

# 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)

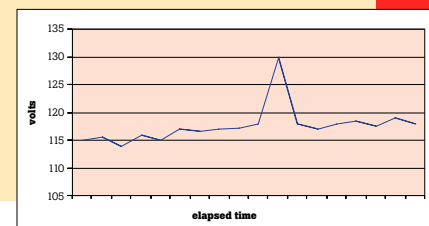
### Electrical safety

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 0.01dB	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



For more information, go to [www.MyFlukeStore.com](http://www.MyFlukeStore.com)

