



Universal earth tester

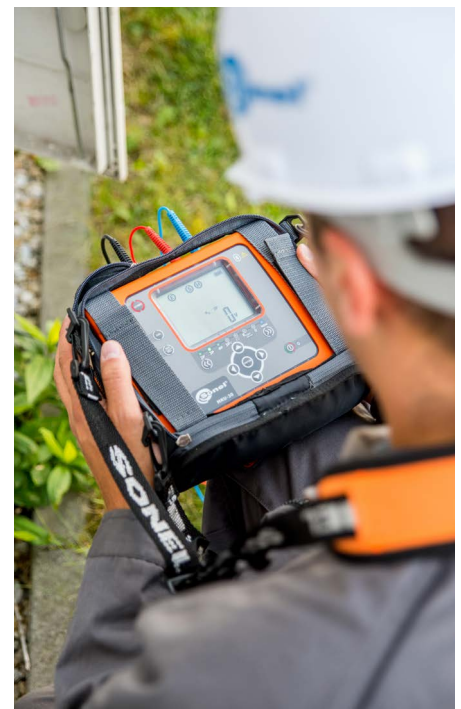


Measurement methods

- With auxiliary electrodes (3-lead and 4-lead)
- With auxiliary electrodes and clamp (for measurement of multiple earthing systems)
- With two clamps (for measuring multiple earthing without underground edge connections)
- Soil resistivity (Wenner method)
- Continuity of protective conductors and equipotential bonding - with 200 mA current - meeting the requirements of EN 61557-4

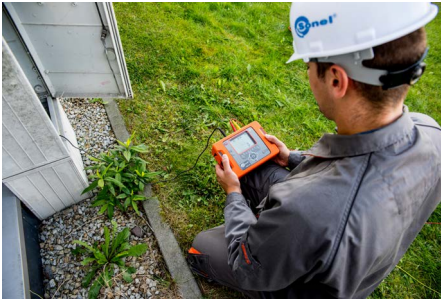
Features

- Measurement of auxiliary electrode resistances R_S and R_H
- Measurement of interference voltage
- Measurement in the presence of interference voltages in networks with frequencies of 50 Hz and 60 Hz
- Selection of maximum measurement voltage (25 V and 50 V)
- In ground resistivity measurements, distances between electrodes can be input in meters (m) or feet (ft)



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Application

The MRU-30 earth resistance meter is designed to measure single and multiple earthings using auxiliary electrodes and/or clamps. Moreover it is possible to measure ground resistivity (Wenner method) and verify the continuity of equipotential bondings and protective conductors.



Capabilities

The meter provides the ability to make grounding tests with all kinds of the technical method. High immunity to interference allows it to be used even in difficult conditions in circuits with interfering currents. Simple and intuitive operation makes the measurements easier and faster. The meter has internal memory. The measurement results can be transmitted to a computer for data processing and preparation of documentation from the grounding tests.

Durable and practical casing

Ergonomic, small and practical housing allows comfortable and easy operation. The meter is resistant to all weather conditions. IP65 ingress protection guarantees dustproof and resistance to water jets on each side. The battery is permanently built-in and can be charged from a PowerBank or car cigarette lighter.



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	±(5% m.v. + 2 digits)
Connection and equipotential bonding resistance	0.13 Ω...1999 Ω acc. to EN 61557-4	0.00 Ω...1999 Ω	from 0.01 Ω	±(2% m.v. + 3 digits)
Earth resistance				
2-wire method	0.00 Ω...9999 Ω	0.00 Ω...9999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
3- and 4-wire method	0.53 Ω...9999 Ω acc. to EN 61557-5	0.00 Ω...9999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
3-wire + clamp method	0.00 Ω...9999 Ω	0.00 Ω...9999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
two-clamp method	0.00 Ω...99.9 Ω	0.00 Ω...99.9 Ω	from 0.01 Ω	from ±(10% m.v. + 8 digits)
auxiliary electrodes resistance	0 Ω...19.9 kΩ	0 Ω...19.9 kΩ	from 1 Ω	±(5% (R _e +R _n +R _s) + 8 digits)
Earth resistivity	0.00 Ωm...999 kΩm	0.00 Ωm...999 kΩm	from 0.1 Ωm	Depends on the accuracy of the R _e 4p measurement, but not less than ±1 digit
Leakage current	0.0 mA...5.00 A	0.0 mA...5.00 A	from 0.1 mA	from ±(5% m.v. + 5 digits)
Safety and work conditions				
Measuring category according to EN 61010				III 300 V
Ingress protection				IP65
Type of insulation according to EN 61010-1 and IEC 61557				double
Dimensions				200 x 150 x 73 mm
Weight				ca. 1.14 kg
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
Memory and communication				
Memory of measurement results				990 results
Data transmission				USB 2.0
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



Test lead with banana plugs; 1 kV; 1.2 m; red

WAPRX1X2REBB



Test probe with banana socket; 1 kV; red

WASONREOGB1



2x earth contact pin probe (30 cm)

WASONG30



Meter power adapter (type Z7)

WAZASZ7



USB cable

WAPRXUSB



Earthing measurement test lead with banana plugs on reel; 25 m; red

WAPRX025REBBSZ



Black crocodile clip 1 kV 20 A

WAKROBL20K01



Clamp terminal with banana plug termination

WAZACIMA1



230 V power cord (IEC C7 plug)

WAPRXLAD230



Earthing measurement test lead with banana plugs on reel; 50 m; yellow

WAPRX050YEBBSZ



Test lead with banana plugs; 1 kV; 2.2 m; black

WAPRX2X2BLBB



M-9 carrying case

WAFUTM9



L-10 carrying case

WAFUTL10

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Optional accessories



Test lead 75 / 100 / 200 m red, for MRU (banana plugs, on a reel)

WAPRX075REBBSZ
WAPRX100REBBSZ
WAPRX200REBBSZ



Test lead 75 / 100 / 200 m blue, for MRU (banana plugs, on a reel)

WAPRX075BUBBSZ
WAPRX100BUBBSZ
WAPRX200BUBBSZ



Test lead 75 / 100 / 200 m yellow, for MRU (banana plugs, on a reel)

WAPRX075YEBBSZ
WAPRX100YEBBSZ
WAPRX200YEBBSZ



Test lead 30 m, red, for MRU (banana plugs, on a reel)

WAPRX030REBBSZ



Test lead 15 / 25 m blue, for MRU (on a reel)

WAPRX015BUBBSZ
WAPRX025BUBBSZ



Test wire reel

WAP0ZSZP1



Earth contact test probe (rod), 15 cm

WASONG15



Earth contact test probe (rod), 26 cm

WASONG26



Earth contact test probe (rod), 80 cm

WASONG80



Crocodile clip, 1 kV 20 A red/blue/yellow

WAKRORE20K02
WAKROBU20K02
WAKROYE20K02



Test lead 1.2 m CAT III/1000V CAT IV/600V black/blue/yellow

WAPRX1X2BLBB
WAPRX1X2BUBB
WAPRX1X2YEBB



Pin probe CAT III/1000V CAT IV/600V black/blue/yellow

WASONBLOGB1
WASONBUOGB1
WASONYEOGB1



N-1 transmitting clamp (Φ=52 mm)

WACEGN1BB



C-3 current clamp (Φ=52 mm)

WACEGC3OKR



Battery charging cable for 12 V car sockets

WAPRXLAD12SAM



Double-wire test lead 2 m, for N-1 clamps (banana plugs)

WAPRX002DZBB



L3 carrying case for 80 cm rods

WAFUTL3