

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

- ☑ touch screen or PC operation
- ☑ PS2 socket for external PC-keyboard or barcode scanner
- internal memory for 50 test instructions and 200 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: maximum 3,5 kW

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+ 5 - + 40 °C

- 10 - + 50 °C

0 - 300 V ac

0.00 - 40 Ohm

(input resistance: 10 MOhm)

Protection class:

Overvoltage category: Enviromental temperature:

Storage temperature: Measurement range Voltages measurement:

Discrimination:

Earth conductor resitance:

(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)

0,1 - 2 M Ohm Discrimination: Leakage current: 0 - 10 mA or 0 - 20 mA Resistance: 1000 Ohm \pm 1 % or

2000 Ohm \pm 1 % Discrimination: 1 μA or 0,2 μA 10 μΑ - 20000 μΑ Difference current: Discrimination: 1 μA or 0,2 μA 1 - 3,5 kW Output power: Discrimination: 1 W current: 0 - 16 A Discrimination: 10 mA

> range error

Voltage: 0 - 300 V ac \pm 0,3 V or \pm 1 % of measurement value

Earth conductor 0,00 - 4,9 Ohm \pm 0,03 Ohm or 5 - 40 Ohm ± 5 % of 5 - 40 Ohm measurement value Insulation resistance: 0.2 - 4.9 MOhm or \pm 0,2 MOhm or \pm 5 % of

5 - 100 MOhm measurement value

Leakage current: 0 - 99 uA \pm 2 μA or \pm 1% of 100 - 20000 μA measurement value Difference current: 10 - 20000 μΑ + 2 uA or ± 1% of measurement value Output power: 1 - 3,5 kW \pm 2 W or ± 5 % of

measurement value Current: 0 - 16 A \pm 50 mA or \pm 2,5 % of measurement value

Interface: 1 x Centronics for printer 1 x USB for PC connection

> 1 x RS-232 for PC connection 1 x PS2 for PC keyboard or Barcode Scanner

Test object 1 x protected ground VDE test socket connections:

5 x safety sockets (4mm) for applied part,

groupable into 3 groups

1 x safety socket 4mm for test probe 1 x safety socket 4mm for PE

4 3" TFT-Display Display: Operation: Touch panel

1 x cable with test probe Accessories:

1 x test adapter PA-X for self-diagnosis test

1 x RS-232 interface cable

Mechanical data: light weight metal case IP20

290 x 340 x 87 mm (D x W x H), approx. 6 kg Selectable languages:

german, english. polish, turkish

GM-610 is a measurement and test device for testing the electrical safety of medical technical other technical appliances. measurements and tests correspond to the conditions of IEC 60601, IEC 62353 (VDE 0751), IEC 61010 and VDE 0701-0702.

GM-610 can be used as standalone or PCcontrolled testing system. You can start individual single measurements or you can start automatic tests.

The operation of the equipment is touchcontroled and with a few decisions the different functions of the equipment become activated. In the stand alone function the operation takes place by the touch panel, which is integrated the into front plate. Additionally alphanumeric keyboard and/or a scanner are connectablly. Thus input of texts, like tester name and equipment description, is much

GM-610 easier. With the separate measurement of direct- and alternating currents (ac/dc measurement, RMS) of the patient leakage current and patient auxiliary current can be carried out accordingly to IEC 60601.

A nonvolatile memory can store up to 200 test protocols. These protocols can be put out directly via the integrated Centronics printer interface from the tester to a standard printer or via the USB or RS-232 interface to appropriate PC software. To control the GM-610 a 100% compatible IBM computer with industrial standards is needed. communication between the PC and the GM-610 takes place by USB / serial interface (RS-232).

(The specified measuring accuracy refers to the measuring element. Technical modifications and errors reserved. 07/2014)