

## Insulation / Continuity Tester



### Standards Applied

**Instrument operation:**  
IEC / EN 61557-1, IEC/EN 61557-2,  
IEC / EN 61557-4, IEC/EN 61557-10

**Electromagnetic compatibility:**  
**EMC:** IEC 61326 Class B

**Safety:**  
EN/IEC 61010-1 (instrument),  
EN/IEC 61010-2-31 (accessories)

### Technical Specification

#### Insulation resistance

0 M $\Omega$   $\pm$  2 G $\Omega$  (500 V, 1000V)  
0 M $\Omega$   $\pm$  200 M $\Omega$  (250V)  
UN: 250 V, 500 V, 1000 V  $\equiv$   
IN: >1 mA at 250 k $\Omega$  (250 V)  
500 k $\Omega$  (500 V)  
1 M $\Omega$  (1000 V)

Isc: <2 mA

#### Continuity

**R**  $\pm$ 200 mA:  
0  $\Omega$   $\pm$  2 k $\Omega$   
Uo.c.: 4 V  $\pm$  7 V  $\equiv$   
I (2  $\Omega$ ): >200 mA

#### Rcon:

0  $\Omega$   $\pm$  2 k $\Omega$   
Uo.c.: 4 V  $\pm$  7 V  $\equiv$   
Isc: <7 mA

#### Voltage / Frequency

U: 0 V  $\pm$  600 V TRMS  
f: 16 Hz  $\pm$  450 Hz or  $\equiv$

#### General

|                                      |  |
|--------------------------------------|--|
| Power supply                         | 6 V DC (4 $\times$ 1.5V alkaline battery IEC LR14) |
| Typical operating time               | >70 h  |
| Auto power off                       | yes, approximately 10 min. of no activity          |
| Display                              | custom LCD   |
| Protection classification            | Class II (double insulation)                       |
| Over-voltage category                | CAT III 300V                                       |
| Pollution degree                     | 2  |
| Protection degree                    | IP 40  |
| Working temp. Range                  | 0 $^{\circ}$ C $\pm$ 40 $^{\circ}$ C               |
| Dimensions (w $\times$ h $\times$ d) | 280 x 70 x 80 mm                                   |
| Weight (without access.)             | 490 g  |

### Insulation Resistance

- **Three different test voltages** (250, 500 and 1000 V) provide the tests required for all installations encountered.
- **Extremely wide range** of measured insulation resistance (**up to 2 G** ) enables periodic analysis of changes in insulation material.
- **Automatic discharge** of the equipment under test after completion of the test.

### Continuity

- 200 mA measurement with automatic polarity change.
- **Automatic compensation of test leads** (up to 5 ) eliminates lead resistance.
- **Continuous low current** resistance measurement for testing of electrical motors, inductive windings, transformers, etc.

### RMS Voltage and Frequency

- Warnings are given if hazardous voltages are detected.
- Auto power-off.

### Standard set

- Instrument GigaOhm 1 kV
- Measuring lead, 1.5 m black
- Measuring lead, 1.5 m red
- Test tip, black
- Test tip, red
- Carrying strap
- Instruction manual
- Declaration of conformity
- Product verification data

