

Fluke 787 ProcessMeter™ Specifications

[Product Home](#) | [Features](#) | [Specifications](#) | [Models, Options & Accessories](#) | [Manuals](#)

- [Technical Data](#)
- [Measurement Accuracy](#)
- [General Specifications](#)

Technical Data

DC Current Output (Internal battery operation)	Range and Resolution 0.000 to 20.000 mA or 4.000 to 20.000 mA (selectable at power-up). Over-range to 24.000 mA Drive Capability 12 V compliance, or 500 ohms @20 mA Accuracy (% of span) 0.05 %
DC Current Simulate (External 24 volt loop supply)	Range and Resolution 0.000 to 20.000 mA or 4.000 to 20.000 mA (selectable at power-up). Over-range to 24.000 mA Drive Capability 1000 ohms @20 mA Accuracy (% of span) 0.05 %
Current Adjustment Modes	Range and Resolution Manual: Coarse Fine: 25% step Automatic: Slow Ramp, Fast Ramp, 25% step

Measurement Accuracy

VDC	Range and Resolution: 400.0 mV, 4.000V, 40.00V, 400.0V, 1000V Best Accuracy (% of reading + LSD): 0.1% + 1
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VAC (true RMS) to 1 kHz *	Range and Resolution: 400.0 mV, 4.000V, 40.00V, 400.0V, 1000V Best Accuracy (% of reading + LSD): 0.7% + 2
mA DC	Range and Resolution: 30.000 mA Best Accuracy (% of reading + LSD): 0.05% + 2
A DC	Range and Resolution: 1.000 A (0.440 A continuous) Best Accuracy (% of reading + LSD): 0.2% + 2
A AC	Range and Resolution: 1.000 A (0.440 A continuous) Best Accuracy (% of reading + LSD): 1% + 2
Resistance	Range and Resolution: 400.0 Ohms, 4.000 kOhms, 40.00 kOhms, 400.0 kOhms, 4.000 MOhms, 40.00MOhms Best Accuracy (% of reading + LSD): 0.2% + 1
Frequency (0.5 Hz to 20 kHz)	Range and Resolution: 199.99 Hz, 1999.9 Hz, 19.999 kHz, 199.99 kHz Best Accuracy (% of reading + LSD): 0.005% + 1
Diode Test	Range and Resolution: 2.400 V (measures diode voltage drop) Best Accuracy (% of reading + LSD): 2% + 1
Continuity	Range and Resolution Beeps for resistance < approx. 100 ohms

*For measurement of adjustable speed motor drive output, consider the Fluke 39, 41 or 43 power quality analyzers.

General Specifications

Maximum voltage applied between any jack and Earth Ground	1000 V rms
Storage Temperature	-40 °C to 60 °C
Operating Temperature	-20 °C to 55 °C
Temperature Coefficient	0.05 x (specified accuracy) per °C (for temperatures < 18 °C or > 28 °C)
Relative Humidity	95% up to 30 °C; 75% up to 40 °C; 45% up to 50 °C; 35% up to 55 °C

Vibration	Random, 2g, 5-500 Hz
Shock	1 meter drop test
Safety	Designed in accordance with IEC 1010-1, ANSI/ISA S82.01-1994 and CAN/CSA C22.2 No. 1010.1-92 Overvoltage Category III
Size	32 mm H x 87 mm W x 187 mm L (1.25 in H x 3.41 in W x 7.35 in L)
Size, with holster and Flex-Stand	52 mm H x 98 mm W x 201 mm L (2.06 in H x 3.86 in W x 7.93 in L)
Weight	369 g (13 oz); with holster and Flex-Stand 638 g (22.5 oz)
Battery	Single 9V Alkaline battery (ANSI/NEDA 1604A or IEC 6LR61)
Battery Life	50 hours typical (measurement), 12 hours typical (sourcing 12 mA)
Warranty	3 years