

# Fluke 789 ProcessMeter™

Specifications	
Current Measurement	<b>Range:</b> 0-1 A AC or DC <b>Resolution:</b> 1 mA <b>Accuracy:</b> 0.2% + 2 LSD (DC) <b>Range:</b> 0-30 mA <b>Resolution:</b> 0.001 mA <b>Accuracy:</b> 0.05% + 2 LSD
Current Sourcing	<b>Range:</b> 0-20 mA or 4-20 mA <b>Resolution:</b> 0.05% of span <b>Drive Capability:</b> 24 V Compliance or 1200 Ω @ 20 mA
Frequency	to 19.999 kHz, 0.005% + 1 LSD
Continuity	Beeps for resistance < 100 Ω
Voltage measurement	<b>Range:</b> 0-1000 V AC (true-rms) or DC <b>Resolution:</b> 0.1 mV to 1.0 V <b>Accuracy:</b> 0.1% Rdg + 1 LSD (VDC)
Resistance measurement	to 40 MΩ, 0.2% + 1 LSD
Diode test	2.0 V shows 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 & General Specifications	
Size	50 x 100 x 203 mm (1.25" H x 3.41"W x 7.35" L)
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 & Vibration	Random, 2 g, 5-500 Hz 1 meter drop test