

Fluke 187/189 Digital Multimeters

Specifications

Technical Data

Voltage DC	Accuracy* $\pm (0.025\%+5)$ Max. Resolution 1 μ V Maximum 1000 V
Voltage AC	Accuracy* $\pm (0.4\%+40)$ Max. Resolution 1 μ V Maximum 1000 V
Current DC	Accuracy* $\pm (0.15\%+2)$ Max. Resolution 0.01 μ A Maximum 10 A
Current AC	Accuracy* $\pm (0.75\%+5)$ Max. Resolution 0.01 μ A Maximum 10 A
Resistance	Accuracy* $\pm (0.05\%+2)$ Max. Resolution 0.01 Ω Maximum 500 M Ω
Capacitance	Accuracy* $\pm (1.0\%+5)$ Max. Resolution 1 pF Maximum 50,000 μ F
Frequency	Accuracy* $\pm (0.005\%+1)$ Max. Resolution 0.01 Hz Maximum 1 MHz
Temperature	Accuracy* $\pm (1.0\%+1^{\circ}\text{C})$ Max. Resolution 0.1 $^{\circ}\text{C}$ Range -200 $^{\circ}\text{C}$ to 1350 $^{\circ}\text{C}$

Conductance	Accuracy* $\pm (1\%+10)$ Max. Resolution 0.01 nS Maximum 500 nS
dBm and dBV	Accuracy* ± 0.1 dB Max. Resolution 0.01 dB Range -52 to 60 dB
Note	* Accuracies are best accuracies for each function

Environmental Specifications

Operating Temperature	-20 °C to +55 °C
Storage Temperature	-40 °C to +60 °C
Humidity (Without Condensation)	0% to 90% (0 °C - 35 °C) 0% to 70% (35 °C - 55 °C)

Safety Specifications

Overvoltage category	EN 61010-1 to 1000 V CAT III. EN 61010-1 to 600 V CAT IV.
Agency Approvals	CSA, UL, TÜV, VDE Pending

Mechanical & General Specifications

Size	203 x 100 x 50 mm
Weight	545 g
Warranty	Lifetime
Battery life	Alkaline: ~72 hours typical, without backlight

Models, Options & Accessories

Model Name	Product Description
Fluke 187/189	Analog/Digital Multimeter Included Accessories <ul style="list-style-type: none"> ● 4 AA batteries, installed ● CD-ROM ● Manual ● Probe Holder ● TL71 Silicone Test leads ● two Alligator Clips

Optional Accessories

Test leads, probes and clips	
AC70A	Alligator Clips
TL20	Industrial Test Lead Set
TL21A	Extension Lead Set
TL22	Test Leads
TL23F	Electrical Test Lead Set (flat blade)
TL23R	Electrical Test Lead Set (4 mm)
TL24	Test Leads
TL28A	Automotive Test Lead Set
TL71	Test Lead Set
TL74	Test Lead Set (4 mm)
TL75	Hard Point Test Lead Set
TL80A	Basic Electronic Test Lead Set
TL81A	Deluxe Electronic Test Lead Set

Current clamps

80i-400	AC Current Clamp (400 A)
i1010	AC/DC Current Clamp (1000 A)
i200	AC Current Clamp (200 A)
i2000flex	AC Current Clamp (2000 A)
i200s	AC Current Clamp (200 A)
i3000s	AC Current Clamp (3000 A)
i410	AC/DC Current Clamp (400 A)

Cases and holsters

C100	Hard Meter and Accessory Case
C125	Soft Meter Case
C25	Soft Meter Case
C510	Leather Meter Case

Temperature accessories

80AK	Thermocouple Adapter
80BK	Integrated DMM Probe (Type K)
80T-150U	Universal Temperature Probe (for DMMs)
80T-IR	Infrared Temperature Probe (for DMMs)
80TK	Thermocouple Module (Type K)

Other accessories

80K-40	High Voltage Probe
80K-6	High Voltage Probe
85RF	High Frequency Probe (500 MHz, 30 V)
FOM	Fiber Optic Meter
FVF-SC2	FlukeView Forms Software + Cable (180 Series)
LPAK	LockPak, Meter Locking Kit
TPAK	ToolPak, Meter Hanging Kit