

# Fluke 1587 and 1577 Insulation Multimeters



Fluke 1587

## Two powerful tools in one

The Fluke 1587 and 1577 Insulation Multimeters combine a digital 1 kV 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.

- Insulation test (1587: 0.01 M $\Omega$  to 2 G $\Omega$ ) (1577: 0.1 M $\Omega$  to 600 M $\Omega$ )
- Insulation test voltages (1587: 50 V, 100 V, 250 V, 500 V, 1000 V), (1577: 500 V, 1000 V) for many applications
- Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection
- Auto-discharge of capacitive voltage for added user protection
- Filter for motor drive measurements (1587 only)
- AC/DC voltage, dc millivolts, ac/dc milliamps, resistance ( $\Omega$ ), and continuity
- Capacitance, diode test, temperature, Min/Max, and frequency (Hz) (1587 only)
- Auto power off to save battery power
- Large display with backlight and large digits
- Included accessories: Remote probe, test leads and probes, alligator clips, (Type K thermocouple, 1587 only)
- Accepts optional Fluke TPAK magnetic hanging system to free your hands for other work
- Rugged, utility hard case allows you to bring everything you need for the job



Fluke 1577



## Specifications

Features	1587	1577	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 M $\Omega$ to 2.0 G $\Omega$	0.1 M $\Omega$ to 600 M $\Omega$	0.01 M $\Omega$ to 10 G $\Omega$	0.1 M $\Omega$ to 2 G $\Omega$
Auto-discharge of capacitive voltage	•	•	•	•
Insulation test smoothing reading	•	–	–	–
Frequency	•	–	–	–
Capacitance	•	–	–	–
Diode test	•	–	–	–
Temperature	•	–	–	–
Min/Max	•	–	–	–
Low-pass filter (for work on VSDs)	•	–	–	–
AC/DC voltage	•	•	–	–
DC millivolts	•	•	–	–
AC/DC milliamps	•	•	–	–
Resistance	0.1 $\Omega$ to 50 M $\Omega$	0.1 $\Omega$ to 50 M $\Omega$	0.1 $\Omega$ to 20.00 K $\Omega$	0.1 $\Omega$ to 20.00 K $\Omega$
Continuity	•	•	•	•
Warranty	Three-year	Three-year	One-year	One-year
Remote probe, test leads, alligator clips	•	•	•	•
Type K thermocouple	•	–	–	–
Rugged, utility hard case	•	•	•	•
Auto power off	•	•	•	•
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## Ordering information

Included accessories	Models
Remote probe, test leads, alligator clips, Type K thermocouple (1587 only), hard case and users manual.	FLUKE-1577 Insulation Multimeter
	FLUKE-1587 Insulation Multimeter
	FLUKE-1587/ET Advanced Electrical Troubleshooting Kit
	FLUKE-1587/MDT Advanced Motor and Drive Troubleshooting Kit

## Recommended accessories



**TPAK**  
Magnetic Meter Hanger  
See page 71



**i400**  
AC Current Clamp  
See page 69



**C100**  
Universal Carrying Case  
See page 63



**TL27**  
Heavy Duty Test Leads

## Recommended kits

### Get more value and productivity

Establishing a preventive maintenance program is becoming critical to maintaining the uptime of electrical equipment and can significantly reduce both planned and unplanned downtime. Unplanned downtime costs are difficult to calculate, but are often significant. For some industries, it can represent 1 % to 3 % of revenue (potentially 30 % to 40 % of profits) annually.

These kits can help you be proactive and efficient with your maintenance and can save you up to 10 % off the individual price of the tools.



### Fluke 1587/ET Advanced Electrical Troubleshooting Kit includes:

- Fluke 1587 Insulation Multimeter
- Fluke i400 Current Clamp
- Fluke 62 MAX+ Infrared Thermometer



### Fluke 1587/MDT Advanced Motor and Drive Troubleshooting Kit includes:

- Fluke 1587 Insulation Multimeter
- Fluke i400 Current Clamp
- Fluke 9040 Phase Rotation Indicator

Check price and availability at  
[www.fluke.com/wtb](http://www.fluke.com/wtb)

# Fluke 1507/1503 Insulation Resistance Testers



Fluke 1507

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

## Features

- 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 2000 MΩ (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 Ω
- One-year warranty



Fluke 1503



## Recommended accessories



**TPAK**  
Magnetic Meter Hanger  
See page 71



**TL27**  
Heavy Duty Test Lead Set



**C116**  
Soft Carrying Case  
See page 63



**C101**  
Hard Case  
See page 63



**360**  
AC Leakage Current  
Clamp Meter  
See page 5

## Selection guide

Features	1555	1550C	1507	1503	1587	1577
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V	–	–	•	–	•	–
Insulation test voltages 500 V, 1000 V	–	–	–	•	–	•
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	0.01 MΩ to 10 GΩ	0.1 MΩ to 2 GΩ	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	–	–	–	–	•	–
Low-pass filter (for work on VSDs)	–	–	–	–	•	–
AC/DC voltage	–	–	–	–	•	•
DC millivolts	–	–	–	–	•	•
AC/DC milliamps	–	–	–	–	•	•
Resistance	–	–	0.1 Ω to 20.00 KΩ	0.1 Ω to 20.00 KΩ	0.1 Ω to 50 MΩ	0.1 Ω to 50 MΩ
Continuity	–	–	–	–	•	•
Warranty (years)	3	3	1	1	3	3
Remote probe, test leads, alligator clips	•	•	•	•	•	•
Type K thermocouple	–	–	–	–	•	–
Rugged, utility hard case	•	•	•	•	•	•
Auto power off	•	•	•	•	•	•
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## Ordering information

Included accessories	Models	
Remote probe, silicone test leads, test probes, large alligator clips, holster, users manual.	FLUKE-1507	Insulation Tester
	FLUKE-1503	Insulation Tester
Soft carrying pouch, users manual.	FLUKE-360	AC Leakage Current Clamp Meter

Check price and availability at  
[www.fluke.com/wtb](http://www.fluke.com/wtb)