

Metriso[®] 3000 – TEST-KIT (Part No.: 7100.3000.MK)

- Suitable for resistance to ground and point-to-point resistance measurements according to IEC 61340-4-1 Ed. 2.0 and IEC 61340-2-3
- Suitable for measuring the electrical resistance of footwear and flooring in combination with a person according to IEC 61340-4-5.
- Integrated data logger for 50.000 test values and USB communication port for data transmission
- Clip-on humidity and temperature sensors
- Report generating software "ETS" for data acquisition, recording and managing. A complete test report can be generated and archived.
- Menu driven measurement with ESD test point selection and automatic limit value allocation.
- A barcode scanner can be used to identify test points before testing
- Low ohmic measurement range 1Ω - 10kΩ to measure the resistance of grounded objects
- Built-in 10 MΩ test resistor to check the instrument before use
- Special guard socket reduces distortion at high value resistance measurements
- Includes two Probes Model 850 according to IEC 61340-4-1 Ed. 2.0 / IEC 61340-2-3 and a handheld probe according to IEC 61340-4-5



Clip-on humidity and temperature sensor



Probe Model 850



Probe Model 45

Technical Information

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Part No.: 7100.3000.MK



◆ Untere Gießwiesen 21 ◆ 78247 Hilzingen ◆ Tel.: +49-7731-86880 ◆ Fax: +49-7731-868830

Technical data:

Test voltage:	DC 10V, 100V, 500V
Test range	
Resistance:	1Ω to 1,2TΩ
Temperature:	-10°C to +70°C
Humidity:	10% to 90%
Operation:	Battery operated or with rechargeable batteries
Probes:	2 x Model 850 1 x Handheld probe Model 45
Size:	225 x 130 x 140 mm (WxHxD)
Weight:	1,4 kg

Supplied with:

- Digital high resistance tester Metriso 2000
- USB cable
- Software "ETC" on CD-ROM
- Humidity and temperature sensor
- 2 Probes Model 850 acc. to IEC 61340-4-1 /2-3
- 1 Handheld probe Model 45 acc. to IEC 61340-4-5
- Connecting cables
- Conductive carrying case
- User's Manual in German / English / French

Technical specifications

Messgröße	U _M	Bereich	Messbereich	Auflösung	Eigenunsicherheit	Betriebsmessunsicherheit	Überlastbarkeit
R _{ESD}	10 V 100 V 500 V	100 k	1,0 kΩ ... 99,9 kΩ	0,1 k	±(5% v.M. + 3 D)	±(7% v.M. + 3 D)	500 V AC/DC eff
		100 k	10,0 kΩ ... 99,9 kΩ	0,1 k	±(5% v.M. + 3 D)	±(7% v.M. + 3 D)	
		1 M	100 kΩ ... 999 kΩ	1 k	±(5% v.M. + 3 D)	±(7% v.M. + 3 D)	
		10 M	1,00 MΩ ... 9,99 MΩ	10 k	±(5% v.M. + 3 D)	±(7% v.M. + 3 D)	
		100 M	10,0 MΩ ... 99,9 MΩ	100 k	±(5% v.M. + 3 D)	±(7% v.M. + 3 D)	
		1 G	100 MΩ ... 999 MΩ	1 M	±(5% v.M. + 3 D)	±(7% v.M. + 3 D)	
		10 G	1,00 GΩ ... 9,99 GΩ	10 M	±(5% v.M. + 3 D)	±(10% v.M. + 3 D)	
		100 G	10,0 GΩ ... 99,9 GΩ	100 M	±(8% v.M. + 3 D) ¹⁾	±(10% v.M. + 3 D) ¹⁾	
		1 T	100 GΩ ... 999 GΩ	1 G	±(10% v.M. + 5 D) ¹⁾	±(20% v.M. + 20 D) ^{1) 2)}	
U AC/DC		100 V	10,0 V ... 99,9 V	0,1 V	±(2,5% v.M. + 3 D)	±(5% v.M. + 3 D)	500 V AC/DC eff
		500 V	100 V ... 499 V	1 V			
R	Anzeigebereich ab 01,0 Ω *	1 Ω	10,0 ... 99,9 Ω	0,1 Ω	±(2,5% v.M. + 3 D)	±(5% v.M. + 3 D)	500 V AC/DC eff
		1 kΩ	100 ... 999 Ω	1 Ω			
		10 kΩ	1,00 ... 9,99 kΩ	10 Ω			

Power supply, battery life expectancy:

The instrument is supplied including the batteries (8 x 1,5 V mignon cells)

Battery life is about 3000 measurements at R_{ESD} with one set of rechargeable batteries.

(With 5 sec. from one measurement until automatic shutdown of the measuring procedure)

- ▶ 1 year limited warranty
- ▶ Recommended calibration interval: 2 years

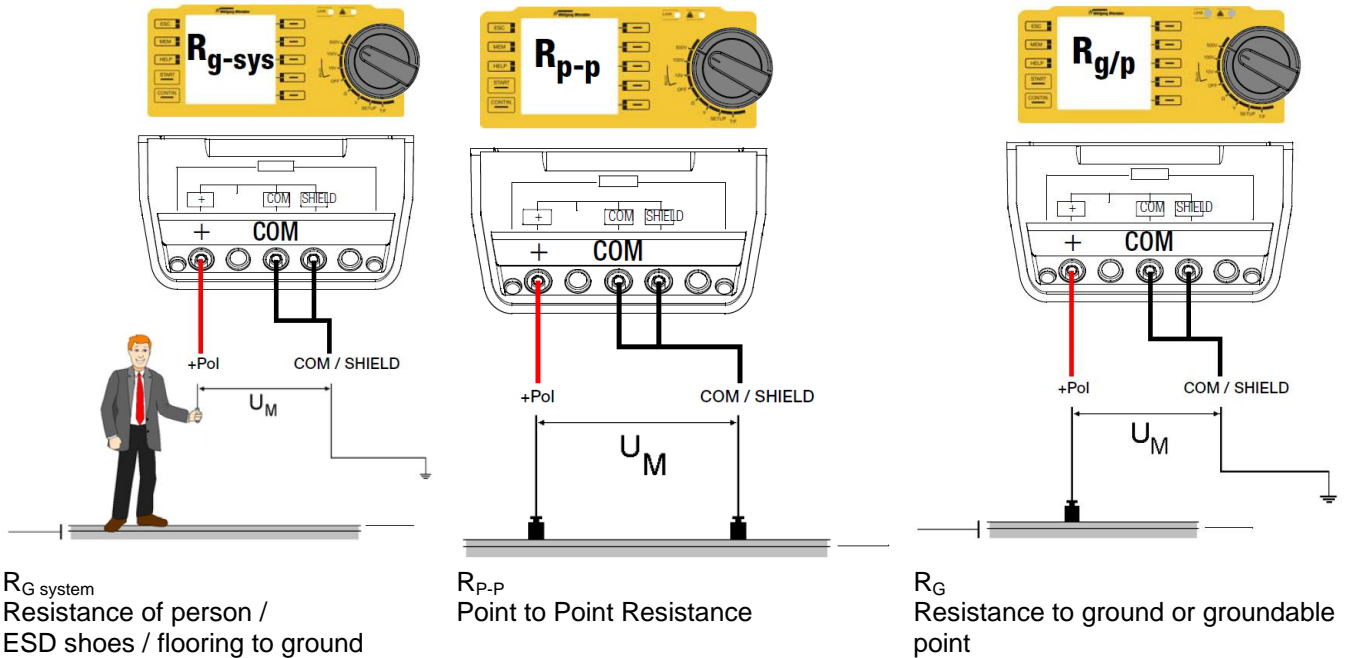
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Possible measurements with the MetrISO 3000 Test-Kit



Accessories (optional):

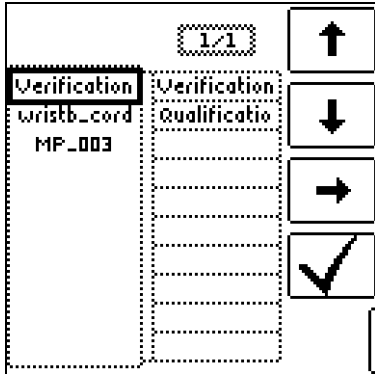


Part No.
7100.3000.SC
Barcode Scanner



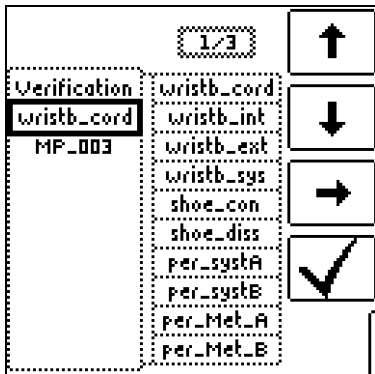
Part No.
7100.2000.TR50
50m Cable reel with unroll handle for floor measurement

Menu driven Measurement



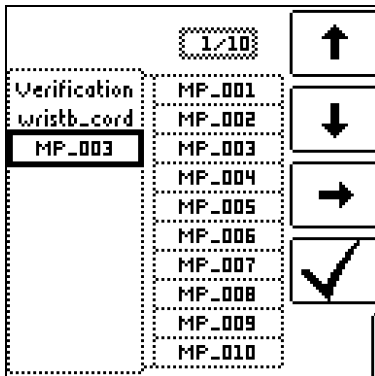
1. Measurement type selection

Select *Qualification* or *Verification* for the ESD control element



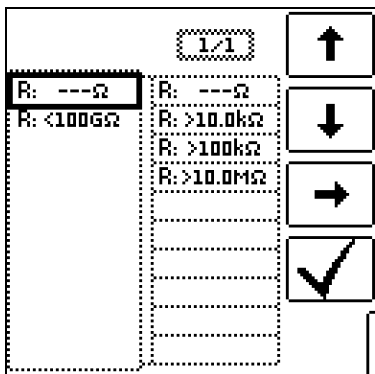
2. ESD control element selection

Example: Wrist strap.
The upper limits are already predefined in the instrument.



3. Number of measurements

Enter the amount of measurements.



4. Lower Limit

If required, a *lower* limit value can be entered.