



**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
- robust light metal case
- 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 $\pm 0,2$ MOhm or $\pm 5\%$ of measurement value
Output power:	maximum 3,5 kW	Leakage current:	0 - 99 μ A ± 2 μ A or $\pm 1\%$ of measurement value
Protection class:	1	Difference current:	100 - 20000 μ A ± 2 μ A or $\pm 1\%$ of measurement value
Overvoltage category:	II	Output power:	1 - 3,5 kW ± 2 W or $\pm 5\%$ of measurement value
Environmental temperature:	+ 5 - + 40 °C	Current:	0 - 16 A ± 50 mA or $\pm 2,5\%$ of measurement value
Storage temperature:	- 10 - + 50 °C	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
Measurement range Voltages measurement:	0 - 300 V ac (input resistance: 10 MOhm)	Test object connections:	1 x protected ground VDE test socket 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
Discrimination:	0,3 V	Display:	4,3" TFT-Display
Earth conductor resistance:	0,00 - 40 Ohm (test voltage 6 V ac, max. 25 A / max. 5 A)	Operation:	Touch panel
Discrimination:	10 mOhm	Accessories:	1 x cable with test probe 1 x test adapter PA-X for self-diagnosis test 1 x RS-232 interface cable
Insulation resistance:	0,2 - 100 MOhm (test voltage 500 V dc, max. 3,5 mA)	Mechanical data:	light weight metal case IP20 290 x 340 x 87 mm (D x W x H), approx. 6 kg
Discrimination:	0,1 - 2 M Ohm	Selectable languages:	german, english, polish, turkish
Leakage current:	0 - 10 mA or 0 - 20 mA		
Resistance:	1000 Ohm $\pm 1\%$ or 2000 Ohm $\pm 1\%$		
Discrimination:	1 μ A or 0,2 μ A		
Difference current:	10 μ A - 20000 μ A		
Discrimination:	1 μ A or 0,2 μ A		
Output power:	1 - 3,5 kW		
Discrimination:	1 W		
current:	0 - 16 A		
Discrimination:	10 mA		
Precision of measurement	range	error	
Voltage:	0 - 300 V ac	$\pm 0,3$ V or $\pm 1\%$ of measurement value	
Earth conductor resistance:	0,00 - 4,9 Ohm 5 - 40 Ohm 5 - 40 Ohm	$\pm 0,03$ Ohm or $\pm 5\%$ of measurement value	

GM-610 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 (VDE 0751), IEC 61010 and VDE 0701-0702.

GM-610 can be used as stand-alone or PC-controlled testing system. You can start individual single measurements or even automatic tests.

The operation of the equipment is touch-controlled and with a few decisions the different functions of the equipment will be activated. In the stand-alone function, the operation takes place by the touch panel which is integrated into the front plate. In addition to that, an alphanumeric keyboard and/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. With GM-

610 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 directly put out via the integrated Centronics printer interface from the tester to a standard printer or via the USB or RS-232 interface to an appropriate PC-Software. To control the GM-610 a 100% compatible IBM computer with industrial standards is needed. The 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. 07/2017)



深圳为尔康科技有限公司 联系人：曾祥满 手机：13632925349

QQ：274798107 电话：0755-28896837 地址：深圳市龙岗区沙平北路111号608A

网址：www.medicalQC.com 邮箱：szchina1718@163.com