



index. TimeBiline





# Basic grounding measurements under all conditions

## **Earthing resistance measurements**

- 3-pole method measurement of earthing systems using auxiliary probes
- 2-pole method

#### **Features**

- Resistance of auxiliary electrodes R<sub>u</sub> and R<sub>e</sub>
- 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.





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Technical specification	1 <u> </u>			
Measurement functions	Measurement range	Display range	Resolution	Accuracy ±(% m.v. + digits)
Interference voltage	0 V100 V	0 V100 V	1 V	±(10% m.v. + 1 digit)
Earth resistance				
2-pole method	0.009999 Ω	0.009999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
3-pole method	0.539999 Ω acc. to EN 61557-5	0.009999 Ω	from 0.01 Ω	from ±(3% m.v. + 3 digits)
auxiliary electrodes resistance	0 Ω19.9 kΩ	0 Ω19.9 kΩ	from 1 Ω	±(5% + 8 digits)
Safety and work conditions				
Measuring category according to EN 61010		III 300 V		
ngress 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		
		14122°F		
Storage temperature		-20+60°C		
<u> </u>		-2+140°F		
Humidity		2090%		
Nominal temperature		23 ± 2°C		
reminal composition		73.4°F ± 3.6°F		
Reference humidity		40%60%		
Other information				
Quality standard – development, design and production		ISO 9001		
The product meets the EMC (emission for industrial environment)		EN 61326-1		
requirements according to standards			EN 61326	5-2-2

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### **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 without accreditation

## **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 WAPRZ1X2VERR



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



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