

787/789 ProcessMeters



Fluke 787



Fluke 789



LISTED



Double your power

The Fluke 787 and 789 ProcessMeters combine a Digital Multimeter and a Loop Calibrator in one rugged handheld tool, giving process technicians double the power. The Fluke 789 has a built-in 24 V loop supply which reduces the need for taking a separate power supply when doing offline transmitter testing. The IR communication

port of the Fluke 789 allows data to be logged to optional FlukeView Software for graphical analysis and reporting.

Features

	787	789
DMM and Loop Calibrator in one tool	●	●
Precision 1000 V, 440 mA True RMS Digital Multimeter	●	●
DC current source and Loop Calibrator	●	●
24 V Loop power supply		●
Min/Max / Average / Hold / Relative Modes	●	●
Diode Test and Continuity Beeper	●	●
Manual Step (100%, 25%, Coarse, Fine) plus Auto Step and Auto Ramp	●	●
Simultaneous mA and % of scale read-out	●	●
Externally accessible battery / fuses	●/-	●/●
HART mode setting with loop power and a built-in 250 Ω resistor		●
0% and 100% buttons to toggle between 4 and 20 mA sourcing for a quick span check		●
Infrared I/O serial port		●

Specifications

	787	789
Voltage measurements		
Range	0-1000 V AC or DC	0-1000 V AC or DC
Resolution	0.1 mV to 1.0 V	0.1 mV to 1.0 V
Accuracy	0.1% Rdg+1 LSD (V DC)	0.1% Rdg+1 LSD (V DC)
Current measurement		
Range	0-1 A 0-30 mA	0-1 A 0-30 mA
Resolution	1 mA 0.001 mA	1 mA 0.001 mA
Accuracy	0.2%+2 LSD 0.05%+2 LSD	0.2%+2 LSD 0.05%+2 LSD
Current Sourcing		
Range	0-20 mA or 4-24 mA	0-20 mA or 4-24 mA
Accuracy	0.05% of span	0.05% of span
Other specifications		
Max drive capability	500 Ω	1200 Ω
Loop power	N/A	24 V
Resistance measurement	To 40 MΩ, 0.2%+1 LSD	To 40 MΩ, 0.2%+1 LSD
Frequency	To 19.999 kHz, 0.005%+1 LSD	To 19.999 kHz, 0.005%+1 LSD
Continuity	Beeps for resistance < 100 Ω	Beeps for resistance < 100 Ω
Span Check	No	Yes

Maximum voltage: 1000 V
Operating temperature: -20 to 55°C

789
Size (HxWxD): 203 mm x 100 mm x 50 mm
Weight: 0.6 kg
Battery: Four AA alkaline batteries
Battery life: 14 to 140 hours typical
Warranty: Three years

787
Size (HxWxD): 201 mm x 98 mm x 52 mm
Weight: 0.642 kg
Battery: One 9 V alkaline
Battery life: 12 to 50 hours typical
Warranty: Three years

Included Accessories

787: Yellow Holster (H80M excl. TPAK), TL75 Hard Point Test Lead Set plus AC72 Alligator Clips, one 9V battery, user manual
789: TL71 Test Lead Set plus AC72 Alligator Clips, four 9V AA alkaline batteries, user manual and quick reference guide.

Ordering Information

Fluke 787 ProcessMeter
 Fluke 789 ProcessMeter
 FVF-SC2 FlukeView Forms Software including interface cable

Recommended Accessories



C125
See page 94



TL220
See page 88



80T-150U
See page 92



i400
See page 90



i410
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