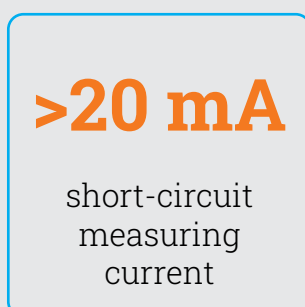


## Easy way to measure earthing and soil



### Earthing resistance measurements

- **3-pole and 4-wire method** – measurement of earthing systems using auxiliary probes
- **2-pole method**
- **Earth resistivity** – Wenner method

### Features

- Resistance of auxiliary electrodes  $R_H$  and  $R_S$
- Measurement of interference voltage to 100 V
- Indication of battery state
- Selection of maximum measuring voltage (25 V and 50 V)
- Auto-OFF function

### Overview

MRU-11 is a simple meter that allows you to measure grounding by the use of the technical method (3-pole and 4-wire) and soil resistivity by Wenner method. The instrument is easy to handle, resistive to interference, and highly accurate.

MRU-11 is a basic device that allows for checking the quality of the grounding system on the basis of the received measurement result. Its ergonomic shape, durable and firm housing, as well as big and clear display make this instrument ideal to use both in the field and most working environments.

The device is simple to operate and intuitive. It is the best choice for electrical installations contractors, technicians, and professionals dealing with grounding measurements.



## Technical specification

Measurement functions	Measurement range	Display range	Resolution	Accuracy ±(% m.v. + digits)
Interference voltage	0 V...100 V	0 V...100 V	1 V	±(10% m.v. + 1 digit)
<b>Earth resistance</b>				
2-pole method	0.00...9999 Ω	0.00...9999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
3-pole and 4-wire method	0.53...9999 Ω acc. to EN 61557-5	0.00...9999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
auxiliary electrodes resistance	0 Ω...19.9 kΩ	0 Ω...19.9 kΩ	from 1 Ω	±(5% m.v. + 8 digits)
Earth resistivity	0.0 Ωm...999 kΩm	0.0 Ωm...999 kΩm	from 0.1 Ωm	Depends on the accuracy of the $R_E$ 4p measurement, but not less than ±1 digit
<b>Safety and work conditions</b>				
Measuring category according to EN 61010				III 300 V
Ingress protection				IP67
Type of insulation according to EN 61010-1 and IEC 61557				double
Dimensions				221 x 102 x 62 mm 8.7" x 4.0" x 2.4"
Weight				ca. 660 g ca. 1.4 lbs
Operating temperature				-10...+50°C 14...122°F
Storage temperature				-20...+60°C -2...+140°F
Humidity				20...90%
Nominal temperature				23 ± 2°C 73.4°F ± 3.6°F
Reference humidity				40%...60%
<b>Other information</b>				
Quality standard – development, design and production				ISO 9001
The product meets the EMC (emission for industrial environment) requirements according to standards				EN 61326-1 EN 61326-2-2

## Standard accessories



**Crocodile clip, blue, 1 kV, 20 A**  
WAKROBU20K02



**Crocodile clip, black, 1 kV, 20 A**  
WAKROBL20K01



**4 x earth contact test probe (rod), 25 cm**  
WASONG25



**Test lead 15 m, blue (banana plugs, on H-frame reel)**  
WAPRZ015BUBBN



**Test lead 15 m, red (banana plugs, on H-frame reel)**  
WAPRZ015REBBN



**Test lead 30 m, yellow (banana plugs, on H-frame reel)**  
WAPRZ030YEBBN



**Test lead 2.2 m, blue, 1 kV (banana plugs)**  
WAPRZ2X2BUBB



**Test lead 2.2 m, black, 1 kV (banana plugs)**  
WAPRZ2X2BLBB



**4 x alkaline battery 1.5 V AA, LR6**



**M1 hanging straps**  
WAPOZSZE4



**M1 hanging hook straps**  
WAPOZUCH1



**M6 carrying case**  
WAFUTM6



**Factory calibration certificate**

## Optional accessories



**Earth contact test probe (rod), 30 cm**  
WASONG30



**Test lead 100 m, red, for MRU (banana plugs, on a reel)**  
WAPRZ100REBBSZ



**Test lead 200 m, yellow, for MRU (banana plugs, on a reel)**  
WAPRZ200YEBBSZ



**Earth contact test probe (rod), 80 cm**  
WASONG80V2



**Test lead 25 m, for MRU (banana plugs, on a reel), red**  
WAPRZ025REBBSZ



**Test lead 40 m / 50 m / 60 m / 80 m for MRU (banana plugs, on a reel), yellow**  
WAPRZ040YEBBSZ  
WAPRZ050YEBBSZ  
WAPRZ060YEBBSZ  
WAPRZ080YEBBSZ



**Cramp (banana plug)**  
WAZACIMA1



**L3 carrying case for 80 cm rods**  
WAFUTL3



**Calibration certificate with accreditation**