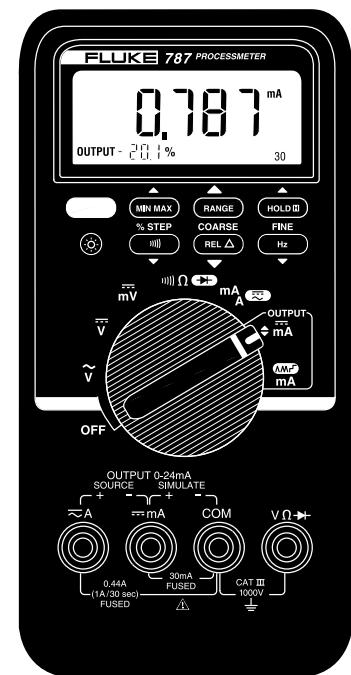


Fluke 787 ProcessMeter™

Double Your Power

The Fluke-787 ProcessMeter™ combines a DMM and a Loop Calibrator in one rugged, handheld tool - for about what you would expect to pay for a loop calibrator alone. The 787 starts with the Fluke-87 DMM you know and trust, then adds ability to measure, source, and simulate DC loop current with 0.05% accuracy and 1 micro-amp resolution. When you carry the ProcessMeter™, you're ready for any loop troubleshooting or calibration task. And since it's dust- and splash-resistant and EMI-shielded, the 787 can survive in your tool belt.

- DMM and Loop Calibrator in one tool
- Precision 1000V, 440 mA digital Multimeter
 - Measure AC and DC volts, AC and DC current, resistance, continuity, and frequency
 - 0.1% DC voltage accuracy
 - 0.05% DC current accuracy, 1 uA resolution to 30 mA
 - Simultaneous mA and % of scale readout
 - True RMS AC voltage measurement to 1 kHz
 - Frequency measurement to 20 kHz
 - Min/Max/Average/Hold/Relative modes
 - Diode Test and Continuity Beeper
- DC current source / loop calibrator
 - 20 mA current source / simulator
 - Simultaneous mA and % of scale readout
 - Manual Step (25%, Coarse, Fine) plus Auto Step and Auto Ramp
- Clear LCD with backlight; 4,000 counts (30,000 counts for DC current)
- Externally accessible battery for easy battery changes
- V overload protection on V, ohms, frequency
- V overload protection on mA, backed-up by 440 mA 1000V fuse
- Designed to meet 1000 volt IEC 1010 Cat III standards



Measurement Function	Range and Resolution	Best Accuracy (% of reading + LSD)
VDC	400.0 mV, 4.000V, 40.00 V, 400.0 V, 1000 V	0.1% + 1
VAC (true RMS)	400.0 mV, 4.000V, 40.00 V, 400.0 V, 1000 V	0.7% + 4
mADC	30.000 mA	.05% + 2
A DC	1.000 A (0.440A continuous)	0.2% + 2
A AC	1.000 A (0.440A continuous)	1% + 2
Resistance	400.0 Ohms, 4.000k, 40.00 k, 400.0 k, 4.0 M, 40M	0.2% + 1
Frequency (0.5 Hz to 20 kHz)	199.99 Hz, 1999.9 Hz, 19.999 kHz	.005% + 1
Diode Test	2.400 V (shows diode voltage drop)	2% + 1
Continuity	Beeps for resistance < approx 100 ohms	

Output Function	Range and Resolution	Drive Capability	Accuracy (% of span)
DC Current Output (Internal battery operation)	0.000 to 20.000 mA or 4.000 to 20.000 mA (selectable at power-up) Over-range to 24.000 mA	12 V compliance, or, 500 Ohms, @ 20 mA	.05%
DC Current Simulate (Ext. 24 Volt loop supply)	0.000 to 20.000 mA or 4.000 to 20.000 mA, (selectable at power-up) Over-range to 24.000 mA	1000 Ohms, @ 20 mA	.05%
Current adjustment modes	Manual: Coarse, Fine, 25% step Automatic: Slow Ramp, Fast Ramp, 25% step		

Temperature range of 18° C to 28° C, for one year after calibration

Observe battery condition

Activate Touch Hold mode

Record Min, Max, and Avg Readings

Choose Relative, Continuity, or Diode Test modes

The display shows a large digital readout of 0.0000 mA. Above the digits is a 'HOLD' indicator. To the right, it shows 'MINMAXAVG' and 'REC' indicators. Below the main display, it shows 'OUTPUT -188.8%' and a waveform icon. At the bottom right, it says 'Auto 400100030'. On the far right, it lists units: mA, mV DC, AC, M Ω , kHz.

View input or output value, units, and range directly

Know when current OUTPUT is active

View both mA and % Scale values at the same time

Select automatic mA output in slow ramp fast ramp, or 25% staircase steps

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 Over-voltage 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

Optional accessories

80T-IR Infrared Temperature Probe
80TK Thermocouple Module
80T-150U Universal Temperature Probe
TL20 / TL22 / TL24 / TL 26 / TL28 TL70A Y8140A Test Lead Sets
AC20 / AC80 Clips
TP20 Industrial Test Probes
80I-400 AC Current Clamp
i-410 AC/DC Current Clamp
i-1010 AC/DC Current Clamp
C25 / C28 / C90 / C100 / C800 Cases
C81G Holster Grey
80K-6 and 80K-40 High Voltage Probes
83RF and 85RF High Frequency Probes
PV350 Pressure Vacuum Module
Fiber Optic Meter FOM

Ordering Information

Fluke-787 ProcessMeter, including:

- C81Y protective yellow holster with Flex-Stand™
- TL75 Safety-designed test lead set plus AC70A Alligator Clips
- One 9V alkaline battery (installed)
- Users Manual and Quick Reference Guide

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Certifications:

- IEC 1010-1 1000V Cat III
- ISO 9000

