

Fluke 187 and 189 Digital Multimeters

Solve complex maintenance and design problems with advanced functions, accuracy and data logging.



The Fluke 189 is the most advanced meter with the features, precision and accuracy to troubleshoot power distribution, industrial automation, process controls and electronic and electro-mechanical equipment in the field or on the bench. The Fluke 189 has a built-in data logger to record measurements unattended without a PC. Recorded data can be viewed on the 189 or transferred to a PC with optional FlukeView® Forms software.

- True-rms, 100 KHz bandwidth for precise measurement of non linear signals
- 0.025 % dc accuracy and 1 microvolt resolution for bench meter performance in a handheld package
- Temperature, capacitance, dB, frequency, pulse width and duty cycle to find more problems with one tool
- Large bright white display with dual parameter readout
- Built in data logger (Fluke 189) records reading and time to catch intermittent problems. View stored readings on the meter
- Min/Max with timestamp to record signal fluctuations
- Peak capture to measure transients as short as 250 µs
- Relative offset measurement to remove test lead resistance and to see small changes
- Isolated IR communication port to send data to a PC
- Operates under extreme conditions from -20 °C to +55 °C (-4 °F to 131 °F)

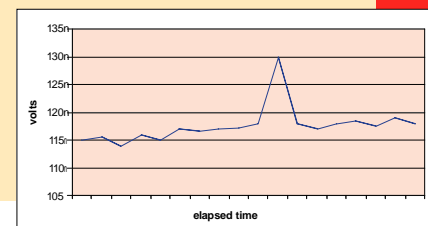
Electrical safety

All inputs are protected to measurement Category III 1000 V and Category IV 600 V. They can withstand transient impulses in excess of 8000 V assuring your protection from surges and spikes.



Capture problems with built-in data logging

- Find drifting signals that cause process problems
- Catch a glitch and the time it happened
- Record temperature, voltage, current, or resistance
- View values and time on the 189
- View graphs on your PC



Fluke 189 Logging Digital Multimeter and FlukeView® Forms Combo Pack

- Includes a Fluke 189 Logging Digital Multimeter plus FlukeView® Forms Documentation and Analysis Software
- Create custom forms or reports to document and archive test procedures and results
- Documentation can establish long term analyses and troubleshooting data of various processes for use in preventative maintenance schedules
- FlukeView® Forms includes software, infrared adapter, cable and connector

Specifications – 189 and 187 DMMs

Function	Range and resolution	Best accuracy 180 Series
VDC	50.000 mV, 500.00 mV, 3000.0 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V	± 0.025 %
VAC	50.000 mV, 500.00 mV, 3000.0 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V	± 0.4 %
ADC	500.00 µA, 5.000 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A*	± 0.15 %
AAC	500.00 µA, 5.000 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A*	± 0.75 %
Resistance	500.00 Ω to 500.0 MΩ	± 0.05 %
Capacitance	1.100 nF to 50.00 mF	± 1.00 %
Frequency	500.00 Hz, 5.0000 kHz, 50.000 kHz, 999.99 kHz	± 0.005 %
Temperature	-200 °C to 1350 °C (-328 °F to 2462 °F)	± 1 % of reading
Duty cycle	10 % to 90 %, resolution 0.01 %	
Pulse width	2 ranges, 499.99 ms and 999.9 ms, best resolution 0.01 ms	3 %
dBm, dBv	-62 to +60, resolution 0.01 dB	0.1 dB

*10 A continuous, 20 A for up to 30 seconds and not specified.
 Battery life: 72 hours typical (alkaline)
 Size (LxWxD): 203 mm x 100 mm x 50 mm (8.00 in x 3.94 in x 1.97 in)
 Weight: 0.545 kg (19.2 oz)
 Limited lifetime warranty

Recommended accessories – 189 and 187 DMMs



Power Tech International Group
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 www.powertech-group.com

Included accessories

Every 180 series meter comes packaged with TL71 Silicone Test Leads, probe holders, two AC72 Alligator Clips, four AA batteries (installed), CD-ROM (user's manual and technical notes) and operator's guide.

Ordering information

Fluke-189 Logging Multimeter
 Fluke-187 Digital Multimeter
 FVF-SC2 FlukeView Forms Software
 189/FVF DMM and Software Combo Pack

