

EARTH RESISTANCE METER

MRU-20


IEC
61557
CAT IV
300V

IP 54

Possible measurements:

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

Standard accessories of meter MRU-20:

- | | | | |
|--|-----------------------|---|------------------|
| - Test lead on a reel with banana plugs; 30m; red | WAPRZ030REBBSZ | - Earth contact test probe (rod); 0,30m (2 pcs) | WASONG30 |
| - Test lead on a reel with banana plugs; 15m; blue | WAPRZ015BUBBSZ | - Carrying case | WAWALL1 |
| - Test lead with banana plug 2,2m; black | WAPRZ2X2BLBB | - Harness for carrying instrument | WAPOZSZE2 |
| - Test lead with banana plug; 1,2m; red | WAPRZ1X2REBB | - R6 batteries | |
| - Pin probe with banana connector- red | WASONREOGB1 | - Operating manual, | |
| - „Crocodile” clip K01; black | WAKROBL20K01 | - Calibration certificate. | |

Optional accessories od meter MRU-20:

- | | | | |
|---|-----------------------|--------------------|------------------|
| - Test lead on a reel with banana plugs; 25m; blue | WAPRZ025BUBBSZ | - Carrying case L3 | WAFUTL3 |
| - Test lead on a reel with banana plugs; 50m; yellow. | WAPRZ050YEBBSZ | - Cramp | WAZACIMA1 |
| - Test wire reel | WAPOZSZP1 | | |
| - Earth contact test probe (rod); 0,80m | WASONG80 | | |

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● **It allows to take:**

- earth resistance measurement using auxiliary probes with 3-pole method,
- resistance measurement using 2-pole method,
- measurement of continuity of equipotential bondings and protective conductors (meeting the requirements of IEC 61557-4) with auto-zero function – with current 200mA.

● **Additionally:**

- AUTO-OFF function after 5 minutes,
- indication of battery state.

Measurement of earthing resistance

measurement range to IEC61557-5: **0,50Ω...1,99kΩ for $U_n=50V$;**
0,68Ω...1,99kΩ for $U_n=25V$;

Range	Resolution	Accuracy
0,00...9,99Ω	0,01Ω	±(2% m.v. + 3 digits)
10,0...99,9Ω	0,1Ω	
100...999Ω	1Ω	
1,00k...1,99kΩ	0,01kΩ	

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

Measurement of resistance of auxiliary electrodes R_H i R_S

Range	Resolution	Accuracy
0...999Ω	1Ω	±(5% ($R_s+R_e+R_n$) + 3 digits)
1,00k...9,99kΩ	0,01kΩ	
10,0k...50,0kΩ	0,1kΩ	

Measurement of interference voltage U_N (RMS)

Range	Resolution	Accuracy
0...100V	1V	±(2% m.v. + 3 digits)

Measurement of continuity of equipotential bondings and protective conductors

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

Range	Resolution	Accuracy
0,00...9,99Ω	0,01Ω	±(2% m.v. + 3 digits)
10,0...99,9Ω	0,1Ω	
100...199Ω	1Ω	

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

Electric security:

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

- power supply: alkaline batteries or NiMH rechargeable batteries, size AA (8 pcs)
- LCD display segment, backlit
- weight with batteries approx. 1,3kg
- dimensions 260 x 190 x 60mm
- electromagnetic compatibility according to IEC 61000-6-3 and IEC 61000-6-2