

## MEASURING EQUIPMENT

### Earth resistance tester

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German Cathodic Protection



## UNITEST TELARIS® Earth

### Key Functions

- Earth resistance measurement
- Specific earth resistance measurement

### General Information

- The integrated constant current measurement principle allows the application in sandy as well in rocky environments
- Monitoring and display of auxiliary earth and probe resistances
- Displays of the actual test current
- Automatic and manual and frequency selection for noise reduction
- Test voltage preselection
- Clear and large LCD providing the user with an optimum visual indication of both test values and limits
- Auto power off

### Special Features

- Earth resistance measurement 2/3 and 4-pole
- Specific earth resistance measurement in compliance with the Wenner principle

### Scope of supply

- 1 pc UNITEST TELARIS Earth
- 2 pc Test leads
- 2 pc Crocodile clamps
- 1 pc Protective Holster
- 1 pc Carrying Case
- 6 pc Batteries 1.5 V, IEC LR6
- 1 pc Instruction Manual

### Accessories

Professional Carrying Case, Cat. No. 1229

Earth Accessory-Set, Cat. No. 1189

### Order information

Description	Cat. No.
UNITEST TELARIS Earth	<b>8986</b>
Professional Carrying Case	<b>1229</b>
Earth Accessory-Set	<b>1189</b>



### Technical data

Display	3 Digit; LCD; 1999 Digits
Duration of measurement	3 - 5 s
Measurement principle	Current-Voltage measurement
Measurement voltage	25/50 V selection
Current/power consumption	approx. 10 mA/0.1 W max. 500 mA briefly, during measurement
Measurement current	max. 12 mA
Frequency (f1/f2)	127 Hz / 140 Hz, selectable
Measurement method	2 pole / 3 pole / 4 pole
Earth resistance RE	0.05 - 2.00 Ω ±(4% + 0.1 Ω)
Earth resistance RE	2 - 1999.9 Ω ±(4% + 2 Digit)
Earth resistance RH, RS	0.1 - 50 kΩ ±(10% + 3 Digit)
I M	0.1 - 13 mA ±(10% + 3 Digit)
<b>Nominal use range:</b>	
Correct polarity	for 3/4 pole measurements
Noise voltage	0...5 V, max. 10% of meas. voltage
aux. earth (RH), probe res. (RS)	max. 50 kΩ
Ratio RH/RE	max. 1000/1
Ratio RS/RE	max. 10000/1
Earth resistance (RE)	max. 2 kΩ
<b>Reference range:</b>	
Correct polarity	for 3/4 pole measurements
Noise voltage	0 V
aux. earth (RH), probe res. (RS)	max. 2 kΩ
Auto power off	after approx. 5 min
Power supply	6 x 1.5 V, IEC LR6 (Mignon/Size AA)
Low Bat at	6.6 V ± 5% (OFF at 6.1 V ± 5%)
Battery life	approx. 1 year for normal use
Dimension (L x W x D)	235 x 105 x 68 mm
Weight	approx. 640 g (incl. 6 batteries)
<b>Environmental conditions:</b>	
Temperature range / humidity	0°C...40°C / max. 80% at -10...40°C
Ref. temperature range	+17°C...27°C
Storage temperature range	-20°C...+60°C
Casing	Protection class II
Built in accordance with	IEC 61557-5, DIN VDE 0413-5
Overvoltage category	CAT III / 300 V against ground
Pollution degree	2
Protection class	II
Protection degree	IP 50
Height above MSL	up to 2000 m