## 80 Series V Digital Multimeters





Fluke 83V

Fluke 87V



83V/87V



On all inputs



Fluke 87V Ex









not 87V Ex

### **Included Accessories**

TL75 test leads, AC72 alligator clips, yellow holster (H80M excl. TPAK), 80BK temperature probe (87V only), 9 V battery (installed), CD-R0M (user's manual and technical notes) and operator's guide.

### Ordering Information

Fluke 83V Mu Fluke 87V Tru Fluke 87V Ex Intr

Multimeter True RMS Multimeter Intrinsically safe

True RMS multimeter

Fluke 87V/E2 Industrial Electrician Combo Kit

# Performance and accuracy for maximum industrial productivity

The Fluke 80 Series V have improved measurement functions, troubleshooting features, resolution and accuracy to solve more problems on motor drives, in plant automation, power distribution, and electromechanical equipment.

The Fluke 87V has a unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment. A built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument.

#### **Features**

	83V	87V / 87V Ex
True-RMS voltage and current for accurate measurements on non linear signals		•
Bandwidth (voltage/current)	5 kHz	20 kHz
Digital display counts (default/selectable)	6000	20000 / 6000
Selectable filter for accurate voltage and frequency measurements on motor drives		•
Large display with analog bargraph and 2 level bright white backlight	•	•
Auto and manual ranging for maximum flexibility	•	•
Built-in thermometer lets you carry one less tool		•
Peak capture to record transients as fast as 250 µs		•
Relative mode to remove test lead resistance from low ohms measurements	•	•
Min-Max-Average recording with Min/Max Alert to capture variations automatically	•	•
AutoHOLD® to capture stable readings avoiding noisy signals	•	•
Audible continuity, diode test and duty cycle	•	•
Input Alert	•	•
"Classic" design with new removable holster with built in test lead and probe storage	•	•
Improved selectable sleep mode for long battery life	•	•
Easy battery exchange without opening the complete case	•	•
ATEX safety rating 🐼 II 2 G Eex ia IIC T4		87V Ex

### **Specifications**

(Check the Fluke web for detailed specifications)

Functions	Maximum Range		
Voltage DC	1000 V		
Voltage AC	1000 V		
Current DC	10 A **		
Current AC	10 A **		
Resistance	50 MΩ		
Conductance	60 nS		
Capacitance	9999 µF		
Frequency	> 200 kHz		
Temperature	-200 to 1090 °C		
80BK temperature probe	- 40 to 260 °C		

	83V		87V/87V Ex*	
	Max. resolution	Accuracy	Max. resolution	Accuracy
	0.1 mV	±(0.1%+1)	10 μV	±(0.05%+1)
	0.1 mV	±(0.5%+2)	10 μV	±(0.7%+2)
	0.1 μΑ	±(0.4%+2)	0.01 µA	±(0.2%+2)
	0.1 μΑ	±(1.2%+2)	0.01 µA	±(1.0%+2)
	0.1 Ω	±(0.4%+1)	0.01 Ω	±(0.2%+1)
	0.01 nS	±(1.0%+10)	0.001 nS	±(1.0%+10)
_	0.01 nF	±(1.0%+2)	0.01 nF	±(1.0%+2)
_	0.01 Hz	±(0.005%+1)	0.01 Hz	±(0.005%+1)
_	-		0.1 °C	1.0%
_	-		-	2.2 °C or 2%

Accuracies are best accuracies for each function.

\* 87V accuracy is stated for 6000 counts and resolution for 20000 counts

\*\* 20 A up to 30 seconds

Battery Life: Over 400 hours typical (alkaline). Size (HxWxD):

200 mm x 95 mm x 48 mm

Weight: 0.6 kg 83V/87V: Lifetime Warranty 87V Ex: One Year Warranty

### **Recommended Accessories**

(Not for hazardous zones)







i410/i1010





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TL238