



IP67

CAT III

300 V

## Basic grounding measurements under all conditions

### Earthing resistance measurements

- earthing resistance using 3-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-10 is a simple meter that allows you to measure grounding by the use of the technical method and to measure grounding resistance by the use of the 2-pole method. The instrument is easy to handle, resistive to interference, and highly accurate.

MRU-10 is a basic device that allows 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)
<b>Interference voltage</b>	0 V...100 V	0 V...100 V	1 V	±(10% m.v. + 1 digit)
<b>Earth resistance</b>				
2-wire method	0.00...9999 Ω	0.00...9999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
3-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% + 8 digits)
<b>Safety and work conditions</b>				
<b>Measuring category according to EN 61010</b>			III 300 V	
<b>Ingress protection</b>			IP67	
<b>Type of insulation according to EN 61010-1 and IEC 61557</b>			double	
<b>Dimensions</b>			221 x 102 x 62 mm	
<b>Weight</b>			ca. 660 g	
<b>Operating temperature</b>			-10...+50°C	
<b>Storage temperature</b>			-20...+60°C	
<b>Humidity</b>			20...90%	
<b>Nominal temperature</b>			23 ± 2°C	
<b>Reference humidity</b>			40%...60%	
<b>Altitude a.s.l.</b>			≤2000 m	
<b>Other information</b>				
<b>Quality standard – development, design and production</b>			ISO 9001	
<b>The product meets the EMC (emission for industrial environment) requirements according to standards</b>			EN 61326-1 EN 61326-2-2	

## Standard accessories



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

WAPRZ2X2BLBB



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

WAPRZ015REBBN



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

WAPRZ030YEBBN



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

WAKROBL20K01



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



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

WASONG25



**M1 hanging straps**

WAPOZSZE4

**M1 hanging hook straps**

WAPOZUCH1



**M6 carrying case**

WAFUTM6



**Calibration certificate**

## Optional accessories



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

WAKRORE20K02  
WAKROBU20K02  
WAKROYE20K02



**Test lead 1.2 m (banana plugs) black / blue / yellow**

WAPRZ1X2BLBB  
WAPRZ1X2BUBB  
WAPRZ1X2YEBB



**Pin probe 1 kV (banana socket) black / blue / yellow**

WASONBUOGB1  
WASONBLOGB1  
WASONYEOGB1



**Test lead 25 / 30 m, for MRU (banana plugs, on a reel), red**

WAPRZ025REBBSZ  
WAPRZ030REBBSZ



**Test lead 15 m, for MRU (banana plugs, on a reel), blue**

WAPRZ015BUBBSZ



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

WAPRZ050YEBBSZ



**Test lead on a reel red 75 m / 100 m / 200 m**

WAPRZ075REBBSZ  
WAPRZ100REBBSZ  
WAPRZ200REBBSZ



**Test lead on a reel blue 75 m / 100 m / 200 m**

WAPRZ075BUBBSZ  
WAPRZ100BUBBSZ  
WAPRZ200BUBBSZ



**Test lead on a reel yellow 75 m / 100 m / 200 m**

WAPRZ075YEBBSZ  
WAPRZ100YEBBSZ  
WAPRZ200YEBBSZ



**Cramp with banana socket**

WAZACIMA1



**Earth contact test probe 30 cm / 80 cm**

WASONG30  
WASONG80



**L3 carrying case for 80 cm rods**

WAFUTL3



**Test wire reel**

WAPOZSZP1



**Calibration certificate issued by an accredited laboratory**