H × 24° V	
Minimum Focus Distance	50 cm		50 cm	46 cm	50 cm	15 cm	15 cm	
MultiSharp Focus	-							
LaserSharp Auto Focus	Fixed Focus		Manual Focus	Fixed Focus	Manual Focus	Yes, for consistently in-focus		
Laser Distance Meter	-		-	-	-	Yes, calculates distance to the target for		
Advanced Manual Focus	Fixed Focus		Manual Focus	Fixed Focus	Manual Focus	Yes	Yes	
Wireless Connectivity	Yes, to PC, iPhone™ and iPad™ (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN where							
Fluke Connect™ App Compatible	Yes*, connect your camera to your smartphone, and images taken automatically upload to the Fluke Connect™ app							
IR-Fusion Technology	AutoBlend continuous 0% to 100%. Adds the context of the visible details to your infrared image							
Battery Life	≥ 2 hours continuous (without WiFi)	≥ 5 hours continuous (without WiFi)	3.5 hours continuous (without Wifi)	4 hours continuous use per battery pack	3.5 hours continuous (without Wifi)	2-3 hours		
Warranty	Two years (standard)							

Fluke iSee™ Mobile Thermal Camera - TC01A



Explore the real world for visible details

With the Fluke iSee™ Mobile Thermal Camera - TC01A, temperature can be measured and thermal imaging detection can be carried out anytime and anywhere through the Type C interface of smart phone.

It can facilitate quick checking during electrical and mechanical inspections, residential and commercial uses, household HVAC inspection, field observation, and education purposes, which uncovers the invisible world of temperature.

Detailed image quality comparable to professional thermal cameras

- 256 x 192 pixels, detailed image quality
- 10 ~550°C temperature range, suitable to use in many applications
- 50 mk (0.05°C) thermal sensitivity for fine differences
- ±2% or ±2°C accuracy to ensure reliable results
- 25Hz frame rate for smooth video recording
- Customize image view with more than 10 standard or custom color palette



Fluke Lenses Telephoto, Wide Angle and Macro

	Ti480 PRO	TiX501	TiX580
	640 × 480 (307,200 pixels)	640 × 480 (307,200 pixels)	640 × 480 (307,200 pixels)
	Yes, in software	–	Yes, in software
	–20 °C to 1,000 °C	–20 °C to 650 °C	–20 °C to 1,000 °C
	0.93 mrad, D:S 1065:1	0.93 mrad, D:S 1065:1	0.93 mrad, D:S 1065:1
	50mK	50mK	50mK
	34° H × 24° V	34° H × 24° V	34° H × 24° V
	15 cm	15 cm	15 cm
	Yes, focused throughout the field of view		



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.



Standard

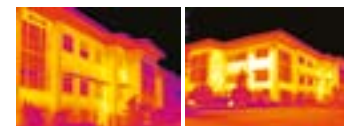
2x Telephoto

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

25 Micron Macro Lens - see detail in very small objects

images. Every. Single. Time

precisely focused images and displays distance on screen

Yes

Yes

Yes

available)

for saving and sharing

continuous use per battery pack

You can connect up to 5 Fluke Connect™ Wireless modules with a Fluke Infrared Camera, while incorporating live readings on the infrared image.



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

*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.

Acoustic Imagers

Fluke acoustic imagers give you the power to see sound, transforming the way industrial inspections are carried out. Whether it's compressed air or gas leaks, partial discharge issues, or mechanical anomalies, Fluke gives you the tools to improve the bottom line through easy and fast inspections that boost efficiency, maximize uptime, reduce costs, and improve safety.



Key Features

Sensors

Frequency band	2 kHz to 52 kHz	2 kHz to 65 kHz
Detection range (depending on ambient conditions)	0.5 to > 50 meters (1.6 to > 164 feet)	0.5 to > 70 meters (1.6 to > 230 feet)

Built-in digital camera (visible light)

Zoom	No zoom	3 x digital zoom
Resolution	0.3 MP	5.0 MP

Display

Size	7" LCD with backlight, sunlight readable	
Resolution	1280 x 800 (1,024,000 pixels)	

Image Storage

Storage capacity	20 GB (> 5,000 pictures / > 999 videos)	32 GB (> 8,000 pictures / > 999 videos)
Video length	Up to 5 minutes	

Classification and quantification

LeakQTM	Leak size scale (1-10)	Leak size scale, Leak rate, and Leak volume
PDQ ModeTM	-	-
MecQTM	-	-
Auto max/min dB gain	Auto	Auto or manual

Battery

Battery	Rechargeable and field replaceable Li-ion battery	
Battery life	6 hours	

Software

Acoustics: Show dB scale	On/Off	
Acoustics: Min/Max dB	Manual/Auto	
Acoustics: Profiles		Preset capture
Acoustics: High frequency		
Acoustics: Multiple sources	Single source	Show single or multiple sources
Centerpoint markers	On/Off	
Trend graphs	Frequency and dB scale	
Spotmarkers	dB level reading at center point of image	
Leak values	LeakQTM scale (1-10)	Leak costs, Leak volume, Leak rate
Annotation	Asset name; Asset ID; Asset type; Leak type; Gas type; Pressure	
Photo notes	Up to 4 photos notes for reference	
Asset ID	Text input and automatic QR code based asset ID identification	
Actions annotation	Action requirements, Action priority level, Action notes	

General specifications

Tripod holder / connector		Yes: 1/4"-20
USB	1 x USB-C	2 x USB-C
Wireless		Wi-Fi
Operating Temperature	-10 to 45° C	
Size (H x W x L)	186 mm x 322 mm x 68 mm	
Weight (battery included)	2.1 kg	2.0 kg
Ingress Protection (IP)	IP40	
Warranty	2 year	
Fluke Premium Care	Premium Care Standard (subject to regional availability)	
Self-diagnostic notification	Array-health test to identify when microphone array needs attention	

Safety

General safety	IEC 61010-1: Pollution degree 2	
Electromagnetic Compatibility (EMC) International	IEC 61326-1: Portable Electromagnetic Environment, CISPR 11: Group 1, Class A	IEC 61326-1: Industry Electromagnetic

Fluke CV Series ClirVu™ Infrared Windows

**Compliance without compromise.
Safety without sacrifice.**

Increase the safety and speed of electrical thermal imaging inspections with Fluke ClirVu™ 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 Greenlee™ punch
 - Panel door does not need to be removed
 - Grounds instantly to metal enclosure with 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 NO.14-13:2012, and CE
- Convenience of both quick turn (CV400, CV300, CV200) or security keyed access (CV401, CV301, CV201)
- Lifetime replacement warranty against manufacturing defects



ii915



Fluke CV400



Fluke CV300



Fluke CV200



Quick & Easy Installation in 5 minutes or less



Specifications	CV400	CV401	CV300	CV301	CV200
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-27 High Strength Zinc/ Aluminum 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	Type 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 mm (4.54 in)		89.89 mm (3.53 in)		61.37 mm (2.41 in)
Greenlee Punch Kit = Punch/Die	742BB = 2984AV/2983AV		739BB = 1431AV/1432AV		76BB = 441AV/442AV
Door Latch	Hand Turn	Security Key	Hand Turn	Security Key	Hand Turn and Security Key
Optics					
Optic insert diameter	95 mm (3.74 in)		75 mm (2.95 in)		50 mm (1.96 in)

Power Quality

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	VR1710	1732/34	1736/38	1742	1746	
Energy Studies						
Measure V, I, kW, Cos/DPF, kWhr		•	•	•	•	
Measure MIN/MAX and AVG values		•	•	•	•	
Waste energy monetization						
Basic Harmonics Study						
THD measurement (V & I)	•	•	•	•	•	
Harmonics 1 to 25 for V & I	• (V only)		•		•	
Advanced Harmonics Study						
Full harmonic spectrum			•		•	
Power harmonics						
Basic Industrial PQ Troubleshooting						
Oscilloscope function			•			
Voltage dips and swells	•		•		•	
Advanced Industrial PQ Troubleshooting						
Comprehensive logging capability			•	•	•	
Transient capture	•		•			
Flicker	•			•	•	
Event capture and transients with waveforms						
8kV transients						
Features						
Inrush			•		•	
Flicker				•	•	
Transients						
Mains signaling					•	
Event waveform capture			•			

Fluke 1770 Series Three-Phase 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.



	1773	1775	1777
	•	•	•
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	•	•	•
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	•	•	•
	•	•	•
	•	•	•
		•	•
		1 MHz	20 MHz
	•	•	•
	•	•	•
		•	•
	•	•	•
	•	•	•

The Fluke 1732 and 1734 Three-Phase Electrical Energy Loggers

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.

The 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.

Portable Oscilloscopes ScopeMeter™



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.



ScopeMeter™

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.



Fluke MDA-550 Series Motor Drive Analyzer

The MDA-550 is the ideal portable motor-drive analysis test tool and can help safely locate and troubleshoot typical problems on inverter type motor-drive systems.



Fluke 120B Series Industrial ScopeMeter™ handheld Oscilloscopes

The compact ScopeMeter™ 120B Series, is the rugged oscilloscope solution for industrial electrical and electro-mechanical equipment troubleshooting and maintenance applications. It's a truly integrated test tool, putting the functions of an oscilloscope, multimeter, and high-speed recorder into one, easy-to-use instrument.

Portable Oscilloscopes 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.

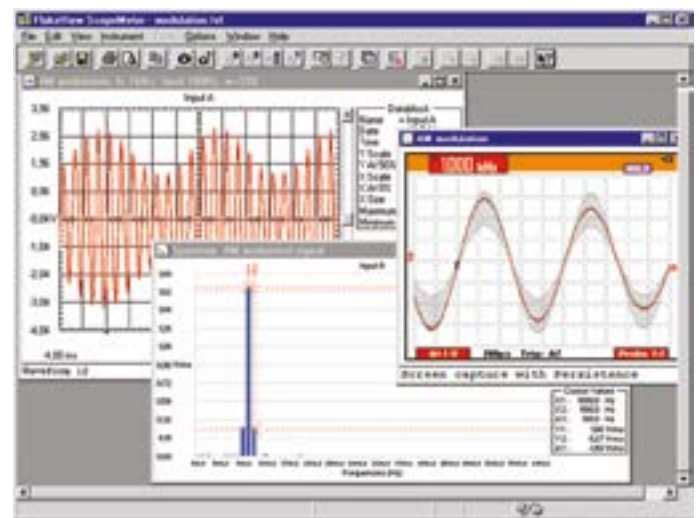


	120B Series			190 Series III				
Models	123B	124B	125B	190-062	190-102	190-104	190-202	
Bandwidth	20 MHz	40 MHz	40 MHz	60 MHz	100 MHz	100 MHz	200 MHz	
Input Channels								
2 scope/DMM Channels	•	•	•					
2 scope Channels + 1 DMM				•	•		•	
4 Channels						•		
Isolated Inputs				•	•	•		
Triggering								
Connect-and-View™	•	•	•	•	•	•	•	
IntellaSet™ Technology	•							
Advanced Triggering				•	•	•	•	
Advanced Measurement Function								
Cursors		•	•	•	•	•	•	
TrendPlot™	•	•	•	•	•	•	•	
ScopeRecord™	•	•	•	•	•	•	•	
100 screen Replay				•	•	•	•	
Industrial Bus Health			•					
Harmonics			•					
FFT				•	•	•	•	
Power Measurements			•	•	•	•	•	
Waveform Mathematics			•	•	•	•	•	
Guided Motor-Drive Analysis								
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)	
General Specifications								
Size (H × W × D)	259 × 132 × 55 mm	259 × 132 × 55 mm	259 × 132 × 55 mm	270 × 190 × 70 mm	270 × 190 × 70 mm	270 × 190 × 70 mm	270 × 190 × 70 mm	
Weight	1.4 kg (3.2 lb)			2.2 kg (4.8 lb)	2.2 kg (4.8 lb)	2.2 kg (4.8 lb)	2.2 kg (4.8 lb)	
Compatible Software								
Fluke Connect™ App	•	•	•	•	•	•	•	
FlukeView-2				•	•	•	•	



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

				MDA Series III
	190-204	190-502	190-504	MDA-550
	200 MHz	500 MHz	500 MHz	500 MHz
		•		
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	•	•	•	•
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	•	•	•	•
	7	7	7	7
	270 × 190 × 70 mm	270 × 190 × 70 mm	270 × 190 × 70 mm	270 × 190 × 70 mm
	2.2 kg (4.8 lb)	2.2 kg (4.8 lb)	2.2 kg (4.8 lb)	2.2 kg (4.8 lb)
	•	•	•	•
	•	•	•	•

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.



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.



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.



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 10 000 psi/690 bar boasting 0.02% full-scale accuracy to help you quickly and reliably calibrate your pressure instruments.

Process Calibration Tools

Fluke process calibration tools include a full range of calibrators and troubleshooting tools including Pressure Calibrators, Multifunction Process Calibrators, single-function and multifunction Temperature Calibrators, as well as a variety of mA Loop Calibrators and meters. Fluke also offers a full line of Intrinsically safe process calibrators for testing instruments installed in process areas where explosive gases may be present.



	Documenting Process Calibrators	Multifunction Process Calibrators		Temperature Calibrators			Pressure			
Models	754 / 753	725	726	724	714B	712B	718/718Ex	717	719	
Voltage DC	300 V	30 V	30 V	30 V	75 mV					
Voltage AC (True RMS)	300 V									
Resistance	10 kΩ	3200 Ω	4000 Ω	3200 Ω		4000 Ω				
Current DC	110 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	
Current AC										
Frequency	50 kHz	10 kHz	15 kHz							
Pressure	• ¹	• ¹	• ¹				~12 to 300 psi ² (4 ranges)	~12 to 10,000 psi ² (10 ranges)	~12 to 100 psi ² (2 ranges)	
Temperature						-				
Temperature: RTD types	8	7	8	7		13				
TC types	13	12			17					
Source/Simulate										
Voltage DC	15 V	10 V	20 V	10 V	75 mV					
Resistance	10 kΩ	3200 Ω	4000 Ω	3200 Ω		4000 Ω				
mA DC/% scale	22 mA	24 mA	24 mA						•	
mA source; auto step, auto ramp	•	•	•							
Frequency	50 kHz	10 kHz	15 kHz							
Temperature: RTD types	8	7	8	7		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			24 V / -	24 V	24 V	
HART™ communication	754 only									
Integrated hand pressure pump							•			
Electric Pump									•	
Intrinsically safe (ATEX)							718 Ex			
Ttraceable certification	•	•	•	•	•	•	•	•	•	
Warranty in years	3	3	3	3	3	3	3	3	3	

¹ Fluke 750 Pressure Modules Required ² Ranges for the internal sensor ³ Ranges depending on version ⁴ By using optional 720 RTD Probe accessory ⁵ Fluke 789 & 787B are Fluke Connect™ compatible with



Calibrators			Automatic Pressure Calibrator	Loop Calibrators						Process-Meters™
	719Pro	721	729	715	705	707	709/709H/710	771	772/77*3	789/787B
	30 V	30 V	30 V	10 V	28 V	28 V	30 V		- / 30 V	1000 V
										1000 V
										40 MΩ
	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	100 mA	100 mA	30 mA, 1 A
										•
										20 kHz
	-12 to 300 psi² (3 ranges)	input 1: -0.97 bar to 2,48 bar input 2: -0.83 bar to 345 bar³	-12 to 300 psi² (3 ranges)							
	-50° C to 150° C⁴	-50° C to 150° C⁴	-50° C to 150° C⁴							
			30 V	10 V					- / 10 V	
	•		24 mA	24 mA	24 mA	24 mA	•		24 mA	24 mA
			•	•	•	•	•		•	•
	•	•	•							•
			•					•	•	•
			•							
			•				-/•			
			•				-/•			•
			•							
	24 V	24 V	24 V	24 V	24 V	24 V	24 V		24 V	24 V/-
			•				-/•			
	•	•	•							
		721Ex								
	•	•	•	•	•	•	•			
	3	3	3	3	3	3	3	3	3	3

Fluke ir3000 FC Connector (sold separately)

Digital Multimeters



Clamp Meters



Experienced electrical professionals know that they can trust their job, their reputation and even their personal safety to Fluke electrical test tools.

Choosing the right digital multimeter (DMM) or clamp meter requires thinking about what you'll be using it for. Evaluate your basic measurement needs and job requirements and then take a look at special features/functions built into many multimeters. Think about whether you need to do basic measurements, or if you need the more advanced troubleshooting options offered by special features.



Digital Multimeters

Fluke Digital Multimeters (DMMs) are on more tool belts, finding more problems, than any other 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.



Clamp Meters

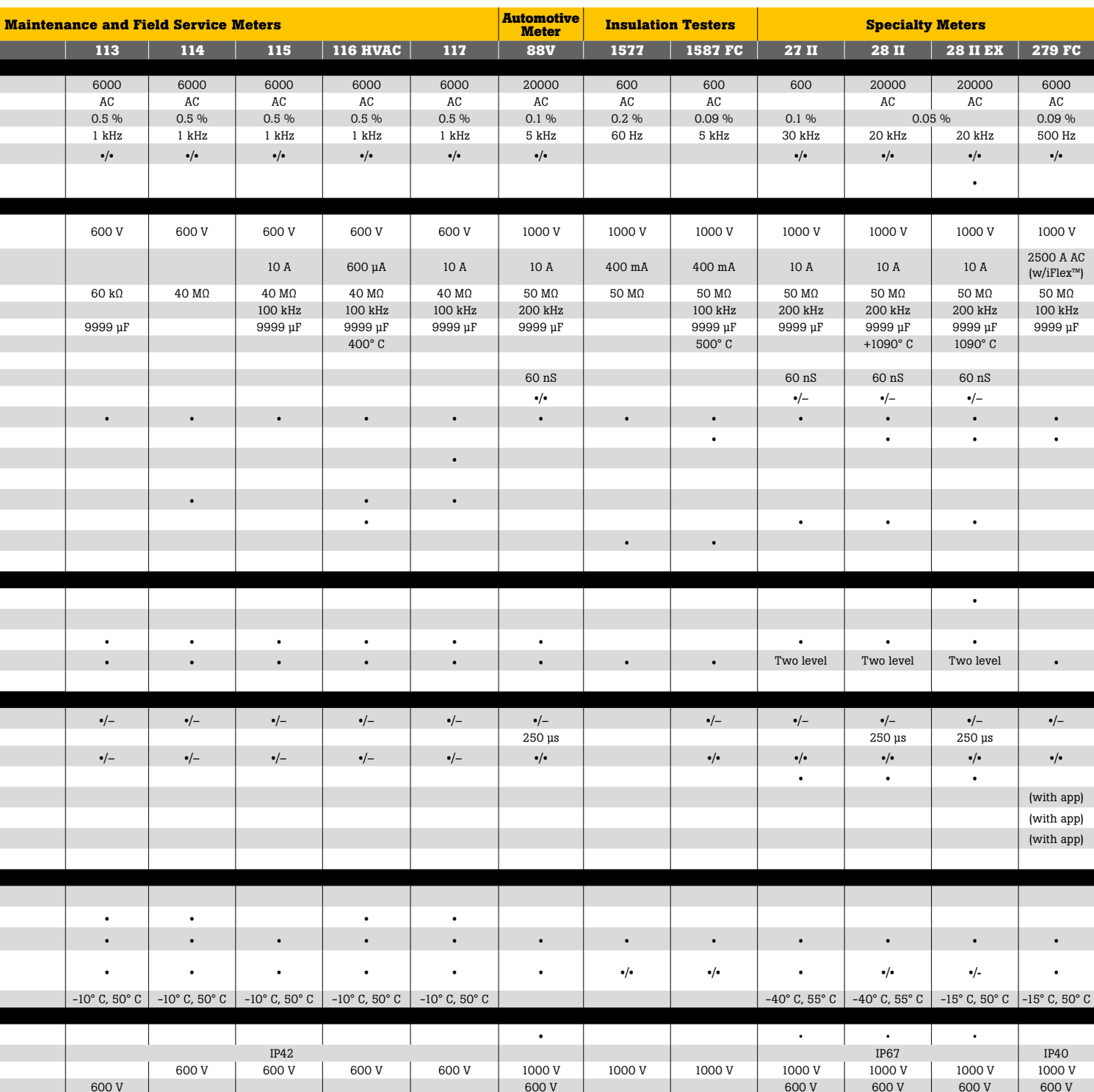
The Fluke digital clamp meter is a workhorse tool for everyday use. These amp clamp meters are designed for noise-free, reliable readings. With advanced performance, the current clamp line is designed to be simple-to-use, grab and go tools, perfect for tight, compact spaces or getting readings from panels that are out of reach or getting around extra-large conductors.

Digital Multi-meters

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.



	Advanced Meters					Wireless Meter	Industrial			
Models	87 V	87 V MAX	283 FC	287	289	3000 FC	175	175	179	
Basic features										
Counts	20000	20000	6000	50000	50000	6000	6000	6000	6000	
True-RMS readings	AC	AC	AC+DC	AC+DC	AC+DC	AC	AC	AC	AC	
Basic DC accuracy	0.05 %	0.05 %	0.09%	0.02 %	0.02 %	0.09 %	0.15 %	0.09 %	0.09 %	
AC bandwidth	20 kHz	20 kHz	1 kHz	100 kHz	100 kHz	1 kHz	1 kHz	1 kHz	1 kHz	
Auto/manual ranging	*/•	*/•	*/•	*/•	*/•	*/•	*/•	*/•	*/•	
Class 1 Zone 1 AEx ia IIC T4										
Class 1 Division 1, Groups ABCD										
Measurements										
Voltage AC/DC	1000 V	1000 V	1000 V / 1500 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	
Current AC/DC	10 A	10 A	60 A w / a283 FC	10 A	10 A	400 mA	10 A	10 A	10 A	
Resistance	50 MΩ	50 MΩ	50 MΩ		500 MΩ	50 MΩ	50 MΩ	50 MΩ	50 MΩ	
Frequency	200 kHz	200 kHz	99 kHz	1 MHz	1 MHz	100 kHz	100 kHz	100 kHz	100 kHz	
Capacitance	9999 µF	9999 µF	9999 µF		1 pF to 100 mF	9999 µF	9999 µF	9999 µF	9999 µF	
Temperature	1090° C	1090° C			1350° C		-	-	400° C	
dB				60 dB	60 dB					
Conductance	50 nS	60 nS		50 nS	50 nS					
Duty cycle/pulse width	*/-	*/-			*/•					
Continuity/diode test	•	•	*/-	•	•	•	•	•	•	
Motor Drive (ASD) Measurements	•	•			•					
VoltAlert™, non-contact voltage detection										
Meter Readiness Self-Check			•							
LoZ: low input impedance					•					
Microamps	•	•		•	•					
Insulation Test										
Limit-Gauge			•							
Display and keypad										
Illuminated keypad			•							
Dual display			•	•	•	•				
Analog bargraph	•	•		•	•		•	•	•	
Backlight	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					
Display Hold/Auto (Touch) Hold	*/•	*/•	*/•	*/•	*/•	*/•	*/•	*/•	*/•	
Relative reference	•	•	•	•	•					
Stand alone logging			•	•	•	(with app)				
Trend Capture			(with app)	•	•	(with app)				
Readings memories			60000+	10000	10000	(with app)				
USB interface				•	•					
Other features										
Real time clock			•	•	•					
Automatic selection, AC/DC volts										
Closed case calibration	•	•	•	•	•	•	•	•	•	
Separate battery/fuse access	*/-	*/•	*/no fuse required	*/•	*/•	•	*/•	*/•	•	
Operating temperature range	-120° C, 55° C	-40° C, 55° C	-10° C, 60° C	-20° C, 55° C	20° C, 55° C	-10° C, 50° C	-10° C, 50° C	-10° C, 50° C	-10° C, 50° C	
Warranty and electrical safety										
Input alert	•	•	•	•	•					
IP Rating	IP30	IP67	IP52			IP54				
Safety rating (IEC 61010) CAT III	1000 V	1000 V	1500 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	
Safety rating (IEC 61010) CAT IV	600 V	600 V	1000 V	600 V	600 V	600 V	600 V	600 V	600 V	



Clamp Meters

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.



	Residential/Commercial Electrical		General Purpose					
Models	323	325	365	373	374 FC	375 FC	376 FC	
Measurements								
AC current	•	•	•	•	•	•	•	
AC voltage	•	•	•	•	•	•	•	
Resistance	•	•	•	•	•	•	•	
Continuity	•	•	•	•	•	•	•	
DC voltage	•	•	•	•	•	•	•	
DC current		•						
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	
Wireless					•	•	•	
FieldSense™								
PQ indicator								
DC power								
Display								
Display hold	•	•	•	•	•	•	•	
Backlight								
Specifications								
Jaw opening	30 mm	30 mm	18 mm	32 mm	34 mm	34 mm	34 mm	
Max wire size	300 mm ²	300 mm ²	17 mm ²	400 mm ²	400 mm ²	400 mm ²	400 mm ²	
Current range AC	0 to 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 iFlex™)	0 to 600.0 A (2500 A with iFlex™)	0 to 999.9 A (2500 A with iFlex™)	
Accuracy AC current (50/60 Hz)	2% ±5 counts	2% ±5 counts	2% ±5 counts	2% ±5 counts	2% ±5 counts	2% ±5 counts	2% ±5 counts	
AC Response	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS	
Current range DC		0 to 40.00 A/ 400.0 A	0 to 200 A		0 to 600.0 A	0 to 600.0 A	0 to 999.9 A	
Accuracy DC current		2% ±5 counts	2% ±5 counts		2% ±5 counts	2% ±5 counts	2% ±5 counts	
Voltage range AC	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 1000 V	
Accuracy AC voltage	1.5% ±5 counts	1.5% ±5 counts	2% ±5 counts	1% ±5 counts	1.5% ±5 counts	1.5% ±5 counts	1.5% ±5 counts	
Voltage range DC	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 1000 V	
Accuracy DC voltage	1.0% ±5 counts	1.0% ±5 counts	2% ±5 counts	1% ±5 counts	1% ±5 counts	1% ±5 counts	1% ±5 counts	
Resistance range	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	
Frequency range		5 to 500 Hz				500 Hz	500 Hz	
Warranty and Safety								
Warranty (years)	2	2	3	3	3	3	3	
Safety Compliance (IEC 61010-2-032)	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, CAT IV 600 V	
Fluke Connect™								
Fluke Connect™ App compatible					•	•	•	



	Industrial Electrical				HVAC/R	High-End Industrial, Utility		Leakage	Wireless	
	377 FC	378 FC	381	393 FC	902 FC	353	355	368 FC/369 FC	a3000 FC	a3001 FC
	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•		•			
	•	•	•	•	•		•			
	•	•	•	•	•		•			
	•	•	•	•	•		•			
	•	•	•	•	•	•	•	•	•	•
	•	•	•	•	•	•	•			•
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	•	•		•				•	•	•
	•	•	•	•		•	•		•	•
	•	•	•	•		•	•			
	Included	Included	Included	Included						Included
	•	•		•	•			•	•	•
	•	•								
		•								
				•						
	•	•	•	•	•	•	•	•	in phone app	in phone app
	•	•	•	•	•	•	•	•	•	
	34 mm	34 mm	34 mm	34 mm	30 mm	58 mm	58 mm	40 mm 61 mm	34 mm	254 mmn coil
	400 mm ²	400 mm ²	400 mm ²	400 mm ²	300 mm ²	400 mm ² or 3× 240 mm ²	400 mm ² or 3× 240 mm ²		400 mm ²	
	0 to 999.9 A (2500 A with iFlex™)	0 to 999.9 A (2500 A with iFlex™)	0 to 999.9 A (2500 A with iFlex™)	0 to 999.9 A (2500 A with iFlex™)	0 to 600.0 A	0 to 1400 A		0 to 60 A	0 to 400 A	0 to 2500 A
	2% ±5 counts	2% ±5 counts	2% ±5 counts	2% ±5 counts	2% ±5 counts	1.5% ±5 counts		1% ±5 counts	2% ±5 counts	3% ±5 counts
	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS	True-RMS
	0 to 999.9 A	0 to 999.9 A	0 to 999.9 A	0 to 999.9 A	0 to 200 µA	0 to 2000 A	0 to 2000 A			
	2% ±5 counts	2% ±5 counts	2% ±5 counts	2% ±5 counts	1% ±5 counts	1.5% ±5 counts	1.5% ±5 counts			
	0 to 1000 V	0 to 1000 V	0 to 1000 V	0 to 1000 V	0 to 1000 V		0 to 600.0 V			
	1.5% ±5 counts	1.5% ±5 counts	1.5% ±5 counts	1.5% ±5 counts	1% ±5 counts		1% ±5 counts			
	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			
	1% ±5 counts	1% ±5 counts	1% ±5 counts	1% ±5 counts	1% ±5 counts		1% ±5 counts			
	0 to 60 kΩ	0 to 60 kΩ	0 to 60 kΩ	0 to 60 kΩ	0 to 60 kΩ		0 to 400 kΩ			
	500 Hz	500 Hz	500 Hz	500 Hz		5 to 1000 Hz	5 to 1000 Hz	40 to 1000 Hz		
	3	3	3	3	3	3	3	1	3	3
	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 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
	•	•		•	•			•	•	•

Reduce unplanned expenses and get the most out of your tools with Premium Care

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.

Premium Care is available in one-year and three-year options so you can choose the plan that is right for you.

	Standard Warranty	Premium Care
Repair manufacturing defects	✓	✓
Accidental damage and repair		✓
Replacement of damaged accessories		✓
Annual calibration or performance check		✓
Expedited calibration and repair		✓
Priority tech support		✓
Expedited freight		✓



PremiumCare

Uptime Protection by **FLUKE**



Repair manufacturing defects

Ensuring that your equipment functions as intended maintains accuracy and reliability, thereby reducing downtime and ensuring the longevity of your Fluke product.



Accidental damage and repair

Avoid costly repairs and rest easy knowing your test tool is covered.



Replacement of damaged accessories

Accessories that originally shipped with your unit, like batteries, power adapters, probes and cables, and have been qualified as defective by our technicians will be replaced, free of charge.



Annual calibration or performance check

Ensure your test tool is providing accurate results and adheres to the recommended maintenance schedule by leaving it in the hands of our experts.



Expedited calibration and repair

Your calibration or repair will be expedited so you can get back to your work faster.



Expedited shipping

Accelerates the shipping process and reduces the time your equipment spends in transit. By minimizing the overall turnaround time, we can ensure that your product is back in your hands and operational as quickly as possible.



Priority tech support

Ensures prompt assistance and resolution of technical issues, minimizing downtime by quickly addressing any problems or concerns with your equipment.



Find out more at:
www.fluke.com/en-gb/support/customer-services/premium
 or contact your local Fluke authorized distributor

See the Terms & Conditions for more information.
 Prices subject to change without notice.