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Data Sheet

August 14, 2026

FLUKE

Fluke 87V/IMSK Industrial Multimeter Service Combo Kit with current clamp, 1000 V, 10 A

The Fluke 87V/IMSK Industrial Multimeter Service Combo Kit is a set for industrial troubleshooting. It includes the Fluke 87V digital multimeter, known for its accuracy and reliability, along with an i400 AC current clamp for measuring current up to 400 A without breaking the circuit. The kit also features TL75 Hard Point Test Lead Set, AC72 Alligator Clip Set and 80BK-A Thermocouple Probe. Designed for demanding environments, it offers true-RMS AC voltage and current measurements, a built-in thermometer, and Min/Max/Average recording.



MODEL

Fluke 87V/IMSK

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

87V/IMSK

LISTING

<https://aumictechlabs.com/products/87v-imsk-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 87V/IMSK Industrial Multimeter Service Combo Kit delivers precision measurement capability for field troubleshooting and bench diagnostics in industrial electrical systems. The kit pairs the Fluke 87V True-RMS digital multimeter with the Fluke i400 AC current clamp, supported by essential accessories including the TL75 test lead set, AC72 alligator clip set, and 80BK-A thermocouple probe. Technical Specifications Fluke 87V Industrial Multimeter Voltage (DC): 1000 V max, $\pm(0.05\% + 1)$ accuracy, 10 μ V resolution Voltage (AC): 1000 V max, $\pm(0.7\% + 2)$ accuracy

at 45–65 Hz, True-RMS with selectable low-pass filter for VFD environments Current (DC/AC): 10 A continuous (20 A for 30 seconds), DC accuracy $\pm(0.2\% + 2)$, AC accuracy $\pm(1.0\% + 2)$ True-RMS Resistance: 50 M Ω max Capacitance: 10,000 μ F max Frequency: 200 kHz max with VFD-compatible filtering Duty Cycle: 99.9% max, $\pm(0.2\%$ per kHz + 0.1%) accuracy Conductance: 60.00 nS max Temperature: -200.0 to 1090°C (-328.0 to 1994.0°F) with external probe Peak Capture: 250 μ S response for intermittent fault detection Display: 6,000 counts (19,999 in high-resolution mode), analog bar graph, dual-level backlight Safety: CAT III 1000 V / CAT IV 600 V, >8000 V spike rated Battery: 400 hours typical (backlight off) Dimensions: 1.25 × 3.41 × 7.35 in

Fluke i400 AC Current Clamp Range: 1 A to 400 A AC continuous Key Features Non-intrusive AC current measurement to 400 A True-RMS measurement engine for non-linear signal accuracy Selectable low-pass filtering for adjustable-speed drive diagnostics Peak capture for transient detection down to 250 μ S Temperature measurement capability via thermocouple probe Audible input alert for jack configuration verification High-resolution mode extends display to 19,999 counts Typical Applications Motor circuit troubleshooting and commissioning VFD and variable speed drive diagnosis HVAC/refrigeration system service Electrical distribution and control panel diagnostics Equipment performance validation in industrial plants Compatibility & Integration The 87V multimeter accepts standard banana plugs and supports external thermocouple probes for extended temperature measurement range. The i400 clamp output connects to the millivolts input of compatible multimeters.

Features & description

From manufacturer datasheet

Built-in thermometer with Type-K probe support

Min/Max/Average recording and Peak Min/Max capture to 250 us Analog bar graph with 6000-count digital display and Hi-Res 19999 mode Technical Specifications DC Voltage Maximum: 1000 V DC Voltage Accuracy: plus or minus (0.05 percent plus 1) DC Voltage Maximum Resolution: 10 uV AC Voltage Maximum: 1000 V AC Voltage Accuracy: plus or minus (0.7 percent plus 2) True RMS AC Bandwidth With Low Pass Filter: 20 kHz; 3 dB at 1 kHz AC Voltage Maximum Resolution: 0.1 mV DC Current Maximum: 10 A (20 A for 30 seconds maximum) DC Current Accuracy: plus or minus (0.2 percent plus 2) DC Current Maximum Resolution: 0.01 uA AC Current Maximum: 10 A (20 A for 30 seconds maximum) AC Current Accuracy: plus or minus (1.0 percent plus 2) True RMS AC Current Maximum Resolution: 0.1 uA Resistance Maximum: 50 Mohm Resistance Accuracy: plus or minus (0.2 percent plus 1) Resistance Maximum Resolution: 0.1 ohm Capacitance Maximum: 9999 uF Capacitance Accuracy: plus or minus (1 percent plus 2) Capacitance Maximum Resolution: 0.01 nF Frequency Maximum: 200 kHz Frequency Accuracy: plus or minus (0.005 percent plus 1) Frequency Maximum Resolution: 0.01 Hz Duty Cycle Maximum: 99.9 percent Temperature Measurement Range: minus 200.0 C to 1090 C excluding probe

87VIMSK Characteristics / Specifications

PARAMETER	VALUE
DC Voltage Maximum	1000 V
DC Voltage Accuracy	plus or minus (0.05 percent plus 1)
DC Voltage Maximum Resolution	10 uV
AC Voltage Maximum	1000 V
AC Voltage Accuracy	plus or minus (0.7 percent plus 2) True RMS
AC Bandwidth With Low Pass Filter	20 kHz; 3 dB at 1 kHz
AC Voltage Maximum Resolution	0.1 mV
DC Current Maximum	10 A (20 A for 30 seconds maximum)
DC Current Accuracy	plus or minus (0.2 percent plus 2)
DC Current Maximum Resolution	0.01 uA
AC Current Maximum	10 A (20 A for 30 seconds maximum)
AC Current Accuracy	plus or minus (1.0 percent plus 2) True RMS
AC Current Maximum Resolution	0.1 uA
Resistance Maximum	50 Mohm
Resistance Accuracy	plus or minus (0.2 percent plus 1)
Resistance Maximum Resolution	0.1 ohm
Capacitance Maximum	9999 uF
Capacitance Accuracy	plus or minus (1 percent plus 2)
Capacitance Maximum Resolution	0.01 nF
Frequency Maximum	200 kHz
Frequency Accuracy	plus or minus (0.005 percent plus 1)
Frequency Maximum Resolution	0.01 Hz
Duty Cycle Maximum	99.9 percent
Temperature Measurement Range	minus 200.0 C to 1090 C excluding probe
Conductance Maximum	60.00 nS

PARAMETER	VALUE
Diode Test Range	3 V
Overvoltage Category	CAT III 1000 V CAT IV 600 V
Size With Holster	201 × 98 × 52 mm
Weight	355 g; 624 g with holster
Display Counts	6000 digital; Hi-Res 19999 counts
Battery Life Typical	400 hours alkaline backlight off
Bandwidth	With Low Pass Filter: 20 kHz; 3 dB at 1 kHz

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

specifications list DC voltage accuracy of plus or minus (0.05 percent plus 1), AC true-RMS to 1000 V, current to 10 A, resistance to 50 Mohm, and frequency to 200 kHz.

Applications
Industrial electrical troubleshooting on VFD and PWM motor drives, plant automation and power distribution diagnostics, electromechanical equipment service, and temperature checks with the included probe.

Key Features
True-RMS AC voltage and current for non-linear loads
Selectable low-pass filter for accurate VFD voltage measurements
Built-in thermometer with Type-K probe support
Min/Max/Average recording and Peak Min/Max capture to 250 us
Analog bar graph with 6000-count digital display and Hi-Res 19999 mode

Technical Specifications

Technical Specifications

PARAMETER	VALUE
DC Voltage Maximum	1000 V
DC Voltage Accuracy	plus or minus (0.05 percent plus 1)
DC Voltage Maximum Resolution	10 uV
AC Voltage Maximum	1000 V
AC Voltage Accuracy	plus or minus (0.7 percent plus 2) True RMS
AC Bandwidth With Low Pass Filter	20 kHz; 3 dB at 1 kHz
AC Voltage Maximum Resolution	0.1 mV
DC Current Maximum	10 A (20 A for 30 seconds maximum)
DC Current Accuracy	plus or minus (0.2 percent plus 2)
DC Current Maximum Resolution	0.01 uA
AC Current Maximum	10 A (20 A for 30 seconds maximum)
AC Current Accuracy	plus or minus (1.0 percent plus 2) True RMS
AC Current Maximum Resolution	0.1 uA
Resistance Maximum	50 Mohm
Resistance Accuracy	plus or minus (0.2 percent plus 1)
Resistance Maximum Resolution	0.1 ohm
Capacitance Maximum	9999 uF
Capacitance Accuracy	plus or minus (1 percent plus 2)
Capacitance Maximum Resolution	0.01 nF
Frequency Maximum	200 kHz

PARAMETER	VALUE
Frequency Accuracy	plus or minus (0.005 percent plus 1)
Frequency Maximum Resolution	0.01 Hz
Duty Cycle Maximum	99.9 percent
Temperature Measurement Range	minus 200.0 C to 1090 C excluding probe
Conductance Maximum	60.00 nS
Diode Test Range	3 V
Overvoltage Category	CAT III 1000 V CAT IV 600 V
Size With Holster	201 x 98 x 52 mm
Weight	355 g; 624 g with holster
Display Counts	6000 digital; Hi-Res 19999 counts
Battery Life Typical	400 hours alkaline backlight off

Notes
Specifications from Fluke 87V TRMS Industrial Multimeter official product page and datasheet. Accuracies are plus or minus (percent of reading plus counts) for one year at 18 C to 28 C unless otherwise stated.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.