

# ISO-Kalibrator 1 Calibration Tester for Insulation Meters and Low-ohmic Measuring Instruments

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Adapter for the fast and rational testing of the accuracy of measuring instruments for insulation resistances and low-ohmic resistances.

• Testing range: 100 k $\Omega$  ... 100 M $\Omega$ 



### Application

Using the tester ISO-Kalibrator 1, you can quickly and rationally test measuring instruments for insulation resistances and low-ohmic resistances for their functionality and accuracy, and thus ensure their proper function.

This way, you can assure that the measured values determined with such resistance measuring instruments and confirmed by you, actually correspond to the true resistance value, taking into account the tolerances of such measuring instruments.

#### Usable with the following instruments:

Name	Description
METRISO 5024	Analog insulation tester / low-ohmic measuring instrument / voltmeter with beeper
PROFITEST 2	Universal tester for protective measures for DIN VDE 0100 (EN 61557), part 1-7
PROFITEST MASTER	Series of test instruments for VDE 0100 / IEC 60364.6
METRISO G500MM	Test Instruments for Insulation and Voltage Measurements
METRISO G500, METRISO G1000, METRISO G1000+	Test Instruments for Insulation, Low-resistance and Voltage Measurements
METRISO G1000A	Test Instrument for Insulation, Low-resistance and Voltage Measurements

All insulation testers have a measuring voltage range up to 1,000 V.

## Applicable Regulations and Standards

IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
EN 60529 VDE 0470 part 1	Test instruments and test procedures Protection provided by enclosures (IP code)
DIN EN 61 326-1 VDE 0843-20-1	Electrical equipment for measurement, control and labo- ratory use – EMC requirements – part 1: General requirements

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### **Characteristic Values**

### Measuring Resistors for Testing Insulation Meters

Resistar	nce Value	Tolerance / TC	Dielectric Strength max.	Current Load Capacity max.
100	kΩ	0.5 % / 50 ppm	250 V	2.5 mA
250	kΩ	0.5 % / 50 ppm	500 V	2.0 mA
500	kΩ	0.5 % / 50 ppm	1000 V	2.0 mA
1	MΩ	0.5 % / 50 ppm	1200 V	1.2 mA
2	MΩ	0.5 % / 50 ppm	1200 V	0.6 mA
5	MΩ	0.5 % / 50 ppm	1200 V	0.24 mA
10	MΩ	0.5 % / 50 ppm	1200 V	0.12 mA
20	MΩ	1.0 % / 50 ppm	1200 V	0.06 mA
50	MΩ	1.0 % / 50 ppm	1200 V	0.02 mA
100	MΩ	1.0 % / 50 ppm	1200 V	0.01 mA

## Measuring Resistors for Testing Measuring Instruments for Low-ohmic Resistaces

Resistance Value	Tolerance / TC	Current Load Capacity Continuous	Current Load Capacity Temporary *
1Ω **	1.0 % / 50 ppm	1.5 A	2.0 A, 2 min
0.05Ω **	2.5 % / 100 ppm	10.0 A	15.0 A, 15 s

\* Between the load phases, wait 5 minutes for cooling

\*\* See inscription on case / entry in protocol for exact value.

The tolerance data refer to the inscription on the case / entry in the protocol.

## **Ambient Conditions**

Storage temperature	−25 °C +75 °C
Service temperature	−10 °C +50 °C
Relative humidity	max. 75%, no condensation allowed
Elevation	up to 2,000 m

## **Mechanical Design**

Protection	Housing: Jacks: IP		
Extract fro	m table on the meanin	g of IP cod	les
IP XY (1 <sup>st</sup> digit X)	Protection against foreign object entry	IP XY (2 <sup>nd</sup> digit Y)	Protection against the penetration of water
2	≥ 12.5 mm Ø	0	not protected
5	dust protected	0	not protected

Dimensions Weight 122 mm x 60 mm x 53 mm 0.13 kg

## **Standard Equipment**

- 1 ISO-Kalibrator
- 1 Operating instructions

## **Order Information**

	Description	Туре	Article Number
- 8	Calibration adapter for insulation meters and resistance measuring		
- 11	instruments	ISO-Kalibrator 1	M662A

For additional information on accessories, please refer to

- the Measuring Instruments and Testers catalog
- our website www.gossenmetrawatt.com

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