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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

FLUKE

Fluke 1587 T Insulation Multimeter

Instrument Type: Telecom Insulation Multimeter Alias: Fluke 1587 T; 1587T Insulation

Multimeter Insulation measurement range: 0.01 MOhm to 100 MOhm Auto discharge: less than

0.5 s for C = 1 uF or less Alias: Fluke 1587 T; 1587T Insulation Multimeter Insulation

measurement range: 0.01 MOhm to 100 MOhm Auto discharge: less than 0.5 s for C = 1 uF or

less Live circuit detection: inhibit if terminal voltage greater than 30 V



MODEL

Fluke 1587T

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1587T

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 1587 T Insulation Multimeter combines insulation testing and true-RMS digital multimetry in a single handheld instrument. It measures insulation resistance from 0.01 MΩ to 2 GΩ across five test voltages (50 V, 100 V, 250 V, 500 V, 1000 V) while providing full multimeter functionality for voltage, current, resistance, capacitance, frequency, and temperature measurements. The unit integrates live circuit detection, auto-discharge in less than 0.5 seconds, and smoothing-capable readings, making it ideal for preventative maintenance and troubleshooting across industrial and telecommunication environments.

Technical Specifications

Insulation Testing Measurement range: 0.01 MΩ to 2 GΩ Test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V Test voltage accuracy: +20%, -0% Short-circuit test current: 1 mA nominal Maximum capacitive load: 1 μF Auto-discharge time: 30 V Multimeter Functions Display: 6000 counts DC voltage: 6 V to 1000 V (±0.09% + 2) AC voltage: 60 V to 1000 V (±2% + 3), true-RMS, 5% to

100% of range DC millivolts: 600.0 mV ($\pm 0.1\%$ + 1) AC/DC current: up to 400 mA (DC accuracy $\pm 0.2\%$ + 2; AC accuracy $\pm 1.5\%$ + 2) Resistance: up to 50 M Ω ($\pm 0.9\%$ + 2) Continuity: Audible tone below 25 Ω ; < 8.0 V open circuit voltage Capacitance: up to 9,999 μ F ($\pm 1.2\%$ + 2) Frequency: 10 Hz to 20 kHz ($\pm 0.1\%$ + 1) Temperature: -40 °C to 537 °C (0.1 °C resolution) Diode test function included

Key Features Dual functionality eliminates need for separate insulation tester and multimeter Live circuit detection prevents unsafe measurements Operates with up to 1 μ F capacitive loads Input impedance 10 M Ω nominal with < 100 pF capacitance 1000 V rms/dc overload protection True-RMS AC measurement with crest factor handling up to 3 (at ≤ 500 V)

Typical Applications Motor and generator insulation verification, cable testing, switchgear assessment, preventative electrical maintenance, telecommunications infrastructure diagnostics.

Compatibility & Integration Note: For telecom applications, certain configurations may limit test voltages to 50 V and 100 V.

Features & description

From manufacturer datasheet

Features

- Telecom insulation voltages 50 V and 100 V only

Applications

- Telecom insulation testing at 50 V / 100 V

1587T Characteristics / Specifications

PARAMETER	VALUE
Model	1587T
Manufacturer	Fluke
Instrument Type	Telecom Insulation Multimeter
Alias	Fluke 1587 T; 1587T Insulation Multimeter
Insulation measurement range	0.01 MOhm to 100 MOhm
Insulation test voltages	50 V, 100 V
Test voltage accuracy	+20%, -0%
Insulation test current	1 mA nominal
Auto discharge	less than 0.5 s for C = 1 uF or less
Maximum capacitive load	up to 1 uF
Live circuit detection	inhibit if terminal voltage greater than 30 V
DC voltage maximum	1000 V
DC voltage best accuracy	$\pm(0.09\% + 2)$
DC voltage max resolution	1 mV
AC voltage maximum	1000 V
AC voltage accuracy class	$\pm(2\% + 3)$
AC voltage max resolution	0.1 mV
DC current maximum	400 mA
DC current accuracy	$\pm(0.2\% + 2)$
AC current maximum	400 mA
AC current accuracy	$\pm(1.5\% + 2)$
Resistance maximum	50.0 MOhm
Resistance accuracy	$\pm(0.9\% + 2)$
Capacitance maximum	9999 uF
Capacitance accuracy	$\pm(1.2\% + 2)$

PARAMETER	VALUE
Frequency maximum	99.99 kHz
Frequency accuracy	$\pm(0.1\% + 1)$
Temperature range	-40 C to 537 C
Temperature accuracy	$\pm(1\% + 10)$
Display counts	6000
Safety category	CAT III 1000 V / CAT IV 600 V
IP rating	IP40
Operating temperature	-20 C to 55 C
Storage temperature	-40 C to 60 C
Power supply	4 x AA batteries
Battery life meter	1000 hours
Battery life insulation	greater than 1000 tests
Size	203 mm x 100 mm x 50 mm
Weight	0.55 kg
Warranty	3 years Notes Specs from Fluke 1577/1587/1587T datasheet and 1587T manuals. 1587T insulation voltages are 50 V and 100 V only (not the full 1587 set to 1000 V).

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
Power supply	4 x AA batteries
Battery life meter	1000 hours
Battery life insulation	greater than 1000 tests
Size	203 mm x 100 mm x 50 mm
Weight	0.55 kg
Warranty	3 years Notes Specs from Fluke 1577/1587/1587T datasheet and 1587T manuals. 1587T insulation voltages are 50 V and 100 V only (not the full 1587 set to 1000 V).

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	1587T
Manufacturer	Fluke
Instrument Type	Telecom Insulation Multimeter
Specifications	
PARAMETER	VALUE
Alias	Fluke 1587 T; 1587T Insulation Multimeter
Insulation measurement range	0.01 MOhm to 100 MOhm
Insulation test voltages	50 V, 100 V
Specifications	
PARAMETER	VALUE
Test voltage accuracy	+20%, -0%
Insulation test current	1 mA nominal
Auto discharge	less than 0.5 s for C = 1 uF or less
Specifications	
PARAMETER	VALUE
Maximum capacitive load	up to 1 uF
Live circuit detection	inhibit if terminal voltage greater than 30 V
DC voltage maximum	1000 V
Specifications	
PARAMETER	VALUE
DC voltage best accuracy	±(0.09% + 2)
DC voltage max resolution	1 mV
AC voltage maximum	1000 V

Specifications

PARAMETER	VALUE
AC voltage accuracy class	$\pm(2\% + 3)$
AC voltage max resolution	0.1 mV
DC current maximum	400 mA

Specifications

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

Specifications

PARAMETER	VALUE
Resistance maximum	50.0 MOhm
Resistance accuracy	$\pm(0.9\% + 2)$
Capacitance maximum	9999 uF

Specifications

PARAMETER	VALUE
Capacitance accuracy	$\pm(1.2\% + 2)$
Frequency maximum	99.99 kHz
Frequency accuracy	$\pm(0.1\% + 1)$

Specifications

PARAMETER	VALUE
Temperature range	-40 C to 537 C
Temperature accuracy	$\pm(1\% + 10)$
Display counts	6000

Specifications

PARAMETER	VALUE
Safety category	CAT III 1000 V / CAT IV 600 V
IP rating	IP40
Operating temperature	-20 C to 55 C

Specifications

PARAMETER	VALUE
Storage temperature	-40 C to 60 C
Power supply	4 x AA batteries
Battery life meter	1000 hours

Specifications

PARAMETER	VALUE
Battery life insulation	greater than 1000 tests
Size	203 mm x 100 mm x 50 mm
Weight	0.55 kg

Warranty: 3 years

Notes

Specs from Fluke 1577/1587/1587T datasheet and 1587T manuals. 1587T insulation voltages are 50 V and 100 V only (not the full 1587 set to 1000 V).

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<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.