

FLUKE 787B ProcessMeter Digital Multimeter and Loop **Calibrator Instruction Manual**

Home » FLUKE » FLUKE 787B ProcessMeter Digital Multimeter and Loop Calibrator Instruction Manual







Contents

- 1 Key features
- 2 Product overview: Fluke 787B

ProcessMeter™

- 3 Specifications: Fluke 787B ProcessMeter™
- 4 Ordering information
- **5 Documents / Resources**
 - **5.1 References**

Key features

- · Compact digital multimeter and mA loop calibrator solution
- Measure/Source/Simulate loop currents while powering the loop
- Manual and automatic ramp up ramp down functions
- · Easy-to-read backlit display

Product overview: Fluke 787B ProcessMeter™

The Fluke 787B ProcessMeter™ doubles your 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 87V meter, 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, from anywhere.* If you're looking for even more troubleshooting power, the Fluke 789 ProcessMeter™ offers technicians even more flexibility, and even includes a built-in 24 V loop power supply. *Requires Fluke IR3000FC module (not included). Not all models are available in all countries. Check with your local Fluke representative.

Expand your troubleshooting capabilities

The Fluke 787B not only allows you to source, measure and simulate 20 mA DC current but also allows you simultaneously look at mA and percent of scale readouts so you can easily compare readings to what you see on your controller. Manually step mA signals (100%, 25%, Coarse adjustment, Fine adjustment) or use the Auto step and Auto ramp feature to work even more efficiently.

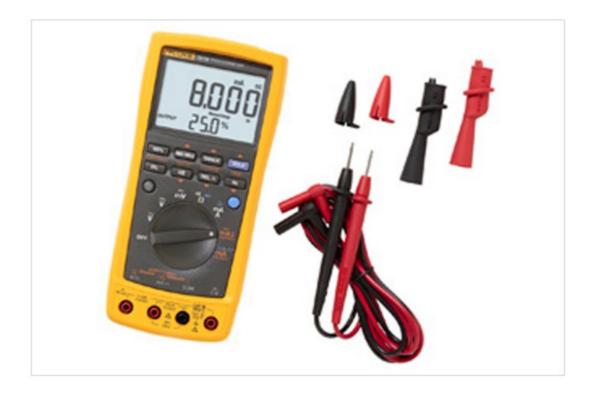
Designed to meet 1000 V IEC 61010 CAT III and 600 V CAT IV standards, the Fluke 787B is also a full-featured, precision, true-rms digital multimeter with standard features for diode testing and a continuity beeper. Troubleshoot more, while carrying less. The 787B also allows you to make frequency measurements to 20 kHz and includes Min/Max/Average/Hold/Relative modes for easy operation. Even the batteries and fuses are easily accessible allowing you to make fast, easy changes.

Specifications: Fluke 787B ProcessMeter™

Measurement function	Range and resolution	Best accuracy (% of reading LSD)	
	-IC.I C. m ,, 4 J1 43.00 V, 400.0 V. 1000 V	0_i – i	
i true-rms)	400.0 my, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.7%+ 2	
r. 1C	30.000 mA	.05% + 2	
	1.000 A (0.440 A continuous)	0.2% + 2	

	1.000 A (0.440 A continuous)		1% + 2		
stance	400.0 Ohms, 4.000 k	0.2% + 1			
:Jency (0.5 Hz to 20 kHz)	199.99 Hz,1999.9 Hz,	.005% + 1			
test	2.000 V (shows diode voltage drop)		2% + 1		
• nuity	Beeps for resistance c approx. 100 ohms				
•-: it function	Range and resolution	Drive capa bility	Accuracy (% of span)		
:urrent output (Internal batter y anon)	0.000 to 20.000 mA of ble at power-up) Over-	24 V compliance or, 1,200 o hms, @ 20 mA	0.05%		
DC current simulate (Ext. 15 V to 48 V loop supply)	0.000 to 20.000 mA of ble at power-up) Over-	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 aft	ter calibration			
General specifications					
Maximum voltage applied between any jack and ear th 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 (sourc ing 12 mA)			
Warranty		Three years			

Ordering information



Fluke 787B ProcessMeter™ Fluke 787B ProcessMeter™ Includes:

- TL71 Premium test lead set
- AC72 Alligator clips
- Four AA alkaline batteries (installed)
- Quick reference guide



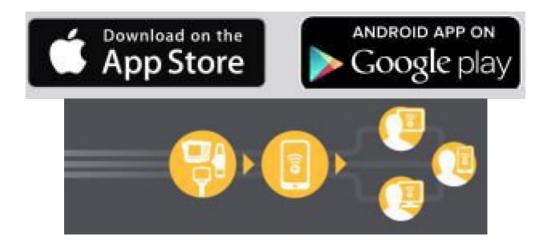
Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect TM system.

• Eliminate data-entry errors by saving measurements directly from the tool and associating them with the work

order, report or asset record.

- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- · Access baseline, historical and current measurements by asset.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Share your measurement data using ShareLive[™] video calls and emails.
 Find out more at <u>flukeconnect.com</u>



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Fluke. Keeping your world up and running.®

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https://www.fluke.com/en/product/calibration-tools/ma-loop-calibrators/fluke-787b

Documents / Resources



FLUKE 787B ProcessMeter Digital Multimeter and Loop Calibrator [pdf] Instruction Manual 787B ProcessMeter Digital Multimeter and Loop Calibrator, 787B, ProcessMeter Digital Multimeter and Loop Calibrator, Multimeter and Loop Calibrator, Calibrator, Calibrator

References

• Fluke Connect tools and software for preventive maintenance and condition monitoring

- O Fluke Connect tools and software for preventive maintenance and condition monitoring
- Fluke Industrial Electrical Test Tools | Thermal Imaging | Calibration
- Fluke Connect tools and software for preventive maintenance and condition monitoring
- Fluke ir3000 FC Connector | Fluke
- Fluke 787B ProcessMeter™ Digital Multimeter & Loop Calibrator | Fluke
- Fluke 789 ProcessMeter™ | Ultimate Electrician Tool | Fluke
- Fluke Multimeter | Fluke 87V True-RMS Industrial Multimeter | Fluke
- Fluke Connect | Fluke

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