

Fluke 787B ProcessMeter

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Manufacturer [Fluke](#)

Description

Product overview: Fluke 787B ProcessMeter™

The Fluke 787B ProcessMeter™ doubles troubleshooting capabilities by combining the power of a safety rated digital multimeter and mA loop calibrator into a single, compact test tool. Based on the trusted measurement capabilities of the Fluke 87 DMM, the 787B adds the ability to measure, source and simulate mA with the accuracy and resolution you would expect from a Fluke mA loop calibrator, giving you the ideal tool for troubleshooting and calibrating current loop applications. With Fluke Connect® mobile app and desktop software compatibility technicians can wirelessly monitor, log, and share data from the field with their team anytime.

Key features

- 20 mA dc current source/measure/simulate
- Simultaneous mA and % of scale readout
- DMM designed to meet 1000 volt IEC 61010 CAT III and 600 V CAT IV standards
- Fluke Connect® compatibility for wireless data logging (with IR3000FC module*)
- Precision 1000 V, 440 mA true-rms digital multimeter
- Frequency measurement to 20 kHz
- Min/Max/Average/Hold/Relative modes
- Diode test and continuity beeper
- Manual step (100%, 25%, Coarse, Fine) plus Auto Step and Auto Ramp
- Externally accessible battery for easy battery changes

Specifications: Fluke 787B ProcessMeter

| Measurement function | Range and resolution | Best accuracy (% of reading + LSD) |
|----------------------|---|------------------------------------|
| V dc | 400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V | 0.1% + 1 |
| V ac (true-rms) | 400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V | 0.7% + 2 |
| mA dc | 30.000 mA | .05% + 2 |
| A dc | 1.000 A (0.440 A continuous) | 0.2% + 2 |
| A ac | 1.000 A (0.440 A continuous) | 1% + 2 |
| Resistance | 400.0 Ohms, 4.000 k, 40.00 k, | 0.2% + 1 |

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|---|--|---|----------------------|
| | 400.0 k, 4.0 M, 40 M | | |
| Frequency (0.5 Hz to 20 kHz) | 199.99 Hz, 1999.9 Hz, 19.999 kHz | .005% + 1 | |
| Diode test | 2.000 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 | 24 V compliance or, 1,200 ohms, @ 20 mA | 0.05% |
| DC current simulate (Ext. 15 V to 48 V 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 | 0.05% |
| Current adjustment modes | Manual: Coarse, Fine, 25% and 100% step Automatic: Slow Ramp, Fast Ramp, 25% step | | |
| Temperature range of 18 °C to 28 °C, for one year after calibration | | | |
| 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, 2 g, 5-500 Hz | | |
| Shock | 1 meter drop test | | |
| Safety | IEC61010-1, Pollution Degree 2/IEC61010-2-033, CAT IV 600 V/CAT III 1000 V | | |
| Size (HxWxL) | 50 x 100 x 203 mm (1.97 x 3.94 x 8.00 in) | | |
| Weight | 600 g (1.3 lbs) | | |
| Battery | Four AA alkaline batteries | | |
| Battery life | 140 hours typical (measurement), 10 hours typical (sourcing 12 mA) | | |