

Metriso 3000

(Part No.: 7100.3000.G)

- 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
- 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 $10\text{ M}\Omega$ test resistor to check the instrument before usage



Technical Information

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

Technical data:

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

Supplied with:

- Digital high resistance tester Metriso 3000
- USB cable
- Software "ETC" on CD-ROM
- Connecting cables
- User's manual in German / English / French

Technical specifications

Meas. Qty.	U _M ²	Range	Measuring Range	Resolution	Intrinsic Error ¹	Measuring Uncertainty	Overload Capacity
R _{ESD}	10 V ³ 100 V 500 V 3 3	10 kΩ	1.0 kΩ ... 9.99 kΩ	0.01 k	±(5% rdg. + 10 d)	±(7% rdg. + 10d)	500 V AC/DC TRMS
		100 kΩ	10.0 kΩ ... 99.9 kΩ	0.1 k	±(5% rdg. + 3 d) ⁵	±(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)	
		100 MΩ	10.0 MΩ ... 99.9 MΩ	100 k	±(5% rdg. + 3 d)	±(7% rdg. + 3 d)	
		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 TΩ	100 GΩ ... 999 GΩ	1 G	±(25% rdg. + 5 d)	±(50% rdg. + 20 d)	
U AC/DC		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
		500 V	100 V ... 499 V	1 V			
R	Display range as of 01.0 Ω	100 Ω	1.0 ... 99.9 Ω	0.1 Ω	±(2.5% rdg. + 3 d)	±(5% rdg. + 3 d)	500 V AC/DC TRMS
		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)

Product video link:

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



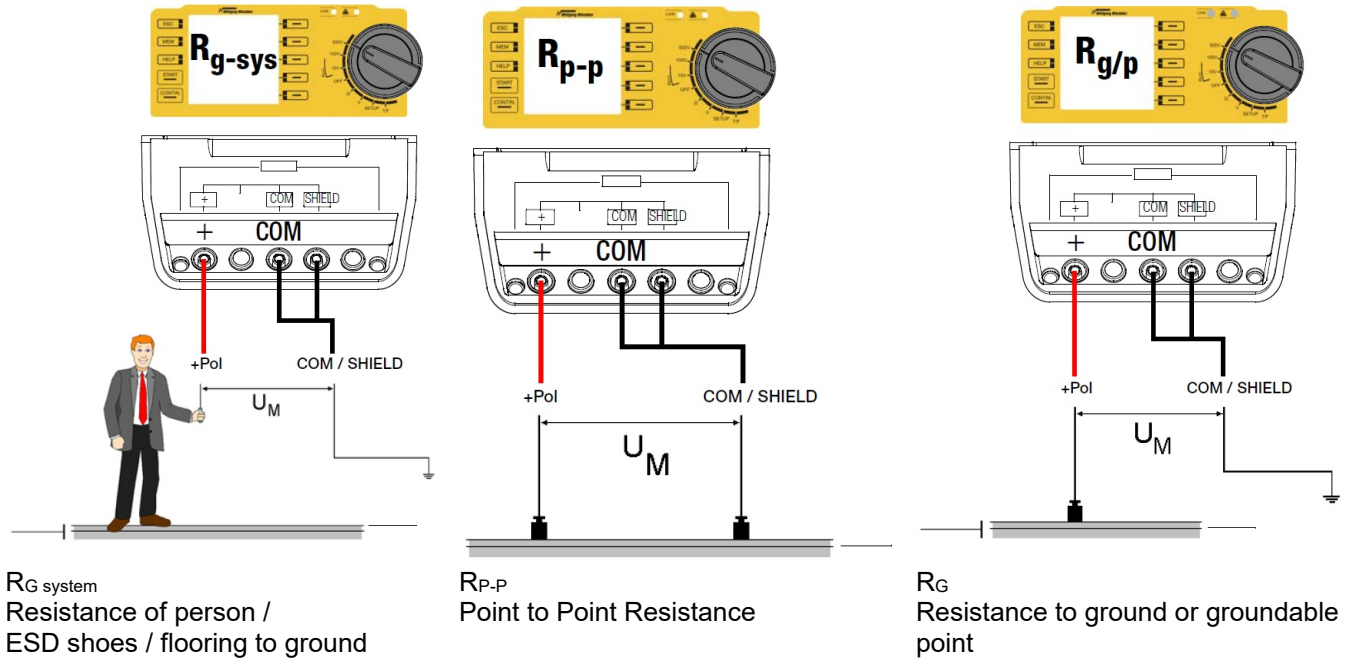
▶ 1 year limited warranty

▶ Recommended calibration interval: 2 years

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.

V0618

Possible measurements with the MetrISO 3000 Test-Kit



Accessories (optional):



Part No.
7100.3000.TF
Temperature/humidity sensor



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



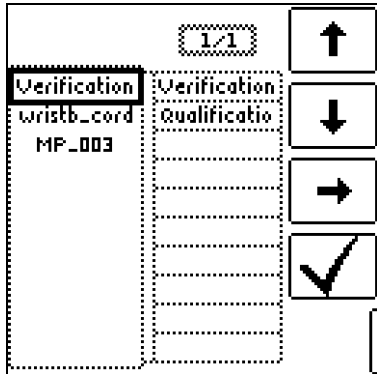
Part No.
7100.3000.Z502H
Battery-Pack Metriso3000
8 LSD-NiMH rechargeable



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

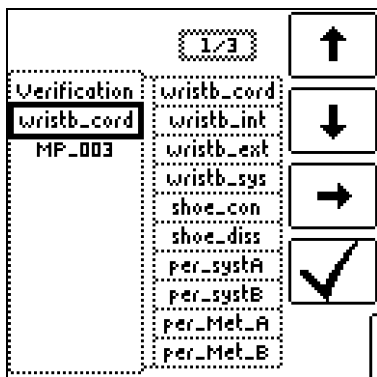


Menu driven Measurement



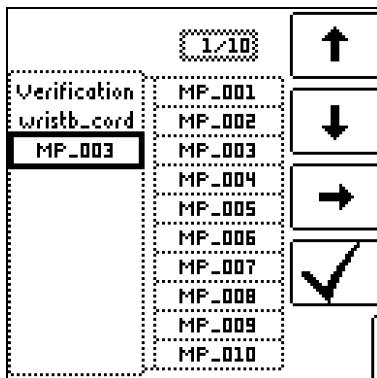
1. Measurement type selection

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



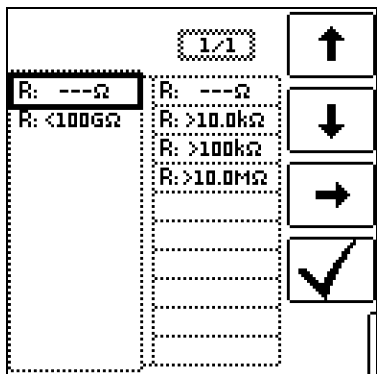
2. ESD control element selection

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.



Wolfgang Warmbier
Systeme gegen Elektrostatik

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ETC - Report Assistant



Report no.
20180616093939

Test report

Master data			
Customer no.	C0000001	Date of measureme	16.06.2018
Customer	Fa. Mustermann Elektronik AG Untere Giesswiesen 21 78247 Hilzingen	Order no.	20180616093939
Representative	Max Meier	Contractor	Warmbier
		Tester	Pfeifle
Test objects			
Test object/-location	ESD areas	Object description	different buildings
		Part number	
		Charge	
		Number of units	2
Testing			
Beginning of testing	31.07.2017	End of testing	31.07.2017
Performed in accordance wit	IEC 61340-2-3	Reason for testing	Verification
Instruments used	Metriso 3000 T/F Sensor Z550B	Wolfgang Warmbier;Metriso 3000;XE1556;01.11.00	
Signature			
Representative		Tester	
Hilzingen	16.06.2018	Hilzingen	16.06.2018
<i>Location</i>	<i>Date</i>	<i>Location</i>	<i>Date</i>
	<i>Signature</i>		<i>Signature</i>

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Measurements					
Building			T	H	
B0000002 Building_A34			24.1 °C	60.3 %	
E0000005 ESD Chair 23					
Measurement type	Control item	MP	Measured value	Limit values	Passed
RES D	chair Rg	MP_001	429 MOhm 98.7 V	< 1 GOhm	Yes
RES D	chair Rg	MP_002	245 MOhm 98.7 V	< 1 GOhm	Yes
RES D	chair Rg	MP_003	355 MOhm 98.7 V	< 1 GOhm	Yes
E0000006 ESD Chair 34					
Measurement type	Control item	MP	Measured value	Limit values	Passed
RES D	chair Rg	MP_001	85.2 MOhm 98.7 V	< 1 GOhm	Yes
RES D	chair Rg	MP_002	78.2 MOhm 98.7 V	< 1 GOhm	Yes
RES D	chair Rg	MP_003	76.2 MOhm 98.7 V	< 1 GOhm	Yes
E0000007 ESD Chair 54					
Measurement type	Control item	MP	Measured value	Limit values	Passed
RES D	chair Rg	MP_001	5.3 GOhm 98.7 V	< 1 GOhm	No
RES D	chair Rg	MP_002	3.39 GOhm 98.7 V	< 1 GOhm	No
RES D	chair Rg	MP_003	4.71 GOhm 98.7 V	< 1 GOhm	No