

# SECU-cal 10

## Calibration Adapter for Testers per DIN VDE 0701-0702/IEC 62353 (VDE 0751)

3-349-599-03  
1/6.10

The adapter can be used to calibrate the following measured quantities:

- Insulation resistance
- Equivalent leakage current
- Differential current
- Contact current
- Protective conductor resistance (test current max. 1A)



### Application

The adapter is used for testing the measuring accuracy of test instruments in accordance with DIN VDE 0701-0702 and IEC 62353 (VDE 0751). As a rule, these instruments must be tested once each year as set forth by accident prevention regulation BGV A3 (formerly BGV A2 and/or VBG4), as well as for certification in accordance with the ISO 9000 quality standard.

All measuring ranges for tests required in accordance with DIN VDE 0701-0702 such as protective conductor resistance, insulation resistance, equivalent leakage current and residual and/or contact current must be tested.

Usable for the following test instruments:

Name	Description
<b>METRATESTER 5+</b>	Test instrument for DIN VDE 0701-0702
<b>SECUSTAR FM+</b>	Modular test and measurement system
<b>METRATESTER 5+3P</b>	Test case for single to 3-phase electrical equipment per DIN VDE 0701-0702
<b>MINITEST PRO</b>	Test instrument for DIN VDE 0701-0702
<b>SECUTEST SIII+</b>	Test instrument for BGV A3 and MPG, as well as for routine and type tests
<b>MINITEST MASTER</b>	Test instrument for DIN VDE 0701-0702 with data memory
<b>MINITEST 3P MASTER</b>	Test instrument for DIN VDE 0701-0702 with CEE sockets
<b>SECLIFE SB</b>	Test system for medical devices in accordance with MPG with integrated database
<b>SECLIFE ST</b>	Multifunctional test instrument for medical devices
<b>SECLIFE SR</b>	Safety tester for medical devices
<b>SECUTEST S2N+</b>	Test instrument for BGV A3 and MPG

### Applicable Regulations and Standards

<b>IEC 61010-1/EN 61010-1/ VDE 0411-1</b>	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
<b>EN 60529 VDE 0470 part 1</b>	Test instruments and test procedures – Protection provided by enclosures (IP code)
<b>DIN EN 61326-1 VDE 0843-20-1</b>	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

### Characteristic Values

<b>Maximum Voltage</b>	For measuring insulation resistance:	600 V DC
	Equivalent leakage current/ equivalent device leakage current:	250 V AC
	Equivalent patient leakage current:	250 V AC
	Leakage current:	250 V AC
<b>Maximum Current</b>	For measuring protective conductor resistance:	1 A DC/AC <sub>eff</sub>
	Insulation resistance	2 mA
	Equivalent leakage current	3.5 mA AC <sub>eff</sub>
<b>Frequency AC</b>	50 Hz ... 60 Hz, sinusoidal	

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## Calibration Adapter for Testers per DIN VDE 0701-0702/IEC 62353 (VDE 0751)

### Ambient Conditions

Operating Temperature 0 °C ... +40 °C  
Storage Temperature -20 °C ... +60 °C

### Electrical Safety

Safety Class I per IEC 61010-1  
Operating Voltage 300 V  
Measuring Category I for insulation resistance measurement  
II for all other measurements  
Pollution Degree 2

### Electromagnetic Compatibility (EMC)

EMC IEC/EN 61326

### Mechanical Design

Protection Class Housing IP 40  
Terminals IP 20

Extract from table on the meaning of IP codes

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 dia.	0	not protected
4	≥ 1.0 mm dia.	0	not protected

Dimensions 125 mm x 66 mm x 41 mm  
Weight approx. 0.26 kg with batteries

### Standard Equipment

1 SECU-cal 10  
1 Operating instructions

### Order Information

Description	Type	Article Number
Calibration adapter	SECU-cal 10	Z715A

For additional information on accessories, please refer to

- our „Measuring Instruments and Testers“ catalog
- our website [www.gossenmetrawatt.com](http://www.gossenmetrawatt.com)