



MIS-D5

Digital Insulation Tester



Three Test Voltages, One Hand.

A handheld megohmmeter for insulation testing on appliances, motors, cables and plug-connected equipment. Three DC test voltages are selected on the rotary switch, and the insulation range changes with them.

At 250 V and 500 V the instrument reads to 200 MΩ. At 1000 V it reads to 2000 MΩ, so the full 2 GΩ is available on the top voltage only. A separate 2000 Ω range with a continuity buzzer covers bonding and lead checks.

A guard terminal sits alongside the earth, line and V/Ω sockets, so surface leakage across a damp or dirty insulator can be taken out of the reading rather than added to it.

KEY FEATURES

- 250 / 500 / 1000 V DC test voltages
- 200 MΩ at 250 and 500 V · 2000 MΩ at 1000 V
- 2000 Ω range with continuity buzzer
- Guard terminal for surface leakage
- AC 750 V and DC 1000 V measurement
- PRESS TO TEST, turn to LOCK for continuous

IDEAL FOR

- Appliances and plug-connected equipment
- Motor and transformer winding checks
- Cable and flexible lead insulation
- Panel building and workshop testing
- Periodic inspection and fault finding

MEASUREMENT RANGES

Range	Accuracy	Resolution	Method
Insulation resistance · DC test voltage selected on the rotary switch			
200 MΩ	±(4% rdg + 2 digits)	0.1 MΩ	250 V DC
200 MΩ	±(4% rdg + 2 digits)	0.1 MΩ	500 V DC
2000 MΩ	±(4% rdg + 2 digits)	1 MΩ	1000 V DC
Resistance and continuity			
2000 Ω	±(0.8% rdg + 6 digits)	1 Ω	Buzzer below 50 Ω ±10 Ω
Voltage			
DC 1000 V	±(0.5% rdg + 6 digits)	1 V	V/Ω to COM
AC 750 V, 50 to 200 Hz	±(1% rdg + 6 digits)	1 V	V/Ω to COM

Accuracy is quoted at 23 ±5 °C with relative humidity below 75%. Resolution follows from the 1999-count display. The instrument is rated CAT II 600 V, so it is intended for appliances and plug-connected equipment rather than for work on a fixed installation. Discharge is automatic when the test ends.



WHAT'S IN THE BOX

- MIS-D5 digital insulation tester
- Test leads with alligator clips
- Instruction manual

BATTERIES · Six 1.5 V AA (LR6) cells are required and are not supplied with the instrument. An external DC adapter and a shoulder strap are available separately.

GENERAL SPECIFICATIONS

Code	Item	Part Number
MIS-D5	Handheld digital insulation resistance tester, 250 / 500 / 1000 V	870167

MEASURES

Insulation resistance at 250, 500 and 1000 V DC · resistance to 2000 Ω with continuity buzzer · AC and DC voltage

DISPLAY

75 × 52 mm LCD, 1999 count, backlit · data hold · about three readings per second · over-range shows "1"

TERMINALS

E, G, V/Ω and L · G is a guard terminal for rejecting surface leakage · maximum input 1000 V DC / 750 V AC

INPUT IMPEDANCE

1 MΩ on the voltage ranges

ENVIRONMENT

Operating 0 to 40 °C, below 85% RH · storage -20 to 60 °C, below 90% RH · to 2000 m

WARRANTY

1 year, subject to product registration with GPS LTD · service and calibration available

TEST VOLTAGES

250 / 500 / 1000 V DC selected on the rotary switch · HV indicator lamp lit whenever the output is live

OPERATION

Manual ranging · PRESS TO TEST, press and turn to LOCK for continuous measurement · automatic discharge after test

SAFETY

IEC 61010-1 · CAT II 600 V · overload protection on the voltage and resistance ranges · audible and visual alarms · CE

POWER

6 × 1.5 V AA (LR6), not supplied · optional external DC adapter · low battery indicator

DIMENSIONS · WEIGHT

178 × 110 × 62 mm · 580 to 630 g with batteries