

Fluke 789 ProcessMeter

Rating: Not Rated Yet

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Manufacturer [Fluke](#)

Description

Product overview: Fluke 789 ProcessMeter™

Fluke 789 ProcessMeter doubles your troubleshooting power and is Fluke Connect-enabled

The Fluke 789 ProcessMeter is the ultimate troubleshooting tool for electricians and instrumentation professionals. It combines the functionality of a loop calibrator with the power of a digital multimeter, and the wireless capabilities of Fluke Connect connectivity with optional IR3000FC module. The 789 has a display that's not only twice as large as the Fluke 787B, but also twice as bright with two levels of backlighting. And its built-in, selectable 250 ohm HART® resistor eliminates the need to carry a separate resistor.

The 789 also has a 24-Volt loop supply, which reduces the need to carry a separate power supply when doing offline transmitter testing. You can add an optional temperature measurement module and the wireless data logging capabilities of the Fluke Connect™ mobile app to log data wirelessly to your smart phone and review it from a remote location. So now process technicians can do a lot more while carrying a lot less.

Other useful features:

- Includes 0% and 100% buttons to toggle between 4 and 20 mA sourcing for a quick span check
- Provides all standard DMM capabilities including frequency measurement to 20 kHz, Min/Max/Average/Hold/Relative modes, and diode test and continuity beeper
- Simultaneous displays mA and % of scale readings
- Provides 20 mA DC current source/loop calibrator/simulator
- Offers manual step (100%, 25%, Coarse, Fine) plus auto step and auto ramp
- Delivers 0.1% dc voltage accuracy and 0.05% dc current accuracy
- Provides 1200 ohm drive capability on mA source
- Offers HART mode setting with loop power and a built-in 250 ohm resistor
- Offers externally accessible fuses and batteries for easy replacement

Key features

- Ultimate troubleshooting tool for electricians and instrumentation professionals
- Combines the functionality of a loop calibrator with the power of a precision 1000 V, 440 mA True-RMS digital multimeter
- Optional IR3000FC module for wireless data logging capabilities via Fluke Connect® mobile App
- Includes 24 V loop power supply
- Features a very large dual display with enhanced two-level backlight brightness settings

Specifications: Fluke 789 ProcessMeter™

Specifications		
Current measurement	Range	0-1 A AC or DC
	Resolution	1 mA
	Accuracy	0.2% + 2 LSD (DC)
	Range	0-30 mA
	Resolution	0.001 mA
	Accuracy	0.05% + 2 ISD
Current sourcing	Range	0-20 mA or 4-20 mA
	Resolution	0.05% of span
	Drive capability	24 V Compliance or 1200 ? @ 20 mA
Frequency	to 19.999 kHz, 0.005% + 1 LSD	
Continuity	Beeps for resistance < 100 ?	
Voltage measurement	Range	0-1000 V AC (true-rms) or DC
	Resolution	0.1 mV to 1.0 V
	Accuracy	0.1% Rdg + 1 LSD (VDC)
Resistance measurement	to 40 M?, 0.2% + 1 LSD	
Diode test	2.0 V shoes diode voltage drop	
Display current and % of span	Yes	
Auto Step, Auto Ramp	Yes	
Environmental Specifications		
Operating temperature	-20°C to 55°C	
Storage temperature	-40°C to 60°C	
Humidity (without condensation)	95% up to 30°C	
	75% up to 40°C	
	45% up to 50°C	
	35% up to 55°C	
Temperature coefficient	0.05 x (specified accuracy) per °C (for temperatures < 18°C or > 28°C)	
Safety Specifications		
Electrical safety	Designed in accordance with IEC 1010-1, ANSI/ISA S82.01-1994 and CAN/CSA C22.2 No 1010.1-92	
Overvoltage category	IEC 1010-1 CAT III 1000 V IEC 1010-1 CAT IV 600 V	
Maximum voltage	1000 V RMS	
Mechanical and General Specifications		
Size (H x W x L)	50 x 100 x 203 mm (1.25 x 3.41 x 7.35 in)	
Weight	610 g (1.6 lbs)	
Batteries	4 AA alkaline batteries	
Warranty	3 years	
Battery life	140 hours typical (measurement), 10 hours typical (sourcing 20 mA)	
Shock and vibration	Random, 2 g, 5-500 Hz	
	1 meter drop test	