



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

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. 07/2017)