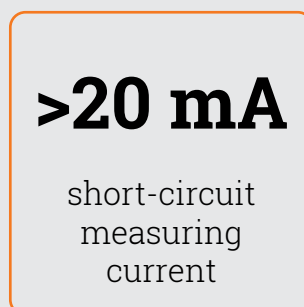


Easy way to measure earthing and soil



Earthing resistance measurements

- soil resistivity
- earthing resistance using 3- and 4-wire method with auxiliary electrodes
- earthing resistance using 2-wire 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- 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)
Earth resistance				
2-wire method	0.00...9999 Ω	0.00...9999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
3- 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
Safety and work conditions				
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
Weight				ca. 660 g
Operating temperature				-10...+50°C
Storage temperature				-20...+60°C
Humidity				20...90%
Nominal temperature				23 ± 2°C
Reference humidity				40%...60%
Altitude a.s.l.				≤2000 m
Other information				
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



Calibration certificate issued by an accredited laboratory

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



Warth contact test probe (rod), 80 cm
WASONG80



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



Test lead 50 m for MRU (banana plugs, on a reel), yellow
WAPRZ050YEBBSZ



Cramp (banana plug)
WAZACIMA1



L3 carrying case for 80 cm rods
WAFUTL3