

Specifications: Fluke 787 ProcessMeter Digital Multimeter

Specifications

Current measurement	Range	0-1 A
	Resolution	1 mA
	Accuracy	0.2% + 2 LSD
	Range	0-30 mA
	Resolution	0.001 mA
	Accuracy	0.05% + 2 LSD
Current sourcing	Range	0-20 mA or 4-20 mA
	Resolution	0.05% of span
	Drive Capability	500 Ω @ 24 mA
Frequency	To 19.999 kHz, 0.005% + 1 LSD	
Continuity	Beeps for resistance < 100 ohms	
Voltage measurement	Range	0-1000 V AC or DC
	Resolution	0.1 mV to 1.0 V
	Accuracy	0.1% R _{dg} + 1 LSD (VDC)
Resistance measurement	To 40 M Ω , 0.2% + 1 LSD	
Diode test	2.4 V shows diode voltage drop	
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
Maximum voltage	1000 V rms

Mechanical and General Specifications

Size	32 x 87 x 187 mm
Weight	369 g
Batteries	Single 9 V Alkaline battery (ANSI/NEDA 1604A or IEC 6LR61)
Warranty	3 years
Battery life	50 hours typical (measurement), 12 hours typical (sourcing 12 mA)
Shock and vibration	Random, 2 g, 5-500 Hz 1 meter drop test
Display current and % of span	Yes
Auto step, auto ramp	Yes