

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