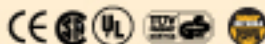


New
Product



Fluke ProcessMeter™ Test Tools. Double your power.

The Fluke 787 was the first tool in the industry to combine a loop calibrator with a DMM, giving process technicians double the power in one tool. Now it's even better. Announcing the new Fluke 789 ProcessMeter, the ultimate loop calibration multimeter.



Fluke 789 ProcessMeter

The Fluke 789 has a display that's not only twice as large, but twice as bright with two levels of backlighting. And, with its built-in selectable 250 ohm HART resistor, it eliminates the need to carry a separate resistor with you.

Now process technicians can do a lot more while carrying a lot less.

New features:

- 24 V loop power supply
- HART mode setting with loop power (adds 240 ohm resistor)
- Double-sized dual display
- 20 mA drive into 1200 ohms
- Enhanced backlight with two brightness settings
- Improved battery power with four AA batteries
- 0- 100 % mA Span Check buttons to toggle from 4-20 mA
- Infrared I/O serial port compatible with FlukeView® Software
- 5 V measurement capability on the 4 V range for precise 1-5 V measurements
- **PLUS** all the proven 787 features

Fluke 787 ProcessMeter

- Simultaneous mA and % of scale readout on mA output
- 25 % Manual Step plus Auto Step and Auto Ramp on mA output
- Clear LCD with backlight; 4,000 counts (30,000 counts for dc current)
- Min/Max/Average/Hold/Relative modes
- Externally accessible battery for easy battery changes
- CAT III 100 V safety-rated multimeter

Ordering information

Fluke-789 ProcessMeter

Includes: TL71 Premium Safety-Designed Test Lead Set plus Alligator Clips, 4 AA alkaline batteries (installed), product overview and users manual (CD-ROM) in 14 languages.

Fluke-787 ProcessMeter

Includes: CB1Y Protective Yellow Holster with Flex-Stand™, TL75 Safety-Designed Test Lead Set plus AC70A Alligator Clips, one 9V alkaline battery (installed), product overview and users manual (CD-ROM) in 14 languages.

789 and 787 Specifications (18 °C to 28 °C, one year)

Measurement Function	Best Accuracy Range and Resolution	(% of reading + LSD)
VDC	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.1 % + 1
VAC (true-rms) to 500Hz	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.7 % + 2
mADC	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	789: 2.000 V (shows diode voltage drop)	2 % + 1
	787: 2.400 V (shows diode voltage drop)	
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 %
24 V Loop Supply	789: Minimum 24 V 787: not available	250 Ohms @ 20 mA	> 24 V
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

General specifications for the Fluke 789 ProcessMeter™ and Fluke 787 ProcessMeter™

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: One meter drop test

Safety (789 and 787): Designed in accordance with EN61010-1, ANSI/ISA S82.01-1994 and CAN/CSA C22.2 No. 1010.1-92 Over-voltage Category III

Size/weight (787): 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), 369 g (13 oz)

Size/weight (787 with holster and FlexStand™):

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), 22.5 oz

Size/weight (789): 50 mm H x 100 mm W x 203 mm L (1.97 in H x 3.94 in W x 8.00 in L), 600 g (1.3 lbs)

Battery (787): Single 9 V Alkaline battery (ANSI/NEDA 1604A or IEC 6LR61)

Battery life (787): 50 hours typical (measurement), 12 hours typical (sourcing 12 mA)

Battery (789): Four AA alkaline batteries

Battery life (789): 140 hours typical (measurement), 10 hours typical (sourcing 12 mA)

Warranty: Three years

Optional accessories

80T-IR Infrared Temperature Probe

80TK Thermocouple Module

80T-150U Universal Temperature Probe

TL20/TL22/TL24/TL/26/TL28/TL70A/TL40A 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

80K-6 and 80K-40 High Voltage Probes

83RP and 85RP High Frequency Probes

PV350 Pressure Vacuum Module

Fiber Optic Meter FOM

LockPak

ToolPak