

# 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 resolution
- 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 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 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                   |

\* 10 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" L x 3.94" W x 1.97" 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/FVP2 Data Logging Multimeter and Software Combo Pack

### Recommended Accessories – 180 Series DMMs



Fluke. Keeping your world up and running.

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