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Data Sheet

August 14, 2026

FLUKE

Fluke 87V-MAX/E2 KIT Industrial Electrician Combo Kit, 1000 V, 10 A

The Fluke 87V MAX True-rms Digital Multimeter delivers accurate measurements and reliable performance. This combo kit includes the 87V MAX multimeter, TL175 TwistGuard test leads, AC175 alligator clips, and a ToolPak magnetic meter hanger. The Fluke 87V MAX operates up to 1000 V AC/DC and 10 A AC/DC. It is designed to withstand harsh environments and is ideal for industrial electricians.



MODEL

**Fluke 87V-MAX/E2
KIT**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

87V-MAX/E2 KIT

LISTING

<https://aumictechlabs.com/products/87v-max-e2-kit-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 87V-MAX/E2 KIT Industrial Electrician Combo Kit delivers field-proven measurement capability and durability for industrial electrical troubleshooting. Built around the Fluke 87V MAX True-rms Digital Multimeter, this kit combines a rugged platform rated IP67 with accessory support for enhanced field efficiency and safety. The meter survives 4 meter drops and operates across -40°C to 55°C, making it suitable for demanding industrial environments. Technical Specifications Measurement Range & Accuracy AC/DC Voltage: 0–1000 V AC/DC Current: 0–10 A (20 A for 30 seconds) Resistance: 0–50 MΩ Capacitance: 0–10,000 μF Frequency: 0–200 kHz Temperature: Thermocouple input (with supplied probe) Display: 19,999 or 20,000 count

resolution True-rms AC measurement with extended bandwidth (15 Hz to 20 kHz) Environmental & Physical IP67 rating: complete dust and water ingress protection Drop survival: 4 meters (13 feet) Operating temperature: -40°C to 55°C (-40°C operation limited to 20 minutes) Dimensions: 2.4 × 4.3 × 8.5 inches with holster (60 × 101 × 215 mm) Weight: 1.54 lbs with holster (698.5 g) Power: Three AA batteries, 800 hour runtime Safety Ratings CAT IV 600 V, CAT III 1000 V Overvoltage protection: 8,000 V spike withstand Key Features Low-pass filter for voltage frequency measurement on variable frequency drives and electrically noisy circuits Min/Max/Average recording with 250 µs peak capture for transient detection Dual-level bright white backlight with illuminated keypad Audible Input Alert guards against incorrect jack selection Touch Hold for signal stabilization on noisy measurements Relative mode zeroes test lead resistance in low-ohms applications Removable holster integrates test lead storage and field carry Included TL175 TwistGuard test leads, AC175 alligator clips, and ToolPak magnetic hanger Typical Applications Industrial electrical troubleshooting, motor and drive diagnostics, control circuit verification, power distribution maintenance, and field service in wet, dusty, or corrosive environments. Compatibility & Integration Kit includes TL175 TwistGuard test leads, AC175 alligator clips, and ToolPak magnetic meter hanger for integrated field deployment.

Features & description

From manufacturer datasheet

Built-in thermometer with Type-K support

Min/Max/Average and Peak Min/Max capture 4 meter drop-tested holster and long AA battery life

Technical Specifications DC Voltage Range: 0.1 mV to 1000 V DC Voltage Accuracy: plus or minus (0.05 percent plus 1) DC Voltage Maximum Resolution: 0.1 mV AC Voltage Range: 0.1 mV to 1000 V AC Voltage Accuracy: plus or minus (0.7 percent plus 4) true-rms AC Bandwidth With Low Pass Filter: 20 kHz; 3 dB at 1 kHz AC Voltage Maximum Resolution: 0.1 mV DC Current Range: 0.1 uA to 10 A (20 A for 30 seconds maximum) DC Current Accuracy: plus or minus (0.2 percent plus 2) DC Current Maximum Resolution: 0.1 uA AC Current Range: 0.1 uA to 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 Range: 0.1 ohm to 50 Mohm Resistance Accuracy: plus or minus (0.2 percent plus 1) Resistance Maximum Resolution: 0.1 ohm Capacitance Range: 0.01 nF to 9999 uF Capacitance Accuracy: plus or minus (1 percent plus 2) Frequency Range: 0.5 Hz to 199.99 kHz Frequency Accuracy: plus or minus (0.005 percent plus 1) Frequency Maximum Resolution: 0.01 Hz Duty Cycle Maximum: 99.9 percent Conductance Maximum: 60.00 nS Diode Test Range: 2 V

87VMAXE2KIT Characteristics / Specifications

PARAMETER	VALUE
DC Voltage Range	0.1 mV to 1000 V
DC Voltage Accuracy	plus or minus (0.05 percent plus 1)
DC Voltage Maximum Resolution	0.1 mV
AC Voltage Range	0.1 mV to 1000 V
AC Voltage Accuracy	plus or minus (0.7 percent plus 4) true-rms
AC Bandwidth With Low Pass Filter	20 kHz; 3 dB at 1 kHz
AC Voltage Maximum Resolution	0.1 mV
DC Current Range	0.1 uA to 10 A (20 A for 30 seconds maximum)
DC Current Accuracy	plus or minus (0.2 percent plus 2)
DC Current Maximum Resolution	0.1 uA
AC Current Range	0.1 uA to 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 Range	0.1 ohm to 50 Mohm
Resistance Accuracy	plus or minus (0.2 percent plus 1)
Resistance Maximum Resolution	0.1 ohm
Capacitance Range	0.01 nF to 9999 uF
Capacitance Accuracy	plus or minus (1 percent plus 2)
Frequency Range	0.5 Hz to 199.99 kHz
Frequency Accuracy	plus or minus (0.005 percent plus 1)
Frequency Maximum Resolution	0.01 Hz
Duty Cycle Maximum	99.9 percent
Conductance Maximum	60.00 nS
Diode Test Range	2 V
Temperature Measurement Range	minus 200 C to plus 1090 C excluding probe

PARAMETER	VALUE
Overvoltage Category	CAT IV 600 V CAT III 1000 V
IP Rating	IP67
Battery Type	three AA
Battery Life Typical	800 hours without backlight
Drop Test	4 m
Size With Holster HxWxL	6.0 cm x 10.1 cm x 21.5 cm
Weight With Holster	698.5 g
Display Counts	6000 / 19999 high resolution
Operating Temperature Class	minus 15 C to plus 55 C (minus 40 C up to 20 minutes)
Bandwidth	With Low Pass Filter: 20 kHz; 3 dB at 1 kHz
Operating temperature	Class: minus 15 C to plus 55 C (minus 40 C up to 20 minutes)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: minus 15 C to plus 55 C (minus 40 C up to 20 minutes)
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DC Voltage Range	0.1 mV to 1000 V
DC Voltage Accuracy	plus or minus (0.05 percent plus 1)
DC Voltage Maximum Resolution	0.1 mV
AC Voltage Range	0.1 mV to 1000 V
AC Voltage Accuracy	plus or minus (0.7 percent plus 4) true-rms
AC Bandwidth With Low Pass Filter	20 kHz; 3 dB at 1 kHz
AC Voltage Maximum Resolution	0.1 mV
DC Current Range	0.1 uA to 10 A (20 A for 30 seconds maximum)
DC Current Accuracy	plus or minus (0.2 percent plus 2)
DC Current Maximum Resolution	0.1 uA
AC Current Range	0.1 uA to 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 Range	0.1 ohm to 50 Mohm
Resistance Accuracy	plus or minus (0.2 percent plus 1)
Resistance Maximum Resolution	0.1 ohm
Capacitance Range	0.01 nF to 9999 uF
Capacitance Accuracy	plus or minus (1 percent plus 2)
Frequency Range	0.5 Hz to 199.99 kHz
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Size With Holster HxWxL	6.0 cm x 10.1 cm x 21.5 cm
Weight With Holster	698.5 g
Display Counts	6000 / 19999 high resolution
Operating Temperature Class	minus 15 C to plus 55 C (minus 40 C up to 20 minutes) Notes Specifications from Fluke 87V MAX True-rms Digital 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; measurement core aligns with 87V with MAX environmental enhancements.

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.

environmental ruggedness. Official Fluke 87V MAX 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, frequency to 199.99 kHz, IP67 sealing, and a 4 m drop rating with about 800-hour battery life on three AA cells.

Applications

Industrial electrical troubleshooting in wet dusty and extreme temperature sites, VFD and motor-drive measurements with low-pass filter, temperature checks with Type-K probe, and peak capture of intermittents in CAT III 1000 V / CAT IV 600 V environments.

Key Features

IP67 waterproof dustproof enclosure

True-RMS AC with selectable VFD low-pass filter

Built-in thermometer with Type-K support

Min/Max/Average and Peak Min/Max capture

4 meter drop-tested holster and long AA battery life

Technical Specifications

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Capacitance Range	0.01 nF to 9999 uF
Capacitance Accuracy	plus or minus (1 percent plus 2)
Frequency Range	0.5 Hz to 199.99 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
Conductance Maximum	60.00 nS
Diode Test Range	2 V
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Notes

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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

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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.