

351-1212
351-1224

FLUKE®

180 Series Analog/Digital Multimeters

The smartest meters.

True-rms

New



The Fluke 187 and 189 DMMs deliver breakthrough performance with a wealth of new features, ranges and accuracy that will help make your job easier, such as :

- 0.025% basic dc accuracy
- 50 000 counts resolution with instant readings for detailed analyses
- 100 kHz ac bandwidth for troubleshooting modern electronics
- Internal memory for stand-alone logging and storage of up to 1000 measurements (189 only)
- MIN MAX to record and timestamp values in elapsed time with reference to real time clock. Fast MIN MAX captures peaks to 250 μ S
- PC interface for closed case calibration and data exchange with computer using optional FlukeView Software

- Temperature readings in °C or °F using optional K-type thermocouple and 80AK thermocouple adapter
- Enhanced ranges, such as voltage measurements down to 1 μ V, capacitance up to 50 000 μ F and resistance up to 500 M Ω
- Multiple reading display with bargraph and two-level backlight
- ToolPak accessory for hanging your meter and LockPak accessory for locking your meter

Safety Conformance

All inputs are protected to EN61010-1 CAT III 1000V/CAT IV 600V UL, CSA and TÜV listed.

Features

	187	189
Basic dc accuracy of 0.025%	●	●
50,000 counts primary display for high resolution measurement readings	●	●
Dual display with two level backlight and analog bargraph	●	●
True-rms ac, ac + dc	●	●
100 kHz ac bandwidth	●	●
dBm, dBV	●	●
Duty cycle/pulse width	●	●
250 μ s fast MIN MAX	●	●
MIN/MAX/AVERAGE recording with time-stamp and real time clock	●	●
Temperature measurements in °C and °F using K-type thermocouple + adapter	●	●
Battery and fuse access door	●	●
PC interface for closed case calibration and data exchange with computer	●	●
Optional FlukeView Forms Software	●	●
Stand-alone logging to internal memory locations of up to 1000 measurements		●
Memory for saving up to 100 readings		●

LISTED



Accessories and Ordering Information

Included Accessories

Every 187 and 189 comes packaged with TL71 silicone testleads, probe holder, two AC70A alligator clips, 4 AA batteries (installed), manual and CD-ROM.

Ordering Information

FLUKE 187
FLUKE 189
FVF-SC2 FlukeView Forms version 1.5 including interface cable

Visit us on the world wide web at :

<http://www.fluke.com>

Function	Range & Resolution	Best Accuracy
		187/189
VDC	50.000 mV, 500.00 mV, 3000.0 mV, 5.0000V, 50.000V, 500.00V, 1000.0V	$\pm(0.025\% + 5)$
VAC	50.000 mV, 500.00 mV, 3000.0 mV, 5.0000V, 50.000V, 500.00V, 1000.0V	$\pm(0.4\% + 40)$
ADC	500.00 μ A, 5.000 μ A, 50.000 mA, 400.00 mA, 5.0000A, 10.000A*	$\pm(0.15\% + 2)$
AAC	500.00 μ A, 5000.0 μ A, 50.000 mA, 400.00 mA, 5.0000A, 10.000A*	$\pm(0.75\% + 5)$
Resistance	500.00 Ω - 500.0 M Ω	$\pm(0.05\% + 2)$
Capacitance	1.000 nF - 50.00 mF	$\pm(1.00\% + 5)$
Conductance	500 ns	$\pm(1\% + 10)$
dBm and dBV	- 52/+60	± 0.1 dB
Frequency	500.00 Hz, 5.0000 kHz, 50.000 kHz, 999.99 kHz	$\pm(0.005\% + 1)$
Temperature	-200 to 1350°C; -328 to 2462 °F	$\pm(1\% + 1^\circ\text{C})$

*10 A continuous, 20 A for up to 30 seconds and not specified

Range & Resolution: If selected range is 5.0000V the resolution is 0.0001V in that range
Battery life: 72 hours typical (alkaline)

Size (HxWxD): 203 mm x 100 mm x 50 mm; **Weight :** 0.545 kg

Lifetime Warranty