

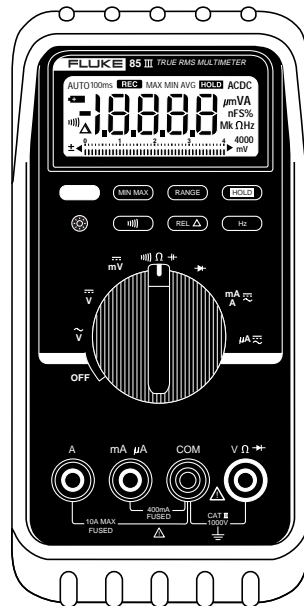
Fluke 80 Series III Multimeters

How to beat a leader

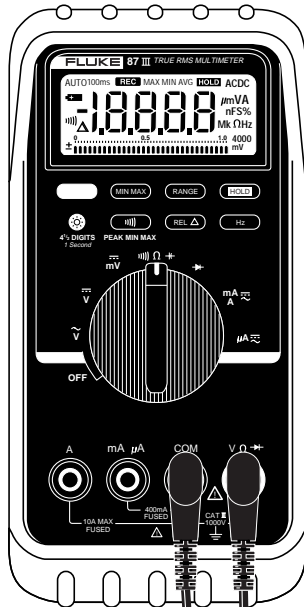
Model 83 III



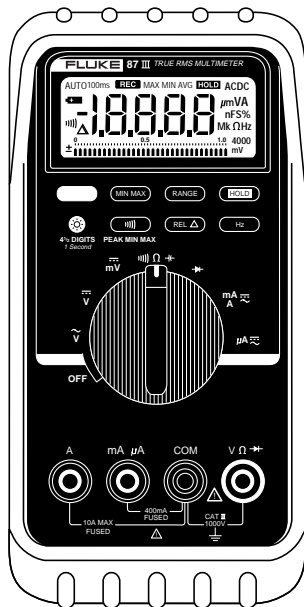
Model 85 III



Model 87/E III



Model 87 III



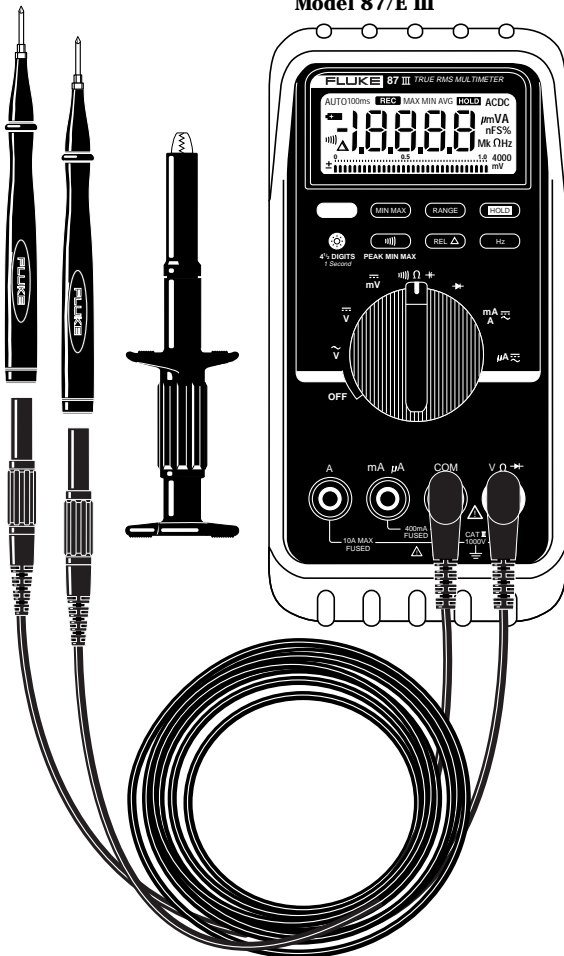
Introducing the versatile, new Fluke 80 Series III Digital Multimeters

Since their introduction, Fluke 80 Series Digital Multimeters (DMMs) have led the industry in versatile performance, accuracy, and rugged durability. Now the new Fluke 80 Series III DMMs push that lead even further. With a host of new features that increase accuracy, improve safety, and make the 80 Series III easier than ever to use. Look at everything the new 80 Series III has to offer:

- An LED backlight on *all* models for easier reading under virtually any light conditions
- New LCD display with larger digits and better viewing angle for easy reading from a distance
- 4¹/₂-digit resolution to detect subtle changes (87, 87/E)
- MIN/MAX to record the minimum, maximum, and average reading over time. The 87 and 87/E now offer new 250 μS peak MIN/MAX for true peak transient capture
- Significantly improved basic dc accuracy on all models
- Improved EMI shielding for stable readings around electrically noisy devices such as variable speed motor drives
- CAT III 1000V safety rated IEC 61010-1 to withstand power surges up to 8 kV
- Battery access door that enables changing batteries without breaking the calibration seal
- Alligator clips included
- Lifetime warranty

A special 87/E Series III bonus

Each Fluke 87/E Series III DMM includes a premium electrician's test lead set, consisting of extra long silicone test leads, removable test probes, and one black alligator clip to make convenient ground connections.



Discover all the ways Fluke's high-quality line of meters just got better

Fluke 80 Series III	83 III	85 III	87 III	87/E III
True-rms ac readings so you get the correct measurement, even when harmonics are present.		•	•	•
Large, high-contrast, easy-to-read digital display with an analog pointer.			•	•
Large, high-contrast, easy-to-read digital display with an analog bar graph.	•	•		
Backlit display with on/off controls for easy viewing in all light conditions.	•	•	•	•
Automatic Touch Hold® automatically triggers the meter to capture stable non-zero readings, freeing you to focus on the test probes.	•	•	•	•
Meets IEC 61010-1 safety standards for CAT III 1000V. Protected from overvoltage transients to 8 kV per IEC 61010-1.	•	•	•	•
250 µS Peak MIN/MAX for capturing fast transients.			•	•
4 ¹ / ₂ -digit mode, 20,000-count display for high resolution readings.			•	•

Feature	83 III	85 III	87 III	87/E III
Digital Display	4000 Count	4000 Count	4000 Count*	4000 Count*
Analog Display	43 Seg Bargraph	43 Seg Bargraph	32 Seg Pointer	32 Seg Pointer
True-rms		•	•	•
Touch Hold®	•	•	•	•
Fused Amps Inputs	•	•	•	•
Continuity	•	•	•	•
MIN MAX Mode	•	•	•	•
Peak MIN MAX			250 µSec	250 µSec
Relative Mode	•	•	•	•
Diode Test	•	•	•	•
Sleep Mode	30 Minutes	30 Minutes	30 Minutes	30 Minutes
IEC 1010 Rating	CAT III - 1000V	CAT III - 1000V	CAT III - 1000V	CAT III - 1000V
DCV				
Maximum Voltage	1000V	1000V	1000V	1000V
Accuracy	±(0.1% +1)	±(0.08% +1)	±(0.05% +1)	±(0.05% +1)
Maximum Resolution	0.1 mV	0.1 mV	0.1 mV	0.1 mV
ACV				
Maximum Voltage	1000V	1000V	1000V	1000V
Accuracy	±(0.5% +2)	±(0.7% +2)	±(0.7% +2)	±(0.7% +2)
Maximum Resolution	0.1 mV	0.1 mV	0.1 mV	0.1 mV
DC Current				
Maximum Amps	10A	10A	10A	10A
Amps Accuracy	±(0.4% +2)	±(0.2% +2)	±(0.2% +2)	±(0.2% +2)
Maximum Resolution	0.01 mA	0.1 µA	0.1 µA	0.1 µA
AC Current				
Maximum Amps	10A	10A	10A	10A
Amps Accuracy	±(1.2% +2)	±(1.0% +2)	±(1.0% +2)	±(1.0% +2)
Maximum Resolution	0.1 µA	0.1 µA	0.1 µA	0.1 µA
Resistance				
Maximum Resistance	40 MΩ	40 MΩ	40 MΩ	40 MΩ
Accuracy	±(0.4% +1)	±(0.2% +1)	±(0.2% +1)	±(0.2% +1)
Maximum Resolution	0.1Ω	0.1Ω	0.1Ω	0.1Ω
Capacitance	1 nF - 5 µF	1 nF - 5 µF	1 nF - 5 µF	1 nF - 5 µF
Frequency	0.5 Hz to 200 kHz	0.5 Hz to 200 kHz	0.5 Hz to 200 kHz	0.5 Hz to 200 kHz

*20,000 count on high resolution mode.

Ordering Information

Fluke 83 Series III Digital Multimeter
 Fluke 85 Series III Digital Multimeter
 Fluke 87 Series III Digital Multimeter
 Fluke 87/E Series III Digital Multimeter

Need Technical Assistance? Call:

1-800-44-FLUKE

Toll-free in the U.S.

(905) 890-7600 in Canada

(425) 356-5500 other countries

For more information to be sent to you by fax, call 1-800-FLUKE-FAX in the U.S. and Canada. Or, visit our Website at <http://www.fluke.com>

Fluke. Keeping your world up and running.