

TECHNICAL DATA

Fluke 87V IMSK Industrial Multimeter Service Kit



87V IMSK KIT HIGHLIGHTS

- Fluke-87V Multimeter has true-rms accuracy and advanced functionality to give you the results you need
- Fluke-i400 AC 400A Current Clamp turns the 87V into a clamp meter
- Select accessories like temperature probe, test leads and alligator clips included

Product overview

This combo kit is built around the Fluke 87V, the most widely used industrial digital multimeter in the world, combined with the i400 AC current clamp. Together they provide the resolution and accuracy to efficiently troubleshoot any electrical system. The kit includes special accessories to make you even more productive on the job and will save over 15% compared with the individually priced items. Plus, you'll be working with the most trusted tools in the world.

Fluke-87V Multimeter has true-rms accuracy and advanced functionality to give you the results you need

- True-rms accuracy with manual and automatic ranging, Display Hold, Auto Hold, and Min/Max-Average recording
- Efficiently troubleshoot motor drives, plant automation, power distribution, and electromechanical equipment even in loud, high-energy, and high-altitude locations
- A low pass filter supports accurate frequency measurements on VFDs and captures intermittents as fast 250 μ S
- · Lifetime warranty, backed by a brand you trust

Fluke-i400 AC 400A Current Clamp turns the 87V into a clamp meter

- The current clamp provides accurate current measurements up to 400 A ac without breaking electric circuits
- Allows taking measurements safely with industry standard safety ratings

Select accessories like temperature probe, test leads and alligator clips

- The 80BK-A DMM Temperature Probe plugs into the 87V's voltage jacks and allows temperature measurements from -40 °C to 260 °C (-40 °F to 500 °F)
- TL75 Test Leads and AC175 Alligator Clips complete this versatile kit

Key safety features

- Safety rated CAT III 1000 V, CAT IV 600 V meter to get you home safely from the job.
- Designed to withstand spikes of more than 8000 V. Audible Input Alert warning against wrong use of input jacks.

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87V IMSK Specifications

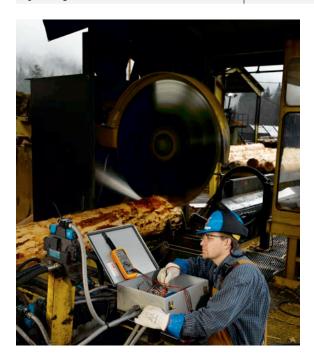
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Electrical specifications				
DC voltage	Range	0.1 mV to 1000 V		
	Accuracy	±(0.05 % + 1)		
	Maximum resolution	10 µV		
AC voltage	Range	0.1 mV to 1000 V		
	Accuracy	±(0.7 % + 2) True-rms		
	AC bandwidth	20 kHz with low pass filter; 3 dB @ 1 kHz		
	Maximum resolution	0.1 mV		
DC current	Range	0.1 µA to 10 A (20 A for 30 seconds maximum)		
	Amps Accuracy	±(0.2 % + 2)		
	Maximum resolution	0.01 µA		
AC current	Range	0.1 μA to 10 A (20 A for 30 seconds maximum)		
	Amps Accuracy	±(1.0 % + 2) True-rms		
	Maximum resolution	0.1 µA		
Resistance	Range	0.1 Ω to 50 MΩ		
	Accuracy	±(0.2 % + 1)		
	Maximum resolution	0.1 Ω		
Capacitance	Range	1 nF to 9999 µF		
*	Accuracy	±(1 % + 2)		
	Maximum resolution	0.01 nF		
Frequency	Range	0.5 Hz to 199.99 kHz		
Trequency				
	Accuracy	$\pm (0.005 \% + 1)$		
Determine	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 to 1090 °C -328.0 °F to 1994.0 °F excluding probe			
80 BK temperature probe	-40.0 °C to 260 °C, \pm 2.2 °C or 2 % whichever is greater -40.0 °F to 500 °F, \pm 4.0 °F 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 $\pm (0.2 \% \text{ per kHz} + 0.1 \%)$		
Data storage	Peak transient capture	250 µS		
	Min/Max/Avg	Yes		
	-			
	Reading hold	Yes		

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Display	Digital		000 counts updates 4/sec. counts in high–resolution mode		
	Analog bar graph	32	2 segments, updates 40/sec		
	Backlight		Yes		
	Frequency	19,999	counts, updates 3/sec at > 10 Hz		
Low pass filter	Measurement of VFDs: Yes				
Safety specifications					
Compliance	CAT IV 600 V , CAT III 1000 V				
Overvoltage category	EN 61010-1 to 1000 V CAT III, 600V CAT IV				
Agency approvals	CE, CSA				
Mechanical and general specificat	Mechanical and general specifications				
IP rating	30				
Shock	1 meter drop per				
Vibration	Per MIL-PRF-28800 for a Class 2 instrument				
Power	Three AA batteries		400 hours typical, without backlight		
Size	201 x 98 x 52 mm (with holster)				
Weight	355 g 624 g (with holster)				
Warranty	Limited lifetime				
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				



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Fluke i400 Specifications

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 + floor spec)			
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			

Ordering information

Fluke 87V IMSK Industrial Multimeter Service Kit

Included

Fluke 87V Industrial Multimeter, Fluke i400 400 A AC Current Clamp, 80BK-A DMM Temperature Probe, TL75 Hard Point Test Lead Set, AC175 Threaded Alligator Clip Set Fluke. Keeping your world up and running.®

Fluke Corporation

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