

INSULATION TESTERS



Fluke 1587 FC/1577 Insulation Multimeters

The High-Performance 2-in-1 Insulation DMM

The Fluke 1587 FC and 1577 Insulation Multimeters combine a digital insulation tester with a full-featured, true-rms digital multimeter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventive maintenance.

The Fluke 1587 FC Insulation Multimeter adds four powerful new diagnostic functions through the Fluke Connect® Measurements app:

- PI/DAR timed ratio tests with TrendIt™ graphs identifies moisture and contaminated insulation problems faster
- Memory storage through Fluke Connect eliminates writing down results, reduces errors and saves data for historical tracking over time
- Temperature Compensation through app for establishing accurate baselines and relevant historical comparisons
- Historical tracking and trending of assets identifies degradation over time, allows real-time decisions to be made in the field with Fluke Connect® Assets (sold separately)

Specifications

	1587 FC	1577
PI/DAR timed ratio measurements with TrendIt™ graphs through Fluke Connect Measurements app	•	
Memory storage through Fluke Connect Measurements app	•	
Temperature Compensation through Fluke Connect Measurements app	•	
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V	•	
Insulation test voltages 500 V, 1000 V		•
Insulation resistance	0.01 MΩ to 2.0 GΩ	0.1 MΩ to 600 MΩ
Auto-discharge of capacitive voltage	•	•
Insulation test smoothing reading	•	
Frequency	•	
Capacitance	•	
Diode test	•	
Temperature	•	
Min/Max	•	
VFD low-pass filter for accurate motor drive measurements	•	
AC/DC voltage	•	•
DC millivolts	•	•
AC/DC milliamps	•	•
Resistance	0.1 Ω to 50 MΩ	0.1 Ω to 50 MΩ
Continuity	•	•
Auto power off	•	•
Warranty (years)	3	3

Ordering information

Models	Included accessories
FLUKE-1587 FC Insulation Multimeter	Remote probe, test leads, alligator clips, K-type thermocouple, hard case, users documentation
FLUKE-1577 Insulation Multimeter	Remote probe, test leads, alligator clips, hard case, users documentation

Troubleshooting efficiency and maximum versatility while testing motors and VSDs accurately with Low-Pass filter.



Kits—buy more, save more

Kits—buy more, save more		Recommended accessories	
Fluke 1587 KIT/62MAX+ FC Advanced Electrical Troubleshooting Kit	Fluke 1587/MDT FC Advanced Motor and Drive Troubleshooting Kit	TLK289 Industrial Master Test Lead Set	i400 AC Current Clamp

Fluke 1507 and 1503 Insulation Resistance Testers

The quality, durability, and convenience you need

These lightweight, affordable insulation testers are perfect for troubleshooting, commissioning and preventive maintenance applications.

- Automatic calculation of polarization index and dielectric absorption ratio (1507 only)
- Multiple test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V (1507 only)
- Remote test probe for rapid testing
- Insulation test range 0.01 MΩ to 10 GΩ (1507), 0.1 MΩ to 2 GΩ (1503)
- Compare (Pass/Fail) function for repetitive tests (1507 only)
- Live circuit detection prevents insulation test if voltage > 30 V is detected
- Auto-discharge of capacitive voltage
- AC/DC voltage: 0.1 V to 600 V
- Lo ohms/Earth-bond continuity (200 mA) for checking connections and motor windings
- Resistance: 0.01 Ω to 20.00 kΩ

Specifications

	1507	1503
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V	•	
Insulation test voltages 500 V, 1000 V		•
Insulation resistance	0.01 MΩ to 10 GΩ	0.1 MΩ to 2 GΩ
Auto-discharge of capacitive voltage	•	•
Continuity function	200 mA acc. EN 61557-4	
Resistance	0.1 Ω to 20.00 kΩ	0.1 Ω to 20.00 kΩ
Auto power off	•	•
Warranty (years)	1	1

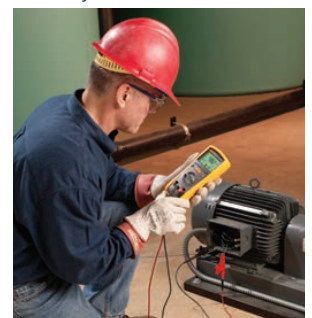
Ordering information

Models	Included accessories
FLUKE-1507 Insulation Tester	Remote probe, silicone test leads, test probes, large alligator clips, holster, users manual
FLUKE-1503 Insulation Tester	Remote probe, silicone test leads, test probes, large alligator clips, holster, users manual



Magnetic Meter Hanger frees up both hands to focus on making measurements safely.

Check connections and motor windings with Lo ohms/earth-bond continuity test.



Recommended accessories

<p>TLK289 Industrial Master Test Lead Set</p>	<p>TL27 Heavy Duty Test Lead Set</p>	<p>C116 Soft Carrying Case</p>	<p>C101 Hard Case</p>
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INSULATION TESTERS



1555 and 1550C Insulation Resistance Testers

Powerful troubleshooting and predictive maintenance tools

The Fluke 1555 and Fluke 1550C Insulation Resistance Testers offer digital insulation testing up to 10 kV, making them ideal for testing a wide range of high voltage equipment including switchgear, motors, generators and cables.

- Test voltages up to 5 kV (1550C) and 10 kV (1555) provide solutions for all applications
- Warning function alerts the user that line voltage is present and gives a voltage reading up to 600 V ac or dc for increased user safety
- Measurements can be stored in up to 99 memory locations, and each location is assigned a unique, user-defined label for easy recall
- Automatic calculation of Dielectric Absorption (DAR) and Polarization Index (PI) with no additional setup
- Guard system eliminates the effect of surface leakage current on high-resistance measurements
- Capacitance and leakage current measurement
- Ramp function for breakdown testing

Selection guide

	1555	1550C
Insulation test voltages: User selectable 250 V to 5000 V		•
Insulation test voltages: User selectable 250 V to 10,000 V	•	
Insulation resistance	2 TΩ	1 TΩ
Auto-discharge of capacitive voltage	•	•
Warranty (years)	3	3

Specifications

Test voltage (dc)	Range	Accuracy (± reading)
250 V	< 250 kΩ	unspecified
	250 kΩ to 5 GΩ	5%
	5 GΩ to 50 GΩ	20%
	> 50 GΩ	unspecified
500 V	< 500 kΩ	unspecified
	500 kΩ to 10 GΩ	5%
	10 GΩ to 100 GΩ	20%
	> 100 GΩ	unspecified
1000 V	< 1 MΩ	unspecified
	1 MΩ to 20 GΩ	5%
	20 GΩ to 200 GΩ	20%
	> 200 GΩ	unspecified
2500 V	< 2.5 MΩ	unspecified
	2.5 MΩ to 50 GΩ	5%
	50 GΩ to 500 GΩ	20%
	> 500 GΩ	unspecified
5000 V	< 5 MΩ	unspecified
	5 MΩ to 100 GΩ	5%
	100 GΩ to 1 TΩ	20%
	> 1 TΩ	unspecified
10000 V (1555 only)	< 10 MΩ	unspecified
	10 MΩ to 200 GΩ	5%
	200 GΩ to 2 TΩ	20%
	> 2 TΩ	unspecified
Functions		
Leakage current	1 nA to 2 mA	± (20% + 2 nA)
Capacitance measurement	0.01 uF to 20.00 μF	± (15% rdg + 0.03 μF)
Live circuit indicator	30 V to 1100 V ac/dc, 50/60 Hz	±(15% + 2 V)

Ordering information

Models	Included accessories
FLUKE-1550C 5 kV Insulation Tester	Test leads with alligator clips, infrared adapter with interface cable, FlukeView Forms software, ac power cord, soft carrying case, quick reference guide, users manual
FLUKE-1555 10 kV Insulation Tester	
FLUKE-1550C KIT	Test leads with ruggedized alligator clips, infrared adapter with interface cable, FlukeView Forms software, AC power cord, hard carrying case, quick reference guide, users manual, NIST traceable certificate
FLUKE-1555 KIT	

Flexibility for testing wide range of high voltage applications.

