

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 1587/MDT FC-NIST Advanced Motor and Drive Troubleshooting Kit

The Fluke 1587/MDT FC-NIST Advanced Motor and Drive Troubleshooting Kit delivers integrated motor and drive diagnostics in a single handheld platform. It combines true-RMS digital multimeter functionality with insulation testing up to 1000 V, eliminating the need for separate instruments on the bench. The kit includes a current clamp rated to 400 A AC and a phase rotation indicator for three-phase system analysis, making it essential for predictive maintenance and field troubleshooting of industrial motor systems. Compatibility & Integration Fluke Connect™ app support enables smartphone/tablet data capture, temperature compensation, and remote measurement sharing for distributed teams and centralized asset tracking. Aumictech offers NIST-traceable calibration and repair for the Fluke 1587/MDT FC-NIST. Calibration covers DC voltage accuracy at all ranges, AC voltage (True RMS) accuracy



MODEL

**Fluke 1587/MDT
FC-NIST**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1587/MDT FC-NIST

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 1587/MDT FC-NIST Advanced Motor and Drive Troubleshooting Kit delivers integrated motor and drive diagnostics in a single handheld platform. It combines true-RMS digital multimeter functionality with insulation testing up to 1000 V, eliminating the need for separate instruments on

the bench. The kit includes a current clamp rated to 400 A AC and a phase rotation indicator for three-phase system analysis, making it essential for predictive maintenance and field troubleshooting of industrial motor systems.

Technical Specifications

Fluke 1587 FC Insulation Multimeter

Insulation test voltage: 50 V, 100 V, 250 V, 500 V, 1000 V

Insulation resistance range: 0.01 M Ω to 2 G Ω

Resistance measurement: 0.1 Ω to 50 M Ω

Safety rating: CAT III 1000 V, CAT IV 600 V

Live circuit detection: Inhibits test above 30 V terminal voltage

Capacitive load rating: Up to 1 μ F

PI/DAR timed ratio tests with TrendIt™ graphing

VFD low-pass filter for drive measurements

Auto-discharge of capacitive voltage

Multimeter Functions

AC/DC voltage, DC millivolts, AC/DC milliamps

Continuity, capacitance, diode test

Temperature and frequency (Hz) measurement

Min/Max recording

Fluke i400 AC Current Clamp

Range: 1 A to 400 A AC

Output: 1 mA per amp

Maximum conductor diameter: 32 mm

Non-intrusive circuit measurement

Safety rating: CAT IV 600 V / CAT III 1000 V

Fluke 9040 Phase Rotation Indicator

Voltage range: 40–700 V

Frequency range: 15–400 Hz

Three-phase and sequence indication

Key Features

TrendIt™ graphs identify moisture and contaminated insulation via PI/DAR analysis

Fluke Connect™ app enables wireless data logging, historical tracking, and cloud sharing

Auto power-off preserves battery life

Large backlit display

Traceable NIST calibration certificate included

Typical Applications

Motor winding insulation integrity assessment

Variable frequency drive diagnostics

Three-phase system phase sequence verification

Condition-based maintenance trending

Preventive troubleshooting before failures occur

Compatibility & Integration

Fluke Connect™ app support enables smartphone/tablet data capture, temperature compensation, and remote measurement sharing for distributed teams and centralized asset tracking.

Features & description

From manufacturer datasheet

Features

• Kit: 1587 FC + i400 clamp + 9040 phase rotation indicator • NIST-traceable calibration certificates with data and uncertainties • Insulation 50 V to 1000 V; 0.01 M Ω to 2 G Ω • Fluke Connect PI/DAR, memory, temperature compensation • VFD low-pass filter on 1587 FC • i400 1 A to 400 A AC, 1 mA/A output • 9040 phase rotation 40 V to 700 V, 15 Hz to 400 Hz • Remote probe, leads, clips, K-type thermocouple, hard case

Applications

• Motor and drive insulation and DMM troubleshooting • AC current measurements without opening the circuit (i400) • Three-phase rotation and sequence verification (9040) • VFD low-pass filter voltage measurements • Jobs requiring NIST-traceable calibration on kit instruments

1587MDTFCNIST Characteristics / Specifications

PARAMETER	VALUE
Model	Fluke 1587/MDT FC-NIST
Manufacturer	Fluke
Instrument Type	Advanced Motor and Drive Troubleshooting Kit
Alias	1587 MDT FC NIST; FLK-1587/MDT FC-NIST
Calibration documentation	NIST-traceable certificates with data and uncertainties
Kit insulation DMM	Fluke 1587 FC
Kit current clamp	Fluke i400
Kit phase indicator	Fluke 9040
Insulation measurement range	0.01 M Ω to 2 G Ω
Insulation test voltages	50 V, 100 V, 250 V, 500 V, 1000 V
Insulation test voltage accuracy	+20%, -0%
Short circuit test current	1 mA nominal
Live circuit inhibit threshold	greater than 30 V
DC voltage best accuracy	$\pm(0.09\% + 2)$ to 1000 V
AC voltage True rms max	1000 V
AC DC current DMM max	400 mA
Resistance DMM range	0.1 Ω to 50.0 M Ω
Capacitance ranges	1000 nF to 9999 μ F
Contact temperature range	-40 C to 537 C
DMM safety category	CAT III 1000 V / CAT IV 600 V
DMM size	5.0 x 10.0 x 20.3 cm
DMM weight	550 g
Clamp current range	1 A to 400 A AC
Clamp accuracy	2% + 0.06 A (45 Hz to 400 Hz)
Clamp output	1 mA/A

PARAMETER	VALUE
Clamp max conductor diameter	32 mm
Clamp usable frequency	5 Hz to 20 kHz
Clamp safety	CAT III 1000 V / CAT IV 600 V
Clamp cable length	1.5 m
Phase voltage range	40 V to 700 V
Phase frequency range	15 Hz to 400 Hz
Phase safety	CAT III 600 V / CAT IV 300 V
Phase size	124 × 61 × 27 mm
Phase weight	200 g
Phase power	from unit under test (no battery)
Connectivity	Fluke Connect FC on insulation DMM
Warranty insulation DMM	3 years Notes Specs from Fluke 1587/MDT FC kit pages, i400 clamp datasheet, and 9040 phase rotation indicator datasheet. NIST suffix denotes calibration documentation on included instruments. Confirm soft vs hard case revision with the shipment.
Kit	1587 FC + i400 clamp + 9040 phase rotation indicator

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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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.