

Process Calibrators

➤ 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

1. Fluke 787B ProcessMeter™



➤ **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

• **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, 400.0 k, 4.0 M, 40 M	0.2% + 1

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)
Warranty	Three years