

# The Fluke 80 Series IV Analog/Digital Multimeters

**Speed. Accuracy. Resolution. And more.**

**True-rms**



**New**



The Fluke 87 and 89 Series IV DMMs deliver breakthrough performance with a wealth of new features, ranges and accuracy that will help make your job easier, such as :

- 0.025% basic dc accuracy
- 50 000 counts resolution with instant readings for detailed analyses
- 100 kHz ac bandwidth for troubleshooting modern electronics
- Internal memory for stand-alone logging and storage of up to 1000 measurements for later viewing or uploading to optional FlukeView Forms Software (89-IV only)
- MIN MAX to record and timestamp values in elapsed time with reference to real time clock. Fast MIN MAX captures peaks to 250  $\mu$ S

- Temperature readings in °C or °F using optional K-type thermocouple and 80AK thermocouple adapter
- Enhanced ranges, such as dc voltage measurements down to 10  $\mu$ V and capacitance up to 50 000  $\mu$ F
- Multiple reading display with bargraph and two-level backlight
- ToolPak accessory for hanging your meter and LockPak accessory for locking your meter (see page 39)

**Safety Conformance**

All inputs are protected to EN61010-1 CAT III 1000V. UL, CSA, VDE and TÜV listed.

## Features

	87-IV	89-IV
Basic dc accuracy of 0.025% digits at 50 000 counts	•	•
50,000 counts primary display for high resolution measurement readings	•	•
Dual display with two level backlight	•	•
True-rms ac, ac + dc	•	•
100 kHz ac bandwidth	•	•
dBm, dBV	•	•
Duty cycle/pulse width	•	•
250 $\mu$ s fast MIN MAX	•	•
MIN/MAX/AVERAGE time-stamped with a real time clock	•	•
Temperature measurements in °C and °F using K-type thermocouple + adapter	•	•
Battery and fuse access door	•	•
Digital Display/Counts	•	•
PC interface for closed case calibration	•	•
Stand-alone logging to internal memory locations of up to 1000 measurements	•	•
Optional FlukeView Forms Software	•	•



## Accessories and Ordering Information

**Included Accessories**

Every 87-IV and 89-IV comes packaged with TL71 silicone testleads, probe holder, two AC70A alligator clips, 4 AA batteries (installed), manual and operator's guide.

**Optional Accessories**

See Accessories Compatibility Guide on page 32-39

**Ordering Information**

FLUKE 87 IV

FLUKE 89 IV

SW89 FlukeView Software

SC89 FlukeView Software + IR adapter/cable

Visit us on the world wide web at : <http://www.fluke.com>

Function	Range & Resolution	Best Accuracy	
		87-IV	89-IV
VDC	50.000 mV, 500.00 mV, 3000.0 mV, 5.0000V, 50.000V, 500.00V, 1000.0V	$\pm(0.025\% + 10)$	$\pm(0.025\% + 5)$
VAC	50.000 mV, 500.00 mV, 3000.0 mV, 5.0000V, 50.000V, 500.00V, 1000.0V	$\pm(0.4\% + 40)$	
ADC	500.00 $\mu$ A, 5.0000 $\mu$ A, 50.000 mA, 400.00 mA, 5.0000A, 10.000A*	$\pm(0.15\% + 2)$	
AAC	500.00 $\mu$ A, 5.0000 $\mu$ A, 50.000 mA, 400.00 mA, 5.0000A, 10.000A*	$\pm(0.75\% + 5)$	
Resistance	500 $\Omega$ - 30.00 M $\Omega$	$\pm(0.05\% + 2)$	
Capacitance	1.100 nF - 50.00 mF	$\pm(1.00\% + 5)$	
Conductance	50.00 ns	$\pm(1\% + 10)$	
dBm and dBV	- 56/+60	$\pm 0.1$ dB	
Frequency	500.00 Hz, 5.0000 kHz, 50.000 kHz, 999.99 kHz	$\pm(0.005\% + 1)$	
Temperature	-200 to 1350°C; -328 to 2462 °F	$\pm(1\% + 1^\circ\text{C})$	

\*10 A continuous, 20 A for up to 30 seconds and not specified

**Range & Resolution:** If selected range is 5.0000V the resolution is 0.0001V in that range

**Battery life:** 72 hours typical (alkaline)

**Size (HxWxD):** 203 mm x 100 mm x 50 mm; **Weight :** 0.545 kg

**Lifetime Warranty**