

# 1577/1587 Insulation Multimeters

FLUKE®



Fluke 1577

Fluke 1587  
Fluke 1587T



## Included Accessories

C101 Rugged, utility hard case  
TL224 SureGrip Silicone Test Lead Set  
AC285 SureGrip Alligator Clip Set  
80BK Integrated DMM Temperature Probe (Type K)  
TP165X Remote Test Probe

## Ordering Information

Fluke 1577 Insulation Multimeter  
Fluke 1587 Insulation Multimeter  
Fluke 1587T Insulation Multimeter (for Telecom)

## Two powerful tools in one

The Fluke 1587 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.

Whether you work on motors, generators, cables, or switch-gear, the Fluke 1587/1577 Insulation Multimeters are ideally suited to help you with your tasks.

The Fluke 1587T is specially designed for the telecom environment.

## Features

Multimeter Features	1577	1587	1587T
True RMS Voltage and Current for accurate measurements	●	●	●
Digital display counts	6000	6000	6000
Autorange and manual range for easy testing.	●	●	●
Selectable filter for accurate voltage and frequency measurements on motor drives		●	●
Min Max Recording, Diode test, temperature, capacitance & frequency measurement for maximum flexibility.		●	●
Insulation features			
User selectable test voltages for many applications	●	●	
Additional test voltages 50V, 100V, 250V		●	
Special remote control probe for easy and safe measurements	●	●	●
Auto-discharge of capacitive voltage for added user protection	●	●	●
Live circuit detection prevents insulation test if voltage > 30V is detected for added user protection	●	●	●
General features			
Auto Power off to save batteries	●	●	●
Large display with backlight	●	●	●
Input Alert to warn for incorrect connections	●	●	●
Continuity	●	●	●

## Insulation Specifications

Functions	1577	1587	1587T
Measurement range	0.1MΩ to 600MΩ	0.01MΩ to 2GΩ	0.01MΩ to 100MΩ
Test voltages	500V, 1000V	50V, 100V, 250V, 500V, 1000V	50V, 100V
Test voltage accuracy	+ 20%, -0%	+ 20%, -0%	+ 20%, -0 %
Insulation test current	1mA nominal	1 mA nominal	1 mA nominal
Auto discharge	Discharge time < 0.5s for C = 1 μF or less	Discharge time <0.5s for C = 1 μF or less	Discharge time <0.5s for C = 1 μF or less
Maximum capacitive load	Up to 1 μF load	Up to 1 μF load	Up to 1 μF load

## Multimeter Specifications

Functions	Maximum	Max. resolution	1577	1587/1587T
Voltage DC	1000V	1 mV	± (0.2% + 2)	± (0.09% + 2)
Voltage AC	1000V	0.1mV	± (2% + 3)	± (2% + 3)
Current DC	400mA	0.01mA	± (1.0% + 2)	± (0.2% + 2)
Current AC	400mA	0.01mA	± (2% + 2)	± (1.5% + 2)
Resistance	50.0MΩ	0.1Ω	± (1.2% + 2)	± (0.9% + 2)
Capacitance	9999μF	1 nF	-	± (1.2% + 2)
Frequency	99.99kHz	0.01 Hz	-	± (0.1% + 1)
Temperature	-40°C to +537°C	0.1°C	-	± (1% + 10)

**Battery life:** Meter: 1000 hrs,  
Insulation Test: >1000 tests

**Weight:** 0.55 kg  
**Three Year Warranty**

**Size (HxWxD):**  
203 mm x 100 mm x 50 mm

## Recommended Accessories



C25  
See page 118



i400  
See page 114



TPAK  
See page 120



L215  
See page 111



TL238  
See page 110