

Fluke 87V/IMSK Industrial Multimeter Service Combo Kit

Combo kit with the Fluke 87V Industrial Multimeter, test leads with probes, alligator clips, i400 AC400A current clamp, 80BK-A thermocouple probe



This combo kit is built around the Fluke 87V, the most widely used industrial digital multimeter in the world, and includes special accessories to make you even more productive on the job. This kit will save over 15% compared with the individual price of all the accessories. Plus you'll be working with the most trusted tools in the world.

Fluke 87V/IMSK Industrial Multimeter Service Kit Includes:

- Fluke-87V Multimeter with temperature frequency, capacitance 250 μ s peak min-max
- Fluke-i400 AC 400A Current Clamp
- 80BK-A thermocouple bead probe
- TL75 test leads
- AC72 alligator clips
- Limited lifetime warranty on Fluke-87V and 1-year warranty on accessories

Fluke 87V Digital Multimeter

Specifications

Voltage DC

Maximum Voltage	1000 V
Accuracy	$\pm(0.05\% + 1)$
Maximum Resolution	10 μ V

Voltage AC

Maximum Voltage	1000 V
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	Accuracy	±(0.7% + 2) True RMS
	AC Bandwidth	20 kHz with low pass filter; 3 db @ 1 kHz
	Maximum Resolution	0.1 mV
Current DC	Maximum Amps	10 A (20 A for 30 seconds maximum)
	Amps Accuracy	±(0.2% + 2)
	Maximum Resolution	0.01 µA
Current AC	Maximum Amps	10 A (20 A for 30 seconds maximum)
	Amps Accuracy	±(1.0% + 2) True RMS
	Maximum Resolution	0.1 µA
Resistance	Maximum Resistance	50 MΩ
	Accuracy	±(0.2% + 1)
	Maximum Resolution	0.1 Ω
Capacitance	Maximum Capacitance	9,999 µF
	Accuracy	±(1% + 2)
	Maximum Resolution	0.01 nF
Frequency	Maximum Frequency	200 kHz
	Accuracy	±(0.005% + 1)
	Maximum Resolution	0.01 Hz
Duty Cycle	Maximum Duty Cycle	99.9%
	Accuracy	±(0.2% per khz +0.1%)
	Maximum Resolution	0.1%
Temperature Measurement	-200.0°C - 1090°C -328.0°F - 1994.0°F excluding probe	
80 BK Temperature Probe	-40.0°C - 260°C -40.0°F - 500°F, 2.2°C or 2% whichever is greater	
Conductance	Maximum Conductance	60.00 nS
	Accuracy	±(1.0% + 10)
	Maximum Resolution	0.01 nS

Diode	Range	3 V
	Resolution	1 mV
	Accuracy	±(2% + 1)
Duty Cycle Range	Accuracy	Within ±(0.2% per kHz + 0.1%)
Environmental Specifications		
Operating Temperature	-20°C to +55°C	
Storage Temperature	-40°C to +60°C	
Humidity (Without Condensation)	0% - 90% (0°C - 35°C)	
	0% - 70% (35°C - 55°C)	
Operating Altitude	2000 m	
Safety Specifications		
Overvoltage category	EN 61010-1 to 1000 V CAT III, 600V CAT IV	
Agency Approvals	UL, CSA, TÜV, VDE listed	
Mechanical and General Specifications		
Size	201 x 98 x 52 mm (with holster)	
Weight	355 g	
	624 g - with holster	
Display	Digital	6000 counts updates 4/sec. 19,999 counts in high-resolution mode
	Analog	32 segments, updates 40/sec.
	Frequency	19,999 counts, updates 3/sec at > 10 Hz
Warranty	Lifetime	
Battery Life	Alkaline	~400 hours typical, without backlight
Shock	1 Meter drop per IEC 61010-1:2001	
Vibration	Per MIL-PRF-28800 for a Class 2 instrument	

Fluke i400 AC Current Clamp

Specifications

Nominal current range 400 A

Continuous current range 1 A - 400 A

Maximum non-destructive current 1000 A

Lowest measurable current 1 A

Basic accuracy 2% + 0.06 A

(45-400 Hz)

(% reading + floorspec)

Useable frequency 5 Hz - 20 kHz

Output level(s) 1 mA/A

Safety Specifications

Safety CAT IV 600 V, CAT III, 1000 V

Maximum voltage 1000 V AC rms from earth to ground, in compliance with EN61010

Mechanical and General Specifications

Warranty 1 year

Maximum conductor diameter 32 mm (1.25 in)

Maximum conductor size (busbar) 750 MCM

Output cable length 1.5 m (59 in)

Shrouded banana plugs Yes

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Includes:

- Fluke 87V Industrial Multimeter
- TL-75 Test Leads
- AC175 Alligator Clips
- i400, 400A AC current clamp
- 80BK-A DMM Temperature Probe
- 9V battery (installed)

