

787/789 ProcessMeters

Double your power



Combining the two tools frequently used by every instrumentation technician, the Fluke 780 Series ProcessMeters will be at home in every instrumentation technician's toolbox. The Fluke ProcessMeters combine a DMM and a Loop Calibrator in one rugged, handheld tool.

New in the range is the Fluke 789 ProcessMeter™. With its built-in 24 V loop supply it reduces the need for taking a separate power supply when doing offline transmitter testing.

Safety Conformance

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

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		●

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%+ LSD	
Continuity	Beeps for resistance < 100 Ω		Beeps for resistance < 100 Ω	
Span Check	No		Yes	
Battery life	50 hours typical 12 hours sourcing 12 mA		140 hours typical 10 hours sourcing 12 mA	
Size (HxWxD)	187 mm x 87 mm x 32 mm		203 mm x 100 mm x 50 mm	
Weight	369 g		600 g	
Warranty (years)	3		3	

Accessories and Ordering Information

Included Accessories

787: C81Y Meter Holster (Yellow), TL75 Hard Point Test Lead Set plus AC72 Alligator Clips, one 9V battery, user manuals
789: TL71 Test Lead Set plus AC72 Alligator Clips, four 9V AA alkaline batteries, user manual and quick reference guide.

Optional Accessories

See Accessories Compatibility Guide on pages 41-52

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