

Testing system for testing electrical safety in accordance to IEC 60601 / IEC 62353 / IEC 61010 / EN 50678 / EN 50699 MPBetreibV / BetrSichV / DGUV Vorschrift 3

- ☑ touchscreen or PC operation
- ☑ Bluetooth for external PC-keyboard or barcode scanner
- ☑ internal memory for 50 test instructions and 150 test protocols
- ☑ 25 A PE measure in according to IEC 60601
- ☑ user specific language setting





Technical Data

Line voltage: 230 V / 115 V ac, \pm 10 %, 50/60 Hz

Output power: Protection class:

Overvoltage category:

Environmental temperature: - 10 - + 50 °C Storage temperature:

Measurement range

Voltages measurement:

Discrimination: Earth conductor resistance:

Discrimination: Insulation resistance:

Discrimination: Leakage current:

Resistance:

Discrimination: Differential current: Discrimination: Output power:

Discrimination: current: Discrimination:

Mechanical data:

Selectable languages:

Operation:

maximum 3.5 kW

+ 5 - + 40 °C

0 - 300 V ac

(input resistance: 10 MOhm) 0.3 V

(test voltage 6 V ac, max. 25 A /

10 MOhm 0.2 - 100 MOhm

(test voltage 500 V dc, max. 3.5 mA) 0.1 - 2 MOhm

0.02 - 10 mA or 0.02 - 20 mA 1000 Ohm \pm 1 % or 2000 Ohm ± 1 % 1 μA or 0.2 μA 10 μΑ - 20000 μΑ

1 μA or 0.2 μA 1 – 3.5 kW 1 W 0 - 16 A 10 mA

light weight metal case IP20, 343 x 88 x 220 mm (W x H x D),

approx. 5.5 kg

german, english, polish

Display: 4.3" TFT-Display Touchscreen

Intrinsic uncertainty Measurement

Range Voltage:

0 - 300 V ac

 \pm 0.3 V or \pm 1 % of measurement value

Earth conductor 0.01 - 4.9 Ohmresistance:

5 - 40 Ohm

0.2 - 4.9 MOhm or

10 - 20000 μA

5 - 100 MOhm

20 - 99 uA Leakage current: 100 - 20000 μA

Differential current:

Insulation resistance:

Output power:

1 - 3.5 kW

Current: 0 - 16 A

 \pm 0.03 Ohm or ± 5 % of measurement value + 0.2 MOhm or + 5 % of measurement value + 2 uA or + 1% of measurement value \pm 2 µA or \pm 1% of

measurement value ± 2 W or ± 5 % of measurement value \pm 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 protected ground VDE test socket 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

1 x measurement line with test probe, 1 m length Accessories:

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 touchcontrolled 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 PCcontrolled 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. 11/2023)





