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Part No.: 7100.3000.MK



♦ Untere Gießwiesen 21 ♦ 78247 Hilzingen ♦ Tel.: +49-7731-86880 ♦ info@warmbier.com

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
- Display language changeable to German / English / French / Spanish
- 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 Ω test resistor to check the instrument before use
- 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

We believe all the information in these pages including technical data to be reliable. However we make no warranties expressed or implied and assume no liability regarding any use of this information.

Handheld 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

<u>Size:</u> 225 x 130 x 140 mm (WxHxD)

Weight (complete kit): 9 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		
R _{ESD}	m				10 kΩ	1.0 kΩ 9.99 kΩ	0.01 k	\pm (5% rdg. + 10 d)	±(7% rdg. + 10d)		
	10 V				100 kΩ	10.0 kΩ 99.9 kΩ	0.1 k	\pm (5% rdg. + 3 d) ⁵	±(7% rdg. + 3 d)		
		100 V		v	1 M Ω 4	100 kΩ 999 kΩ	1 k	\pm (5% rdg. + 3 d)	±(7% rdg. + 3 d)		
					$10\mathrm{M}\Omega$	1.00 MΩ 9.99 MΩ	10 k	\pm (5% rdg. + 3 d)	\pm (7% rdg. + 3 d)		
			500 V		100 MΩ	MΩ 10.0 MΩ 99.9 MΩ 100 k \pm (5% rdg		±(5% rdg. + 3 d)	±(7% rdg. + 3 d)	500 V AC/DC TRMS	
			3		1 GΩ	100 MΩ 999 MΩ	1 M	\pm (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	\pm (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 V	±(2.5 % lug. + 5 u)	±(3 % rug. + 3 u)	300 V AC/DC THIVIS	
	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	
R) TC	1 kΩ	100 999 Ω	1Ω	\pm (2.5% rdg. + 3 d)			
					10 kΩ	1.00 9.99 kΩ	10 Ω				

Power supply:

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

Product video link:

http://www.warmbier.com/videos/



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

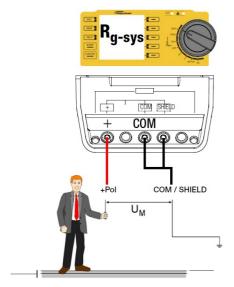
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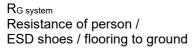
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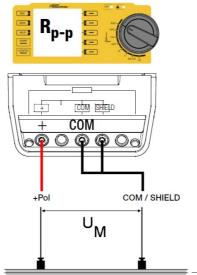


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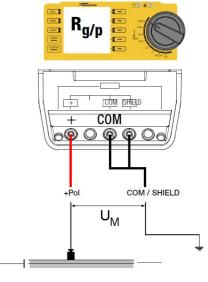
Possible measurements with the Metriso 3000 Test-Kit







R_{P-P}
Point to Point Resistance



R_G
Resistance to ground or groundable point

Accessories (optional):



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



Part No. 7100.3000.Z502H Battery-Pack Metriso3000 8 LSD-NiMH rechargeable



Part No.7100.2000.TR5050m Cable reel with unroll handle for floor measurement



Part No. 7100.3000.Z502R Charger for battery pack Metriso3000 (EU/US/UK)

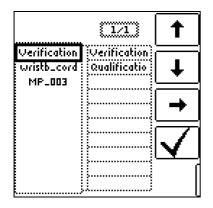
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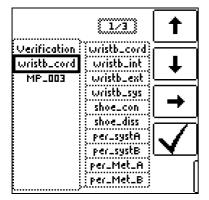
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Menu driven Measurement



1. Measurement type selection

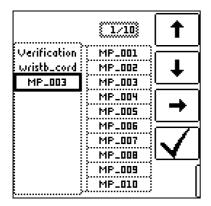
Select Qualification or Verification for the ESD control element



2. ESD control element selection

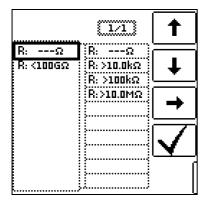
Example: Wrist strap.

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.

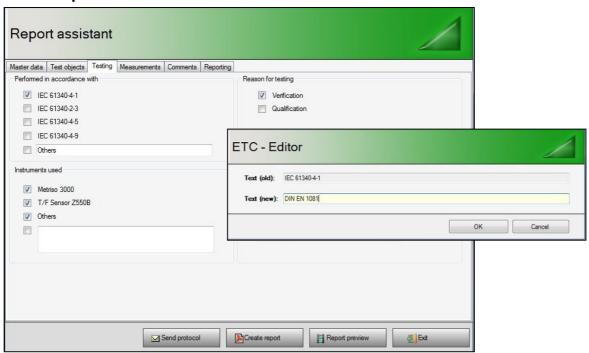
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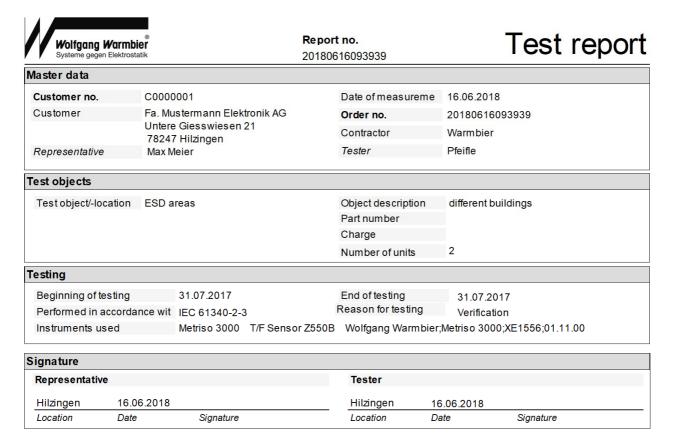
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ETC - Report Assistant





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Measurements					
Building				Т	н
B0000002 Building_A	34	24.1 °C	60.3 %		
		E0000	0005 ESD Chair 23		
Measurement type	Control item	MP	Measured value	Limit values	Passed
RESD	chair Rg	MP_001	429 MOhm 98.7 V	< 1 GOhm	Yes
RESD	chair Rg	MP_002	245 MOhm 98.7 V	< 1 GOhm	Yes
RESD	chair Rg	MP_003	355 MOhm 98.7 V	< 1 GOhm	Yes
		E0000	0006 ESD Chair 34		
Measurement type	Control item	MP	Measured value	Limit values	Passed
RESD	chair Rg	MP_001	85.2 MOhm 98.7 V	< 1 GOhm	Yes
RESD	chair Rg	MP_002	78.2 MOhm 98.7 V	< 1 GOhm	Yes
RESD	chair Rg	MP_003	76.2 MOhm 98.7 V	< 1 GOhm	Yes
		E0000	0007 ESD Chair 54		
Measurement type	Control item	MP	Measured value	Limit values	Passed
RESD	chair Rg	MP_001	5.3 GOhm 98.7 V	< 1 GOhm	No
RESD	chair Rg	MP_002	3.39 GOhm 98.7 V	< 1 GOhm	No
RESD	chair Rg	MP_003	4.71 GOhm 98.7 V	< 1 GOhm	No