



MRU-21

Indeks: WMGBMRU21

Earth Resistance Meter

CAT IV

300V

CAT III

600V



IP 54

Description

Possible measurements:

- earth resistance measurement with 3-pole method,
- measurement of continuity of equipotential bondings and protective conductors with auto-zero function - with current 200 mA,
- resistance measurement using 2-pole method.

Technical Specification

Measurement of earthing resistance

measurement range to IEC61557 - 5:

0,50 Ω ...1,99 k Ω for Un=50 V;

0,68 Ω ...1,99 k Ω for Un=25 V;

Range	Resolution	Accuracy
0,00...9,99 Ω	0,01 Ω	$\pm(2\% \text{ m.v.} + 3 \text{ digits})$
10,0...99,9 Ω	0,1 Ω	
100...999 Ω	1 Ω	

1,00k...1,99 k Ω 0,01 k Ω

- measurement current: under short circuit >20 mA,
- voltage on open terminals: selectable <25 V AC or <50 V AC,
- frequency of measurement current: 125 Hz

Measurement of interference voltage U_N (RMS)

Range	Resolution	Accuracy
0...100 V	1 V	$\pm(2\% \text{ m.v.} + 3 \text{ digits})$

- measurement for DC and AC 45...65 Hz

Measurement of resistance of auxiliary electrodes R_H i R_S

Range	Resolution	Accuracy
0...999 Ω	1 Ω	$\pm(5\% (R_S+R_E+R_H) + 3 \text{ digits})$
1,00k...9,99 k Ω	0,01 k Ω	
10,0k...50,0 k Ω	0,1 k Ω	

Measurement of continuity of equipotential bondings and protective conductors

measurement range to IEC61557 - 4: **0,13 Ω ...199 Ω**

Range	Resolution	Accuracy
0,00...9,99 Ω	0,01 Ω	$\pm(2\% \text{ m.v.} + 3 \text{ digits})$
10,0...99,9 Ω	0,1 Ω	
100...199 Ω	1 Ω	

- measuring method: technical 2-pole method,
- max. voltage on open terminals: 13 V,
- measurement current: under short circuit >200 mA,
- auto-zero function for measurement leads

Electric security:

- type of insulation: double, according to EN 61010 - 1 and IEC 61557
- measurement category: CAT IV 300 V acc. to EN 61010 - 1
- protection class acc. to EN 60529: IP54

Rated operational conditions:

- operation temperature: -10...+55°C
- storage temperature: -20...+70°C
- humidity: 20...80%

Other technical data:

- LCD display: segment, backlit
- interface: USB,
- number of measurements carried out of set of batteries: > 1000 (5 Ω , 2 meas./min.)
- warranty: 2 years
- dimensions: 288 x 223x75 mm
- weight: 1,4 kg