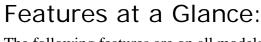
Fluke 80 Series III Digital Multimeters Features





The following features are on all models unless otherwise noted. See chart below for more details.

- Digital Display
 - 83 III, 85 III 4,000 count
 - 87 III, 87/E 4,000 count, 20,000 count in high-resolution mode
- Analog Display
 - 83 III, 85 III 43 Seg Bar Graph
 - 87 III, 87/E 32 Seg Pointer
- True-rms (85 III, 87 III and 87/E only)
- Touch Hold,
- Fused Current Inputs

- Continuity
- MIN/MAX Mode
- Peak MIN/MAX 250 μSec (87 III and 87/E only)
- Relative Mode
- Diode Test
- Sleep Mode 30 minutes
- IEC 61010 Rating CATIII-1000V
- Battery access door that enables changing batteries without breaking the calibration seal.

Fluke 80 Series III	83/III	85/III	87/III	87/E
True-rms ac readings to deliver 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 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.			•	•
41/z digit mode, 20,000-count display for high-resolution readings.			•	•

DCV	Maximum Voltage: 1000V	
	Accuracy: Fluke 83 III: ±(0.1%+1)	
	Fluke 85 III: ±(0.08%+1)	
	Fluke 87 III: ±(0.05%+1)	
	Fluke 87/E: ±(0.05%+1)	
	Maximum Resolution: 0.1 mV	
ACV	Maximum Voltage: 1000V	
AOV	Accuracy:	
	Fluke 83 III: ±(0.5%+2)	
	Fluke 85 III: ±(0.7%+2)	
	Fluke 87 III: ±(0.7%+2)	
	Fluke 87/E: ±(0.7%+2)	
	Maximum Resolution: 0.1 mV	
DC Current	Maximum Amps: 10A	
	Amps Accuracy:	
	Fluke 83 III: ±(0.4%+2)	
	Fluke 85 III: ±(0.2%+2)	
	Fluke 87 III: ±(0.2%+2)	
	Fluke 87/E: ±(0.2%+2)	
	Maximum Resolution:	
	Fluke 83 III: 0.01 mA	
	Fluke 85 III: 0.1 μA	
	Fluke 87 III: 0.1 µA	
	Fluke 87/E: 0.1 μA	
AC Current	Maximum Amps: 10A	
	Amps Accuracy:	
	Fluke 83 III: ±(1.2%+2)	
	Fluke 85 III: ±(1.0%+2)	
	Fluke 87 III: ±(1.0%+2)	
	Fluke 87/E: $\pm (1.0\% + 2)$	
	Maximum Resolution: 0.1 μA	
Resistance	Max Resistance: $40 \text{ M}\Omega$	
	Accuracy:	
	Fluke 83 III: $\pm (0.4\% + 1)$	
	Fluke 85 III: ±(0.2%+1)	
	Fluke 87 III: ±(0.2%+1)	
	Fluke 87/E: ±(0.2%+1)	
	Maximum Resolution: 0.1Ω	
Capacitance	1 nF-5μF	