



**Testing system for testing electrical safety in accordance with  
IEC 60601 / IEC 62353 / IEC 61010 / VDE 0701-0702  
MPG / MPBetreibV / BetrSichV / DGUV Vorschrift 3**

- menu guided cursor operation or PC-operation
- PS/2 connector for an external keyboard or barcode scanner
- internal memory for 125 measurements or USER - devices
- automatic or multimeter measurement
- 25 A PE measure according to IEC 60601
- user specific language setting

# Technical Data

Line voltage:	230 V / 115 V ac, $\pm 10\%$ , 50/60 Hz	Insulation resistance:	0,2 – 4,9 MOhm or	
Output power:	maximal 3,5 kW		MOhm	
Protection class:	I		5 - 100 MOhm $\pm 5\%$ of measurement value	
Overvoltage category	II	Leakage current:	0 - 99 $\mu$ A $\pm 2\mu$ A or	
Environmental temperature:	+ 5 - + 40 °C		100 - 20000 $\mu$ A $\pm 1\%$ of measurement value	
Storage temperature:	- 10 - + 50 °C			
Measurement range				
Voltages measurement:	0 - 300 V ac (Entrance resistance: 10 MOhm)	Difference current:	10 - 20000 $\mu$ A $\pm 2\mu$ A or	
Discrimination:	0,3 V		$\pm 1\%$ of measurement value	
Earth conductor resistance:	0,00 - 40 Ohm (test voltage 6 V ac, max. 25 A)	Output power:	1 – 3,5 kW $\pm 2$ W or	
	10 m Ohm		$\pm 5\%$ of measurement value	
Discrimination:	0,2 - 100 MOhm	Current:	0 – 16 A $\pm 50$ mA or	
Insulation resistance:	(test voltage 500 V dc, max. 3,5 mA)		$\pm 2,5\%$ of measurement value	
Discrimination:	0,1 - 2 MOhm	Interface:	1 x Centronics for printer	
Leakage current:	0 - 10 mA		1 x RS-232 for PC-connection	
	or 0 – 20 mA		1 x RS-232 for further test appliances	
Resistance:	1000 Ohm $\pm 1\%$		1 x PS2 for PC keyboard	
	or 2000 Ohm $\pm 1\%$	Test object connection:	1 x VDE test socket	
Discrimination:	1 $\mu$ A or 0,2 $\mu$ A		12 x safety sockets (4mm) for applied part	
Difference current:	10 $\mu$ A - 20000 $\mu$ A		1 x safety socket (4mm) for test probe	
Discrimination:	1 $\mu$ A or 0,2 $\mu$ A		1 x safety socket (4mm) for test PE	
Output power:	1 – 3,5 kW	Display:	4 x 20 char fluorescence-Display	
Discrimination:	1 W	Keyboard:	4 bottoms	
Current:	0 – 16 A		PC keyboard (Option)	
Discrimination:	10 mA	Accessories:	1 x measurement line with test probe, 1 m length	
			1 x test adapter PA-X for self-diagnosis test	
Measurement accuracy			1 x RS-232 Interface cable	
Measurement	range	error	1 x power cord 16 A	
Voltage:	0 - 300 V ac	$\pm 0,3$ V or	Mechanical data:	portable metal case IP20
		$\pm 1\%$ of measurement value	Dimensions:	235 x 130 x 310 mm (W x H x D)
Earth conductor	0,00 – 4,9	$\pm 0,03$ Ohm or	Weight:	approx. 7 kg
resistance:	Ohm		Selectable languages:	german, english, polish, spanish
	5 - 40 Ohm	$\pm 5\%$ of measurement value		portuguese, turkish

The test appliance GM-300 is a measurement system for testing the electrical safety of medical technical and other technical appliances.

The measurements and tests correspond to the IEC 60601, IEC 62353 (VDE 0751), IEC 61010 and VDE 0701-0702.

It is also possible to test the electrical safety of typewriters, electronic tools, laboratory equipment, refrigerators, and the like, all in compliance with VDE 0701-0702.

The GM-300 can be used as stand-alone or PC-controlled testing system.

As needed, your test appliance can operate in a single step modus or can test all steps automatically.

To control the GM-300, a 100% compatible IBM computer with industrial standards is needed. The communication between the PC and the GM-300 follows through the serial interface (RS-232).

The operation of the Safety Tester is very easy. At the front, there is a cursor-controlled menu, where you can choose several different types of operation.

(The specified measuring accuracy refers to the measuring element. Technical modifications and errors reserved. 09/2020)