



Insulation/Continuity

INSULATION RESISTANCE measurement.

- **5 different test voltages** (50, 100, 250, 500 and 1000 V) provide the tests required for all installations encountered.
- **Extremely wide range** of insulation resistance (up to 20 GΩ) enables periodic analysis of changes in insulation material.
- **Automatic discharge** of the equipment under test after completion of the test.

CONTINUITY measurement at 200 mA is automatically done on both polarities to ensure compliance with the latest standards.

- **Automatic compensation of test leads** (up to 5 Ω) eliminates lead resistance.

LOW CURRENT up to 7 mA continuity function for testing of electrical motors, inductive windings, transformers, etc.

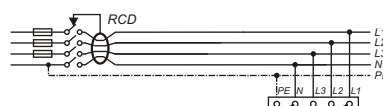
VOLTAGE AND FREQUENCY measurement.

- 1000 memory locations and PC Software for print-out of measurement protocol.
- Warnings are given if hazardous voltages are detected.
- Socket for external battery charger.
- Auto power-off.

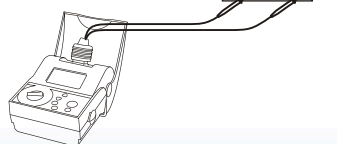
Measurements and testing in accordance with: EN / IEC 61557-2, EN / IEC 61557-4, DIN / VDE 0413-1, DIN / VDE 0413-4, DIN / VDE 100, BS 7671, 16th Edition, CEI 64.8 EN / IEC 61010-1

Typical connection

Insulation Resistance measurement



Connection of the instrument to item under test



SINGLE FUNCTION TESTS



Technical Specification

Insulation Resistance

Display range ($U_n < 500$ V): 0 ÷ 200 MΩ
 Display range ($U_n \geq 500$ V): 0 ÷ 20 GΩ (0 ÷ 1 GΩ MI 2123C)
 Resolution (MΩ): 0.001, 0.01, 0.1, 1, 10
 Accuracy: ± (5 % of reading + 0.003 MΩ) for $U_n < 500$ V
 ± (3 % of reading + 0.03 MΩ) for $U_n \geq 500$ V

Nominal test voltage: 50, 100, 250, 500, 1000 V
Continuity 200 mA: (Automatic polarity exchange)

Measuring range (Ω): 0 ÷ 2000
 Resolution (Ω): 0.01, 0.1, 1
 Accuracy: ± (2 % of reading + 0.02 Ω) for $R < 20$ Ω
 ± (3 % of reading + 0.03 Ω) for $R > 20$ Ω

Continuity 7mA (max)

Measuring range (Ω): 0 ÷ 2000
 Resolution (Ω): 0.1, 1
 Accuracy: ± (5 % of reading + 0.03 Ω)

Voltage

Measuring range (V): 0 ÷ 600 AC / DC
 Resolution (V): 1
 Accuracy: ± (3 % of r. + 3 V)
 Nominal frequency range: DC, 45 ÷ 65 Hz

Frequency

Measuring range (V): 45.0 ÷ 65.0 Hz
 Resolution (V): 0.1

Ordering information

Standard Set

Part No. **MI 2123**



- Instrument SMARTEC Insulation/Continuity
- Universal cable 2 x 1,5 m
- Test tips - black, red
- Alligator clip (black)
- Instruction manual
- Product verification data

Standard Set

Part No. **MI 2123C**



- Instrument SMARTEC Insulation/Continuity
- Tip Commander 1.5 m
- Test tip, black
- Alligator clip (black)
- Instruction manual
- Product verification data

Optional accessories



- A 1020** - Carrying strap
- A 1016** - Test tip, red
- A 1020** - Small soft carrying bag
- A 1026** - Test lead 20 m, red
- A 1045** - Battery charger with a set of 4 pcs NiHM batteries
- A 1050** - PC SW "Smart Link" with interface cable
- A 1055** - Universal test cable, 2 x 1.5 m
- A 1064** - Alligator clip, red
- A 1171** - USB/RS 232 converter with 1 m fixed cable