

# Fluke 187 & 189 Digital Multimeters

## Measurement functions, accuracy and data logging for solving complex problems.



















The Fluke 189 and 187 are the most advanced meters 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.

- True-rms, 100 KHz bandwidth for precise measurement of non linear signals
- 0.025 % dc accuracy, 1 microvolt reso-
- Large bright white display with dual parameter readout
- Built in data logger (model 189) records reading and time of day for catching intermittent problems

- · View stored readings (model 189) on the meter
- MIN / MAX with timestamp to record signal fluctuations
- Peak capture to measure transients as short as 250 µS
- Relative mode to monitor small variations
- Free your hands with the optional TPAK™ magnetic hanger
- Isolated IR communication port to send data to a PC
- Auto and Manual ranging
- Meets Category III 1000 V and Category IV 600 V safety standards

# **Specifications**

Function	Range & 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 $\Omega$ to 500.0 M $\Omega$	±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 to 1350 °C, -328 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

<sup>\* 10</sup> A continuous, 20 A for up to 30 seconds and not specified.

Battery life: 72 hours typical (alkaline). Size: 203 mm L x 100 mm W x 50 mm D (8.00 $^{\circ}$  L x 3.94 $^{\circ}$  W x 1.97 $^{\circ}$  D) Weight: 0.545 kg (19.2 oz) Limited lifetime warranty

#### Fluke 189 Data Logging Multimeter and Software Combo Pack

Includes Fluke 189 Logging Multimeter, FlukeView® Forms Software, USB cable adapter, test leads, alligator clips, temperature thermocouple, extended battery pack, soft carrying case and meter hanger.



## **Accessories and Ordering Information**

## **Included accessories**

Every 180 Series 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-187 Digital Multimeter Fluke-189 Logging Multimeter FVF-SC2 FlukeView Forms Software Fluke-189/FVF2 Data Logging Multimeter and Software Combo Pack

#### Recommended Accessories – 180 Series DMMs



Fluke. Keeping your world up and running.

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