

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 1587 FC Advanced Electrical Troubleshooting Kit

The Fluke 1587 FC Advanced Electrical Troubleshooting Kit combines the capabilities of a digital insulation tester with a full-featured true-RMS digital multimeter into a single compact unit. This kit is ideal for troubleshooting hybrid and electric vehicles, solar inverters, wind turbines, and more. It includes the Fluke Connect wireless data logging system to share measurements with your team.



MODEL

Fluke 1587 FC

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1587 FC

LISTING

<https://aumictechlabs.com/products/1587-fc-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 1587 FC Advanced Electrical Troubleshooting Kit combines digital insulation testing with true-RMS multimetry in a single handheld instrument. This integrated platform delivers insulation measurements from 0.01 MΩ to 2 GΩ across five selectable test voltages (50 V, 100 V, 250 V, 500 V, 1000 V) and standard multimeter functions spanning AC/DC voltage to 1000 V, current to 400 mA, resistance to 50 MΩ, plus temperature, capacitance, frequency, and diode testing. Fluke Connect wireless technology enables smartphone and tablet data logging, remote monitoring, and streamlined documentation - critical for preventative maintenance and failure diagnosis in renewable energy systems, electric vehicle platforms, and industrial motor drives. Technical Specifications Insulation Testing: Measurement range: 0.01 MΩ to 2 GΩ Test voltages: 50 V, 100 V,

250 V, 500 V, 1000 V Short-circuit test current (nominal): 1 mA Minimum test current @ 1 k Ω /V: 1 mA Maximum capacitive load: 1 μ F Live circuit detection: Inhibits test if terminal voltage exceeds 30 V Auto-discharge protection for capacitive voltage PI/DAR timed ratio tests supported Test smoothing enabled Multimeter Functions: AC/DC voltage: 0–1000 V; DC millivolts: 0.1–600 mV AC/DC current: 0–400 mA; DC accuracy $\pm(0.2\% + 2)$, AC accuracy $\pm(1.5\% + 2)$; maximum resolution 0.01 mA Resistance: 0.1 Ω to 50 M Ω Temperature: –40°C to 537°C (–40°F to 998°F) Continuity, capacitance, diode, and frequency measurement True RMS, MIN/MAX data capture VFD low-pass filter (800 Hz) for motor drive measurements Included Accessories: Fluke i400 AC current clamp: 1–400 A AC, 1 mA/Amp output, 32 mm conductor capacity, CAT III 1000 V / CAT IV 600 V rated Fluke 62 MAX+ infrared thermometer: –30°C to 650°C range, $\pm 1.0^\circ\text{C}$ or $\pm 1.0\%$ accuracy, 12:1 optical resolution, response time <300 ms Physical: Dimensions: 203 $\times$ 100 $\times$ 50 mm Weight: 624 g Battery life: 1000 hours (meter operation); minimum 1000 insulation tests per charge

Key Features Live circuit detection prevents dangerous insulation tests on energized equipment Automatic capacitive discharge protects user and instrument VFD filtering isolates true voltage/current in variable-frequency drive circuits Wireless data synchronization for field reporting and trending

Typical Applications Preventative maintenance of motor windings and industrial machinery Ground integrity verification on solar inverters and wind turbine systems Battery pack and high-voltage subsystem diagnostics in hybrid and electric vehicles Thermal imaging and electrical fault correlation

Compatibility & Integration Fluke Connect enabled for real-time data upload to mobile devices and cloud-based analysis platforms.

Features & description

From manufacturer datasheet

Features

- Kit: 1587 FC + i400 + 62 MAX+ IR thermometer

Applications

- Insulation and DMM troubleshooting on motors, cables, and switchgear

1587FC Characteristics / Specifications

PARAMETER	VALUE
Model	FLK-1587/62 MAX+ FC Kit
Manufacturer	Fluke
Instrument Type	Advanced Electrical Troubleshooting Kit
Alias	Fluke 1587 FC Kit; 1587KIT/62MAX+ FC; part 4692778
Kit insulation DMM	Fluke 1587 FC
Kit current clamp	Fluke i400
Kit IR thermometer	Fluke 62 MAX+
Insulation test voltages	50 V, 100 V, 250 V, 500 V, 1000 V
Insulation resistance range	0.01 MOhm to 2 GOhm
Insulation test voltage accuracy	+20%, -0%
Short circuit test current	1 mA nominal
Live circuit detect threshold	greater than 30 V inhibits insulation test
Auto discharge	less than 0.5 s for C = 1 uF or less
Maximum capacitive load	up to 1 uF
DC voltage best accuracy	$\pm(0.09\% + 2)$ to 1000 V
AC voltage ranges	600.0 mV to 1000 V true rms
Resistance DMM range	0.1 Ohm to 50.0 MOhm
Capacitance range	1000 nF to 9999 uF
Frequency range	99.99 Hz to 99.99 kHz
Contact temperature range	-40 C to 537 C
DMM safety category	CAT III 1000 V / CAT IV 600 V
Display	6000 count backlit
i400 current range	1 A to 400 A AC
i400 maximum conductor	32 mm diameter
i400 output	1 mA/A

PARAMETER	VALUE
i400 safety	CAT III 1000 V / CAT IV 600 V 62 MAX+ temperature range: -30 C to 650 C (-22 F to 1202 F) 62 MAX+ accuracy: ± 1.0 C or $\pm 1.0\%$ of reading (whichever greater) 62 MAX+ response time: less than 300 ms (95%) 62 MAX+ spectral response: 8 to 14 microns
Warranty insulation DMM	3 years
Connectivity	Fluke Connect FC Notes Specs from Fluke 1587 FC Advanced Electrical Troubleshooting Kit product page and 1587 FC/1577 insulation multimeter datasheet. Confirm hard case vs accessory set and 62 MAX+ vs 62 MAX faceplate with the shipment.
Kit	1587 FC + i400 + 62 MAX+ IR thermometer
62 MAX+ IR thermometer IP54, 12	1 optics

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	
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Frequency range	99.99 Hz to 99.99 kHz
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DMM safety category	CAT III 1000 V / CAT IV 600 V

Specifications

PARAMETER	VALUE
Display	6000 count backlit
i400 current range	1 A to 400 A AC
i400 maximum conductor	32 mm diameter

i400 output: 1 mA/A

i400 safety: CAT III 1000 V / CAT IV 600 V

62 MAX+ temperature range: -30 C to 650 C (-22 F to 1202 F)

62 MAX+ accuracy: ±1.0 C or ±1.0% of reading (whichever greater)

62 MAX+ response time: less than 300 ms (95%)

62 MAX+ spectral response: 8 to 14 microns

62 MAX+ optical resolution: 12:1

62 MAX+ emissivity: 0.10 to 1.00

62 MAX+ IP rating: IP54

1587 FC size: 5.0 x 10.0 x 20.3 cm

1587 FC weight: 550 g

Warranty insulation DMM: 3 years

Connectivity: Fluke Connect FC

Notes

Specs from Fluke 1587 FC Advanced Electrical Troubleshooting Kit product page and 1587 FC/1577 insulation multimeter datasheet. Confirm hard case vs accessory set and 62 MAX+ vs 62 MAX faceplate with the shipment.

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

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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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.