

The GS Testing Module for function tests of HF Surgical Equipment in accordance to IEC 60601-2-2

- ☑ HF power measurement
- ☑ HF voltage measurement
- ☑ HF current measurement
- ☑ HF leakage current measurement
- ☑ Neutral electrode test
- ☑ test load resistances 10 Ohm, 25 6375 Ohm in steps of 25 Ohm





Technical Data

Measuring range			range	error
HF-current TRMS:	0 - 5000 mA			
Discrimination:	0,1 mA	HF output power:	0 - 500 W	±1W or
HF- output power RMS:	1 - 500 Watt			± 2,5 % of value
(in dependence of R _L)		HF leakage current:	0 - 250 mA	± 2 mA
HF-leakage current:	0 - 250 mA			± 5 % of value
Discrimination:	0,1 mA	HF-current TRMS:	0 - 5000 mA	± 2 mA
Neutral electrode test:	0 - 1000 Ohm			±4% of value
Bandwidth	0,3 - 10 MHz	Load resistors:	10 Ohm,	
Measuring principle:	thermal electric converter		25 - 6375 Ohm	±3%
Load resistors:	10 Ohm	Accessories:	1 x Adapter for potential balance	
	25 Ohm - 6375 Ohm			
	In steps of 25 Ohm			
Swing in time:	< 3 sec			
Output power:	500 W: 1 min on, 5 min off			
	permanent: max. 200 W at 25°C			
	environmental temperature			
	(50 – 800 Ohm)			

Description of functions:

The GS Testing Module HF, serves to test the function of HF Surgical Equipment. In accordance to the instructions of the manufacturer of such surgical devices, the user can measure the HF output power and the HF leakage current given on a load resistor. The load resistor is adjustable to 10 Ohm and from 25 – 6375 Ohm in steps of 25 Ohm. The test parameters for testing can be laid down in a test instruction and can be automatically tested with a PC. This makes it possible to reduce the time for testing. In the use as multi-functional test device, the measured values will be directly displayed. For example:

HF output power HF leakage current HF current, RMS HF voltage, RMS

HF output power:

During the measurement of power, firstly the software sets the prescribed load resistance to 10 Ohm or from 25 Ohm to 6375 Ohm in 25 Ohm steps. Than the HF output power can be send to the HF and is measured. An automatic range switcher takes care of the optimal control of the RMS-converter. The RMS converter, based on a thermal conversion principle and together with the driver module, is designed for frequencies up to 10 MHz.

HF leakage current:

The high-frequency leakage current is measured through a 200 Ohm resistor. For this test, the load resistor is adjustable.

(The specified measuring accuracy refers to the measuring element. Technical modifications and errors reserved. 09/2020)



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