

# 187/189 Digital Multimeters

#### The smartest meters

#### True-rms













## Accessories and Ordering Information

**Included Accessories:** 

TL71 silicone test leads, probe holder, two AC70A alligator clips, 4 AA batteries (installed), user manual, calibration certificate with measurement data.

Ordering information:

Fluke 187 True rms Multimeter
Fluke 189 True rms Multimeter
FVF-SC2 FlukeView Forms software 1.6

including interface cable.

Pub\_ID: 10281-eng Rev. 02 The 180 Series are the only choice for users who simply want the best meter available.

The two top models 187 and 189, with integrated holsters, are the smartest meters when it comes down to performance, features and more. Extremely fast readings, extended ranges, the highest bandwidth, accuracy and resolution are the basis for their performance. Features like a dual display with bargraph and backlight, true-rms AC/AC+DC measurements and a PC interface make them suitable for the most demanding applications. In addition, the

189 has a readings memory for up to 100 readings and a unique stand-alone logging function to measure hard to find intermittent problems.

#### **Safety Conformance**

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

### **Features**

Bar	dwidth (voltage/current)
Dig	ital display counts (default/selectable)
	tiple display with large digits and backlight, updates mes per second
Ana	alog bargraph segments, updates 40 times per second
Min	-Max-Average recording with relative time stamp
Fas	t Min-Max recording
	ch Hold® and Relative modes for reference and offset asurements
	nperature readings using optional K-type thermocouple l adapter
Auc	lible continuity and diode test
Dut	y cycle and pulse width measurements
PC	interface for data exchange and closed case calibration
	mory for storing up to 3 days of continues stand-alone ging
Rea	dings memory (memory locations)
	y battery and fuse exchange without opening the uplete case
	onomic case with integrated protective holster

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187	189
AC, AC+DC	AC, AC+DC
100 kHz / 100 kHz	100 kHz / 100 kHz
50000 / 5000	50000 / 5000
•	•
51-segments	51-segments
•	•
250 μsec	250 µsec
•	•
•	•
•	•
•	•
•	•
	•
	100
•	•
•	•

## **Specifications**

Functions	Maximum	Max. resolution
Voltage DC	1000 V	1 μV
Voltage AC	1000 V	1 μV
Current DC	10 A	0.01 µA
Current AC	10 A	0.01 µA
Resistance	500 MΩ	0.01 Ω
Conductance	500 nS	0.01 nS
Capacitance	50000 μF	0.001 nF
Frequency	1 MHz	0.01 Hz
Temperature	-200°C/+1350°C	0.1°C
dBm and dBV	-52/+60 dB	0.01 dB

187 and 189*
±(0.025%+5)
±(0.4%+40)
±(0.15%+2)
±(0.75%+5)
±(0.05%+2)
±(1.0%+10)
±(1.0%+5)
±(0.005%+1)
±(1%+1°C)
± 0.1 dB

Accuracies are best accuracies for each function.
\*\* 187 and 189 accuracy and resolution are stated for 50.000 counts.

Battery Life: 72 hours typical (alkaline) Size (HxWxD): 203 mm x 100 mm x 50 mm

Weight: 0.545 kg Lifetime Warranty