

Electrosurgical Analyzer for function tests of HF Surgical Equipment in accordance to IEC 60601-2-2

- ☑ HF power measurement
- ☑ HF voltage measurement / current measurement
- ☑ HF leakage current measurement
- ☑ neutral electrode test
- ☑ 6 selectable pre-resistances
- ☑ option suit case





Technical Data

Line voltage:	83 - 264 V ac, 50 /60 Hz	Measurement	range	error
Power consumption:	50 VA	HF output power:	0 - 500 W	± 1 W or
Class:	1			± 2,5 % of value
Environmental temperature:	+ 5 - + 40°C	HF leakage current:	0 - 250 mA	± 2 mA
Storage temperature:	- 10 - + 50°C			± 5 % of value
		HF-current RMS:	0 - 5000 mA	± 2 mA or
Measuring ranges:				± 4 % of value
HF-current RMS:	0 - 5000 mA	HF-current Peak:	0 - 5000 mA	± 2 mA or
HF-current Peak:	0 - 5000 mA			± 4 % of value
Discrimination:	0,1 mA	Load resistors:	10 Ohm,	
HF- output power RMS: (in dependence of RL)	0 - 500 Watt		25 - 6375 Ohm	± 3 %
Crest Faktor: (V2)	1 - 10 (bei > 1000 mA)	Keyboard:	6 key foil keyboard	
HF-leakage current:	0 - 250 mA	Display:	4 x 20 char LCD B/W display	
Discrimination:	0,1 mA	Interfaces:	1 x USB for PC interface 1 x RS-232 for PC interface 1 x RS-232 for additional test devices	
Neutral electrode test:	0 - 1000 Ohm			
Measuring principle:	thermal electric converter			
Load resistors:	10 Ohm	Testing plugs:	2 x safety plugs 4 mm for HF power	
	25 Ohm - 6375 Ohm			
	In steps of 25 Ohm		2 x safety plugs 4 mm for HF leakage current	
	. 0		1 x safety plug 4 mm for PE	
Swing in time:	< 3 sec		1 x potential balance	
Output power:	500 W: 1 min on, 5 min off		·	
	permanent: max. 200 W at 25°C	Accessories:	1 x adapter for potential balance	
	environmental temperature		1 x USB cable	
	(50 – 800 Ohm)		1 x power cord	
Mechanical data:	light way metal case IP20			

Description of functions:

Dimensions:

Weiaht:

HF-400 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 a multi-functional test device, the measured values will be directly displayed. For example:

340 x 87 x 290 mm (W x H x D)

approx. 3.8 kg

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

HF output power:

Selectable languages:

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-400 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.

german, english, french, polish

spanish, italian, portuguese, turkish

HF leakage current:

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

(We reserve the right to make technical changes without prior notice 09/2020)





