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Data Sheet

August 13, 2026

FLUKE

Fluke 1507 Insulation Resistance Multimeter

The Fluke 1507 is a handheld insulation resistance tester for industrial and electrical applications. It offers selectable test voltages from 50 V to 1000 V with a measurement range of 0.01 MΩ to 10 GΩ, plus AC/DC voltage to 600 V, earth-bond resistance to 20 kΩ, and automatic Polarization Index (PI) and Dielectric Absorption Ratio (DAR) calculations. Instrument Type: Insulation Resistance Tester Alias: Fluke 1507 Insulation Multimeter class listing; Fluke 1507 Megohmmeter Insulation measurement range: 0.01 MΩ to 10 GΩ Insulation test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V



MODEL

Fluke 1507

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1507

LISTING

<https://aumictechlabs.com/products/1507-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fluke 1507 is a compact, field-ready insulation resistance multimeter designed for industrial electrical testing, commissioning, and preventative maintenance. It measures insulation resistance from 0.01 MΩ to 10 GΩ across five selectable test voltages (50 V, 100 V, 250 V, 500 V, 1000 V) with measurement accuracy ranging from $\pm(1.5\% + 5)$ at higher voltages to $\pm(3\% + 5)$ at 50–100 V. The instrument automatically calculates Polarization Index and Dielectric Absorption Ratio, detects live circuits above 30 V, and discharges capacitive loads under 1 μF in less than 0.5 seconds for operator safety. Technical Specifications Insulation Resistance Measurement range: 0.01 MΩ to 10 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 Measurement accuracy: $\pm(3\% + 5)$ at 50–100 V; $\pm$

(1.5% + 5) at 250–1000 V and up to 2000 M Ω ; $\pm(10\% + 3)$ above 2000 M Ω Auto discharge time: < 0.5 seconds for $\leq 1 \mu\text{F}$ load Live circuit detection: Inhibits test if terminal voltage exceeds 30 V AC/DC Voltage Range: 0.1 V to 600 V Resolution: 0.1 V Accuracy: $\pm(2\% + 3 \text{ digits})$ at 50–400 Hz Input impedance: 3 M Ω nominal; 200 mA Key Features Automatic PI and DAR calculations Pass/fail compare function for repetitive measurements Remote test probe included for hard-to-reach locations Pushbutton-controlled test probe Backlit LCD display with LED pass/fail and voltage indicators Auto power-off to extend battery life Four AA alkaline batteries; 1000+ tests at 1000 V; 2500+ earth bond tests Rugged design: survives 1-meter drops Typical Applications Motor and transformer insulation testing Cable and winding diagnostics Earth continuity and bonding verification Maintenance and commissioning of electrical equipment Field troubleshooting in industrial environments Physical & Mechanical Dimensions: 50 mm $\times$ 100 mm $\times$ 203 mm Weight: 550 g

Features & description

From manufacturer datasheet

Features

- Test voltages 50/100/250/500/1000 V

Applications

- Insulation resistance testing of motors, cables, and switchgear

1507 Characteristics / Specifications

PARAMETER	VALUE
Model	1507
Manufacturer	Fluke
Instrument Type	Insulation Resistance Tester
Alias	Fluke 1507 Insulation Multimeter class listing; Fluke 1507 Megohmmeter
Insulation measurement range	0.01 M Ω to 10 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 insulation	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
Insulation accuracy 50 V	$\pm(3\% + 5)$
Insulation accuracy 100 V	$\pm(3\% + 5)$
Insulation accuracy 250 V	$\pm(1.5\% + 5)$
Insulation accuracy 500 V	$\pm(1.5\% + 5)$
AC DC voltage range	600.0 V / 0.1 V
AC DC voltage accuracy 50 Hz to 400 Hz	$\pm(2\% + 3)$
Input impedance voltage	3 M Ω nominal, less than 100 pF
CMRR voltage	greater than 60 dB at DC, 50 or 60 Hz
Voltage overload protection	600 V rms or DC
Earth bond ranges	20.00 Ω / 200.0 Ω / 2000 Ω / 20.00 k Ω
Earth bond accuracy	$\pm(1.5\% + 3)$
Earth bond open circuit voltage	greater than 4.0 V, less than 8 V
Earth bond short circuit current	greater than 200.0 mA
Max voltage any terminal	600 V AC rms or DC

PARAMETER	VALUE
Operating temperature	-20 C to 55 C
Storage temperature	-40 C to 60 C
Size	5.0 x 10.0 x 20.3 cm
Weight	550 g
IP rating	IP40
Batteries	four AA alkaline NEDA 15A / IEC LR6
Battery life insulation tests	at least 1000 standard tests
Battery life resistance tests	at least 2500 earth-bond tests class
Safety category	CAT IV 600 V
Altitude operating CAT IV	2000 m
Altitude operating CAT III	3000 m
Shock	1 meter drop per IEC 61010-1
Vibration	random 2 g, 5-500 Hz per MIL-PRF-28800F Class 2 Notes Specs from Fluke 1507 Insulation Resistance Tester datasheet. Confirm accessories and compare-function 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
Size	5.0 x 10.0 x 20.3 cm
Weight	550 g
IP rating	IP40
Batteries	four AA alkaline NEDA 15A / IEC LR6
Battery life insulation tests	at least 1000 standard tests
Battery life resistance tests	at least 2500 earth-bond tests class
Safety category	CAT IV 600 V
Altitude operating CAT IV	2000 m
Altitude operating CAT III	3000 m
Shock	1 meter drop per IEC 61010-1
Vibration	random 2 g, 5-500 Hz per MIL-PRF-28800F Class 2 Notes Specs from Fluke 1507 Insulation Resistance Tester datasheet. Confirm accessories and compare-function 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	1507
Manufacturer	Fluke
Instrument Type	Insulation Resistance Tester
Specifications	
PARAMETER	VALUE
Alias	Fluke 1507 Insulation Multimeter class listing; Fluke 1507 Megohmmeter
Insulation measurement range	0.01 MΩ to 10 GΩ
Insulation test voltages	50 V, 100 V, 250 V, 500 V, 1000 V
Specifications	
PARAMETER	VALUE
Insulation test voltage accuracy	+20%, -0%
Short circuit test current insulation	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
Insulation accuracy 50 V	±(3% + 5)
Specifications	
PARAMETER	VALUE
Insulation accuracy 100 V	±(3% + 5)
Insulation accuracy 250 V	±(1.5% + 5)
Insulation accuracy 500 V	±(1.5% + 5)

Insulation accuracy 1000 V to 2000 MΩ: ±(1.5% + 5)

Insulation accuracy 1000 V above 2000 MΩ: ±(10% + 3)

AC DC voltage range: 600.0 V / 0.1 V

AC DC voltage accuracy 50 Hz to 400 Hz: ±(2% + 3)

Specifications

PARAMETER	VALUE
Input impedance voltage	3 MΩ nominal, less than 100 pF
CMRR voltage	greater than 60 dB at DC, 50 or 60 Hz
Voltage overload protection	600 V rms or DC

Specifications

PARAMETER	VALUE
Earth bond ranges	20.00 Ω / 200.0 Ω / 2000 Ω / 20.00 kΩ
Earth bond accuracy	±(1.5% + 3)
Earth bond open circuit voltage	greater than 4.0 V, less than 8 V

Specifications

PARAMETER	VALUE
Earth bond short circuit current	greater than 200.0 mA
Max voltage any terminal	600 V AC rms or DC
Operating temperature	-20 C to 55 C

Specifications

PARAMETER	VALUE
Storage temperature	-40 C to 60 C
Size	5.0 x 10.0 x 20.3 cm
Weight	550 g

Specifications

PARAMETER	VALUE
IP rating	IP40
Batteries	four AA alkaline NEDA 15A / IEC LR6
Battery life insulation tests	at least 1000 standard tests

Specifications

PARAMETER	VALUE
Battery life resistance tests	at least 2500 earth-bond tests class
Safety category	CAT IV 600 V
Altitude operating CAT IV	2000 m

Specifications

PARAMETER	VALUE
Altitude operating CAT III	3000 m
Shock	1 meter drop per IEC 61010-1
Vibration	random 2 g, 5-500 Hz per MIL-PRF-28800F Class 2

Notes

Specs from Fluke 1507 Insulation Resistance Tester datasheet. Confirm accessories and compare-function 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.