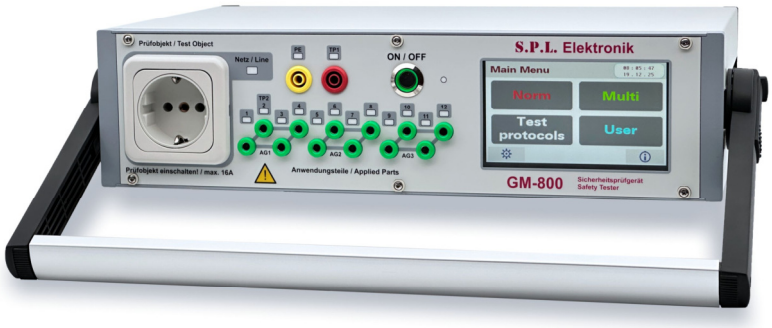
Safety Tester **GM-800**



Measurement and test device for testing electrical safety in accordance with IEC 60601 / IEC 62353 / IEC 61010 / EN 50678 / EN 50699 MPBetreibV / BetrSichV / DGUV Vorschrift 3

- ☑ touchscreen or PC operation
- ☑ USB for external PC-keyboard or barcode scanner
- ☑ internal memory for 50 test instructions and 150 test protocols
- ☑ 25 A PE measurement in accordance with IEC 60601
- ☑ robust light metal case
- ☑ user specific language setting

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TÜVRheinland ZERTIFIZIERT
Management System ISO 9001:2015
www.tuv.com ID 0910095181

Technical Data

Line voltage:	230 V / 115 V ac, ± 10 %, 50/60 Hz
Output power:	maximum 3,5 kW
Protection class:	1
Overvoltage category:	II
Environmental temperature:	+ 5 - + 40 °C
Storage temperature:	- 10 - + 50 °C
Measurement range	
Voltages measurement:	0 - 300 V ac (input resistance: 10 MOhm)
Discrimination:	0.3 V
Earth conductor resistance:	(test voltage 6 V ac, max. 25 A / max. 5 A)
Discrimination:	10 MOhm
Insulation resistance:	0.2 - 100 MOhm (test voltage 500 V dc, max. 3.5 mA)
Discrimination:	0.1 - 2 MOhm
Leakage current:	0.02 - 10 mA or 0.02 - 20 mA
Resistance:	1000 Ohm ± 1 % or 2000 Ohm ± 1 %
Discrimination:	1 µA or 0.2 µA
Differential current:	10 µA - 20000 µA
Discrimination:	1 µA or 0.2 µA
Output power:	1 – 3.5 kW
Discrimination:	1 W
current:	0 - 16 A
Discrimination:	10 mA
Mechanical data:	light weight metal case IP20, 343 x 88 x 220 mm (W x H x D), approx. 5.5 kg
Selectable languages:	german, english, polish
Display:	4,3'' TFT-Display
Operation:	Touchscreen

Intrinsic uncertainty

Measurement	Range	Error
Voltage:	0 - 300 V ac	± 0.3 V or ± 1 % of measurement value
Earth conductor resistance:	0.01 – 4.9 Ohm 5 - 40 Ohm	± 0.03 Ohm or ± 5 % of measurement value
Insulation resistance:	0.2 – 4.9 MOhm or 5 - 100 MOhm	± 0.2 MOhm or ± 5 % of measurement value
Leakage current:	20 - 99 µA 100 - 20000 µA	± 2 µA or ± 1% of measurement value
Differential current:	10 - 20000 µA	± 2 µA or ± 1% of measurement value
Output power:	1 – 3.5 kW	± 2 W or ± 5 % of measurement value
Current:	0 - 16 A	± 50 mA or ± 2.5 % of measurement value

The specified intrinsic uncertainties relate to the respective measuring circuit. The operating uncertainty at the test object connections is ± 5%. The displayed value is normalized according to the documentation / standard requirement, if required.

Interface:	1 x USB-B for PC connection 1 x USB-A for external PC-keyboard or Barcode scanner
Test object connections:	1 x outlet CEE 7/4 12 x sockets 4mm for applied part, groupable into 3 groups 1 x safety socket 4mm for test probe 1 x safety socket 4mm for PE
Accessories:	1 x measurement line with test probe, 1 m length 1 x test adapter PA-X for self-diagnosis test 1 x USB cable 1 x power cord 16 A

GM-800 is a measurement and test device for testing the electrical safety of medical technical and other technical appliances. The measurements and tests correspond to the conditions of IEC 60601, IEC 62353, IEC 61010, EN 50678 and EN 50699.

GM-800 can be operated as a stand-alone or PC-controlled testing system. You can use the device to perform individual single measurements or even run automatic tests.

The operation of the equipment is touch-controlled and with a few decisions various functions of the equipment can be activated. In the stand-alone mode, operation is done by the touch panel which is integrated into the front panel. In addition to that, an alphanumeric keyboard or a scanner can be connected/added. Adding one of them will make the input of texts, like tester name and equipment description, much easier.

The GM-800 can be used to perform separate measurement of direct- and alternating currents (ac/dc measurement, RMS) of the patient leakage current and patient auxiliary current in accordance to IEC 60601.

A non-volatile memory allows up to 150 test protocols to be stored. These test protocols can be output to the appropriate PC software via the USB interface. To control the GM-800 as PC-controlled testing system a 100% compatible IBM computer with industrial standards is required. The communication between the PC and the GM-800 is done via the USB interface.

(Technical modifications and errors reserved. 10/2026)

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