


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 1587FC Insulation Multimeter

Alias: Fluke 1587 FC; 1587FC; Fluke 1587FC Insulation measurement range: 0.01 MΩ to 2 GΩ
 Insulation test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V Insulation test voltage accuracy: +20%, -0%
 The Fluke 1587FC (FLK-1587-FC) is a Fluke Connect-enabled 2-in-1 insulation multimeter combining selectable insulation tests from 50 V to 1000 V (0.01 MΩ to 2 GΩ) with a full-featured true-rms DMM. It adds VFD low-pass filter, PI/DAR via Fluke Connect, capacitance, frequency, temperature, diode, and Min/Max for motors, cables, and switchgear maintenance.



MODEL

Fluke 1587FC

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1587FC

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 1587FC is a dual-function handheld instrument combining digital insulation testing with True RMS multimeter capabilities. It measures insulation resistance from 0.01 MΩ to 2 GΩ across five selectable test voltages (50 V, 100 V, 250 V, 500 V, 1000 V) and performs comprehensive electrical diagnostics on circuits up to 1000 V. Live circuit detection prevents unsafe testing, while auto-discharge protects users from residual capacitive voltage. The multimeter function covers AC/DC voltage (0 mV to 1000 V), current to 400 mA, resistance to 50 MΩ, capacitance to 9999 μF, temperature from -40 °C to 537 °C, and frequency up to 99.99 kHz. PI/DAR timed ratio tests with TrendIt™ graphing accelerate diagnosis of moisture and contamination in insulation systems. Fluke Connect Measurements app integration enables wireless data sharing, remote monitoring,

and historical measurement tracking for enhanced field diagnostics and documentation.

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 Test voltage accuracy: +20%, -0% Short-circuit test current: 1 mA nominal Live circuit detection: Inhibits testing if terminal voltage > 30 V Auto-discharge: Capacitive voltage protection PI/DAR ratio tests: Supported with TrendIt™ graphs Maximum capacitive load: 1 μ F

Digital Multimeter Functions DC voltage: 600.0 mV to 1000 V, accuracy $\pm(0.09\% + 2)$ AC voltage: 600.0 mV to 600.0 V, accuracy $\pm(1\% + 3)$ at 50–60 Hz DC millivolts: 600.0 mV range, resolution 0.1 mV, accuracy $\pm(0.1\% + 1)$ AC/DC current: 0–400 mA (600 mA overload for 2 minutes), accuracy $\pm(0.2\% + 2)$ DC Resistance: 0.1 Ω to 50 M Ω Continuity: Audible tone below 25 Ω Capacitance: 1 nF to 9999 μ F, accuracy $\pm(1.2\% \pm 90 \text{ counts})$ Diode test: 0.6 V at 1.0 mA nominal current

Temperature: -40 °C to 537 °C, resolution 0.1 °C Frequency: 0.01 Hz to 99.99 kHz, accuracy $\pm(0.1\% + 1)$ Input impedance (DC voltage): 10 M Ω nominal

Key Features Large backlit display Fluke Connect™ wireless connectivity Min/Max measurement recording Reading smoothing for reduced display fluctuations

Typical Applications Insulation condition assessment, preventative maintenance, motor and cable diagnostics, electrical troubleshooting, condition-based monitoring with cloud-based data tracking.

Features & description

From manufacturer datasheet

Features

- Fluke Connect wireless PI/DAR, memory, and temperature compensation

Applications

- Insulation resistance testing of motors, cables, and switchgear

1587FC Characteristics / Specifications

PARAMETER	VALUE
Model	FLK-1587-FC
Manufacturer	Fluke
Instrument Type	Insulation Multimeter
Alias	Fluke 1587 FC; 1587FC; Fluke 1587FC
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
Auto discharge time	less than 0.5 s for C = 1 μ F or less
Live circuit inhibit threshold	greater than 30 V
Maximum capacitive load	up to 1 μ F
DC voltage ranges	6.000 V to 1000 V
DC voltage best accuracy	$\pm(0.09\% + 2)$
DC millivolts range	600.0 mV
DC millivolts accuracy	$\pm(0.1\% + 1)$
AC voltage True rms max	1000 V
AC voltage accuracy 50 Hz to 60 Hz class	$\pm(1\% + 3)$ on lower ranges
AC DC current max	400 mA
AC current accuracy class	$\pm(1.5\% + 2)$
DC current accuracy	$\pm(0.2\% + 2)$
Resistance DMM range	0.1 Ω to 50.0 M Ω
Resistance best accuracy	$\pm(0.9\% + 2)$
Capacitance ranges	1000 nF to 9999 μ F
Frequency ranges	99.99 Hz to 99.99 kHz
Frequency accuracy	$\pm(0.1\% + 1)$

PARAMETER	VALUE
Contact temperature range	-40 C to 537 C
Contact temperature accuracy	±(1% + 10 counts)
Display counts	6000 backlit
Safety category	CAT III 1000 V / CAT IV 600 V
Size	5.0 x 10.0 x 20.3 cm
Weight	550 g
Batteries	four AA alkaline
Operating temperature	-20 C to +55 C
Storage temperature	-40 C to +60 C
Altitude operating	2000 m
Wireless radio band	2402 MHz to 2480 MHz
Wireless output power	less than 10 mW
Fuse protection mA input	0.44 A, 1000 V, IR 10 kA
Warranty	3 years standard
Connectivity	Fluke Connect FC Notes Specs from Fluke 1587 FC product page and 1587 FC/1577 Insulation Multimeters technical data. Confirm soft vs hard case and firmware revision on the unit.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 C to +60 C
Operating temperature	20 C to +55 C
Operating Temperature	20 C to +55 C
Altitude operating	2000 m
Wireless radio band	2402 MHz to 2480 MHz
Wireless output power	less than 10 mW
Fuse protection mA input	0.44 A, 1000 V, IR 10 kA
Warranty	3 years standard
Connectivity	Fluke Connect FC Notes Specs from Fluke 1587 FC product page and 1587 FC/1577 Insulation Multimeters technical data. Confirm soft vs hard case and firmware revision on the unit.

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	
Specifications	
PARAMETER	VALUE
Model	FLK-1587-FC
Manufacturer	Fluke
Instrument Type	Insulation Multimeter
Specifications	
PARAMETER	VALUE
Alias	Fluke 1587 FC; 1587FC; Fluke 1587FC
Insulation measurement range	0.01 MΩ to 2 GΩ
Insulation test voltages	50 V, 100 V, 250 V, 500 V, 1000 V
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PARAMETER	VALUE
Insulation test voltage accuracy	+20%, -0%
Short circuit test current	1 mA nominal
Auto discharge time	less than 0.5 s for C = 1 μF or less
Specifications	
PARAMETER	VALUE
Live circuit inhibit threshold	greater than 30 V
Maximum capacitive load	up to 1 μF
DC voltage ranges	6.000 V to 1000 V
Specifications	
PARAMETER	VALUE
DC voltage best accuracy	±(0.09% + 2)
DC millivolts range	600.0 mV
DC millivolts accuracy	±(0.1% + 1)

AC voltage True rms max: 1000 V

AC voltage accuracy 50 Hz to 60 Hz class: $\pm(1\% + 3)$ on lower ranges

Specifications

PARAMETER	VALUE
AC DC current max	400 mA
AC current accuracy class	$\pm(1.5\% + 2)$
DC current accuracy	$\pm(0.2\% + 2)$

Specifications

PARAMETER	VALUE
Resistance DMM range	0.1 Ω to 50.0 M Ω
Resistance best accuracy	$\pm(0.9\% + 2)$
Capacitance ranges	1000 nF to 9999 μ F

Specifications

PARAMETER	VALUE
Frequency ranges	99.99 Hz to 99.99 kHz
Frequency accuracy	$\pm(0.1\% + 1)$
Contact temperature range	-40 C to 537 C

Specifications

PARAMETER	VALUE
Contact temperature accuracy	$\pm(1\% + 10 \text{ counts})$
Display counts	6000 backlit
Safety category	CAT III 1000 V / CAT IV 600 V

Specifications

PARAMETER	VALUE
Size	5.0 x 10.0 x 20.3 cm
Weight	550 g
Batteries	four AA alkaline

Specifications

PARAMETER	VALUE
Operating temperature	-20 C to +55 C
Storage temperature	-40 C to +60 C

PARAMETER	VALUE
Altitude operating	2000 m

Specifications

PARAMETER	VALUE
Wireless radio band	2402 MHz to 2480 MHz
Wireless output power	less than 10 mW
Fuse protection mA input	0.44 A, 1000 V, IR 10 kA

Warranty: 3 years standard

Connectivity: Fluke Connect FC

Notes

Specs from Fluke 1587 FC product page and 1587 FC/1577 Insulation Multimeters technical data. Confirm soft vs hard case and firmware revision on the unit.

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.