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Part No.: 7100.3000.MK



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

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 "ETC" 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 $10k\Omega$ to measure the resistance of grounded objects
- Built-in 10 $M\Omega$ 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





Probe Model 850

Probe Model 45

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Technical data:

Test voltage: DC 10V, 100V, 500V

Test range

Resistance: 1Ω to 1,2T Ω 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 3000
- 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

Meas. Qty.		U	M ²		Range	Measuring Range	Reso- lution	Intrinsic Error ¹	Measuring Uncertainty	Overload Capacity	
	m				10 kΩ	1.0 kΩ 9.99 kΩ	0.01 k	±(5% rdg. + 10 d)	±(7% rdg. + 10d)		
	10 V	>		100 kΩ	10.0 kΩ 99.9 kΩ	0.1 k	±(5% rdg. + 3 d) ⁶	±(7% rdg. + 3 d)			
	_				1 MΩ ⁴	100 kΩ 999 kΩ	1 k	±(5% rdg. + 3 d)	±(7% rdg. + 3 d)		
					10 MΩ	1.00 MΩ 9.99 MΩ	10 k	±(5% rdg. + 3 d)	±(7% rdg. + 3 d)		
ResD		100 V	500 V		100 MΩ	10.0 MΩ 99.9 MΩ	100 k	±(5% rdg. + 3 d)	±(7% rdg. + 3 d)	500 V AC/DC TRMS	
		3	3		1 GΩ	100 MΩ 999 MΩ	1 M	±(5% rdg. + 3 d)	±(7% rdg. + 3 d)		
					10 GΩ	1.00 GΩ 9.99 GΩ	10 M	±(5% rdg. + 3 d)	±(10% rdg. + 3 d)		
					100 GΩ	10.0 GΩ 99.9 GΩ	100 M	±(8% rdg. + 3 d)	±(10% rdg. + 3 d)		
					1 ΤΩ	100 GΩ 999 GΩ	1 G	±(25% rdg. + 5 d)	±(50% rdg. + 20 d)		
U					100 V	10.0 V 99.9 V	0.1 V	±(2.5% rdg, + 3 d)	±(5% rdg. + 3 d)	500 V AC/DC TRMS	
AC/DC					500 V	100 V 499 V	1 7	±(2.5% rug. + 5 u)	±(5 % luy. + 5 u)	300 V AC/DC I HIVIS	
R	Display range as of 01.0 Ω			,	100 Ω	1.0 99.9 Ω	0.1 Ω		±(5% rdg. + 3 d)	500 V AC/DC TRMS	
				OT]	1 kΩ	100 999 Ω	1Ω	\pm (2.5% rdg. + 3 d)			
		01.			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)

Product video link:

http://www.warmbier.com/en/metriso3000_mov1.htm
Short version:



http://www.warmbier.com/en/metriso3000_mov2.htm

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

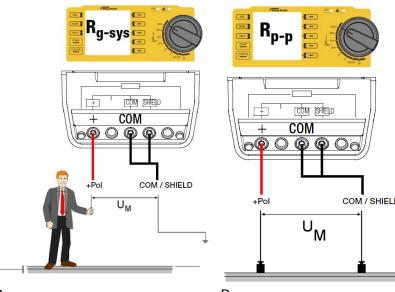
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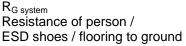
Part No.: 7100.3000.MK

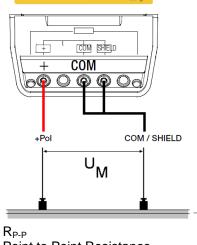


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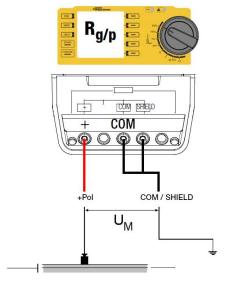
Possible measurements with the Metriso 3000 Test-Kit







Point to Point Resistance



Resistance to ground or groundable point

Accessories (optional):



Part No. 7100.3000.SC.2D 1D/2D Barcode Scanner



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

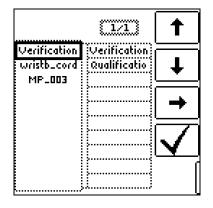
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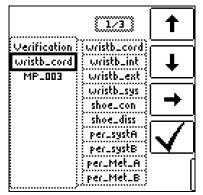
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Menu driven Measurement



1. Measurement type selection

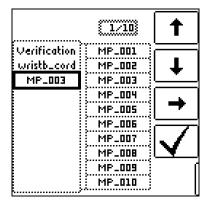
Select Qualification or Verification for the ESD control element



2. ESD control element selection

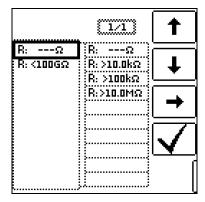
Example: Wrist strap.

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.

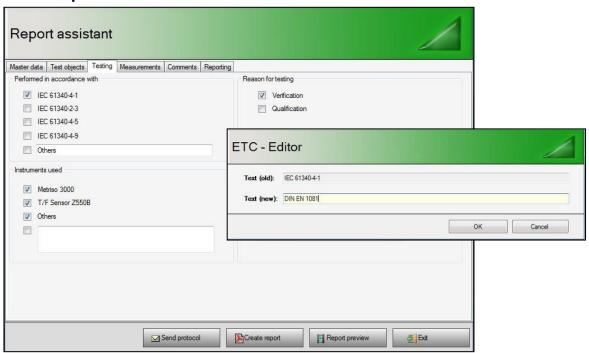
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ETC - Report Assistant



Wolfgang Warmb Systeme gegen Elektrost			Report 201309:	no. 25074550	30 43	Test report						
Master data												
Customer no.	55733			Date of measureme	ent 25.09.2013							
Customer Fa. Musterr Untere Gies 78247 Hilzi Representative Herr Max M		termann Elektronik AG		Order no.	201309250745	550						
				Contractor	Wolfgang War	Wolfgang Warmbier GmbH und Co. Kg						
				Tester		Rainer Pfeifle						
Test objects												
Test object/-location	ESD Equ	uipment	nent Object description New ESD-Test-Area- Hall AB13									
			E0000173 backrest upholster									
		Control item	MP	Measured value		Passed	Comment					
Testing		chair Rgp	MP_001	34,1 MOhm 100 V	< 10 GOhm	Yes	measure to the metal pla					
Beginning of testing		07.		Ε0	000175 backres	t aball						
Performed in accorda		E Control item	MP	Measured value		Passed Comment						
Instruments used		Me chair Rgp	MP_001	42,3 MOhm 100 V	< 10 GOhm	Yes	measure to the metal pla					
			E0000176 seat upholstery									
		Control item	MP	Measured value	Limit values	Passed	Comment					
		chair Rgp	MP_001	40,3 MOhm 100 V	< 10 GOhm	Yes	measure to the metal pla					
		chair Rgp	MP_002	41,6 MOhm 100 V	< 10 GOhm	Yes	see above					
		chair Rgp	MP_003	221 kOhm 9,62 V	< 10 GOhm	Yes	see above					
		chair Rgp	MP_004	348 kOhm 9,67 V	< 10 GOhm	Yes	see above					
		chair Rgp	MP_005	38,1 MOhm 100 V	< 10 GOhm	Yes	see above					