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Data Sheet

August 13, 2026

FLUKE

Fluke 1587/MDT FC Advanced Motor and Drive Troubleshooting Kit

The Fluke 1587/MDT FC Advanced Motor and Drive Troubleshooting Kit combines the capabilities of a digital insulation tester with a full-featured digital multimeter into a single, compact unit. This kit is specifically designed for troubleshooting motors and drives, offering advanced features such as variable frequency drive (VFD) filtering for accurate motor drive measurements and insulation resistance testing up to 1000 V.



MODEL

**Fluke 1587/MDT
FC**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1587/MDT FC

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 1587/MDT FC Advanced Motor and Drive Troubleshooting Kit combines digital insulation testing with full-function multimetry in a single portable instrument. Designed for engineers and technicians diagnosing electric motors and variable frequency drive systems, this kit delivers insulation resistance measurement from 0.01 MΩ to 2 GΩ across five selectable test voltages, plus comprehensive DMM capabilities including AC/DC voltage, resistance, capacitance, frequency, temperature, and current measurement. The 1587 FC integrates a VFD low-pass filter for accurate readings in drive environments, live circuit detection that inhibits testing above 30 V terminal voltage, and PI/DAR measurements with TrendIt™ trending

capability. Auto-discharge of capacitive voltage completes in less than 0.5 seconds for loads up to 1 μ F. The included i400 AC current clamp measures 1 A to 400 A AC with 1 mA/Amp output and accepts conductors up to 32 mm diameter.

Technical Specifications

Insulation Testing

Measurement range: 0.01 M Ω to 2 G Ω Test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V ($\pm 20\%$, -0% accuracy) Short-circuit test current: 1 mA nominal Maximum capacitive load: 1 μ F Live circuit detection threshold: >30 V inhibit

Multimeter Functions

AC voltage: 600 mV to 1000 V ($\pm 1\%$ + 3 counts @ 50–60 Hz; $\pm 2\%$ + 3 counts @ 60 Hz–5 kHz) DC voltage: Up to 1000 V, 10 M Ω input impedance Resistance: 0.1 Ω to 50 M Ω Capacitance: 100.0 μ F and 9999 μ F ranges Temperature: -40°C to 537°C Continuity and diode testing DC millivolts and AC/DC milliamps

Current Clamp (i400)

Range: 1 A AC to 400 A AC Output: 1 mA/Amp Maximum conductor diameter: 32 mm

Key Features

- True-RMS measurements throughout AC ranges
- VFD low-pass filter for motor drive diagnostics
- Fluke Connect® app integration for data logging and temperature compensation
- Large backlit display with auto power-off
- PI/DAR trending via TrendIt™ graphs

Typical Applications

Motor winding insulation assessment, drive circuit commissioning, predictive motor maintenance, VFD troubleshooting, on-site electrical diagnostics.

Compatibility & Integration

Fluke Connect® Measurements app enables wireless data transfer, cloud-based storage, and automated temperature compensation for field measurements.

Features & description

From manufacturer datasheet

Features

- Kit: 1587 FC + i400 + 9040 + case/leads

Applications

- Motor and drive insulation troubleshooting

1587MDTFC Characteristics / Specifications

PARAMETER	VALUE
Model	1587/MDT FC
Manufacturer	Fluke
Instrument Type	Advanced Motor and Drive Troubleshooting Kit
Alias	Fluke 1587/MDT FC; 1587 FC MDT kit
Kit insulation DMM	Fluke 1587 FC
Kit current clamp	Fluke i400
Kit phase rotation	Fluke 9040
Insulation test voltages	50 V, 100 V, 250 V, 500 V, 1000 V
Insulation resistance range	0.01 MOhm to 2 GOhm
Live circuit detect threshold	greater than 30 V inhibits insulation test
Auto discharge	yes capacitive voltage
DMM category	CAT III 1000 V / CAT IV 600 V
i400 current range	1 A to 400 A AC
i400 maximum conductor	32 mm diameter
i400 output	mV/A class
i400 safety	CAT III 1000 V / CAT IV 600 V 9040 function: three-phase rotation indication
Included accessories class	remote probe test leads alligator clips K-type thermocouple case
Warranty insulation DMM class	3 years
Form	handheld kit
Primary use	motor and drive troubleshooting
Connectivity	Fluke Connect FC on 1587 FC
Capacitance diode temperature frequency	yes on 1587 FC DMM side Notes Specs from Fluke 1587/MDT FC kit pages and 1587 FC/1577 insulation multimeter datasheet. Confirm soft vs hard case variant and accessory set with the shipment.
Kit	1587 FC + i400 + 9040 + case/leads

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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Instrument Type	Advanced Motor and Drive Troubleshooting Kit
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Alias	Fluke 1587/MDT FC; 1587 FC MDT kit
Kit insulation DMM	Fluke 1587 FC
Kit current clamp	Fluke i400
Specifications	
PARAMETER	VALUE
Kit phase rotation	Fluke 9040
Insulation test voltages	50 V, 100 V, 250 V, 500 V, 1000 V
Insulation resistance range	0.01 MOhm to 2 GOhm
Live circuit detect threshold: greater than 30 V inhibits insulation test	
Auto discharge: yes capacitive voltage	
VFD low-pass filter: yes 1587 FC	
Specifications	
PARAMETER	VALUE
DMM category	CAT III 1000 V / CAT IV 600 V
i400 current range	1 A to 400 A AC
i400 maximum conductor	32 mm diameter
i400 output: mV/A class	
i400 safety: CAT III 1000 V / CAT IV 600 V	
9040 function: three-phase rotation indication	
Included accessories class: remote probe test leads alligator clips K-type thermocouple case	
Warranty insulation DMM class: 3 years	

Specifications

PARAMETER	VALUE
Form	handheld kit
Primary use	motor and drive troubleshooting
Connectivity	Fluke Connect FC on 1587 FC

Capacitance diode temperature frequency: yes on 1587 FC DMM side

Notes

Specs from Fluke 1587/MDT FC kit pages and 1587 FC/1577 insulation multimeter datasheet. Confirm soft vs hard case variant and accessory set 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.