

MODUM

electrosurgical analyzer



MODUM is designed to measure electrical parameters at the output of electrosurgical units.

Ref. No. 010-100
MODUM electrosurgical analyzer

Two operation modes:


- single measurement mode (the user can select all parameters of the measurement),
- measurement of characteristics as a function of resistance; displayed on the screen; possibility to save to USB memory card,
- semi-automatic mode (the user is guided step by step to carry out a test),
- leakage current measurement,
- NEM calibration for EMED ESU's.

Additional features:

- portable, battery-based power supply,
- energy saving at standby mode,
- screen rotation of 180°,
- different formats of reports available to be saved to USB memory card (HTML, CSV, GIF),
- advanced measuring algorithm, which adjusts the gain during the delay time",
- can be connect to PC and operate with PMGui for automatic measurements.



technical parameters

Measurement method	Effective current
Measurement accuracy	$\pm 2\%$ ± 2 W
Load resistance	0 Ω ; 2.5 Ω ; 10 Ω ; 12.5 Ω ; 25 Ω - 2400 Ω – 25 Ω regulation step
Activation output socket	KFV60 Socket
Remote operation	USB (SCPI commands)
Display	WVGA 800x480 7" with a glass touch panel
Communication ports	RS232 USB device
Power supply	9 V  (2.5 A when the rechargeable battery is being charged)
Battery-based power supply	Li-ion 7.2 V 4400 mAh
Battery-based operation time	About 4 h
Dimensions	205x245x50 mm
Weight	2.5 kg
Constant power	400 W $\pm 2\%$, peak power 500 W $\pm 2\%$
Voltage Peak-to-Peak	6 kV _{p-p} $\pm 5\%$
Peak current	14 A _{p-p} (5 A RMS) $\pm 2\%$
Regulation of measurement time	0.1 s - 60 s with step of 0.1 s,
Regulation of delay time	0-60 s with step of 0.1 s,

list of spare parts

Lp.	Ref. No.	Description
1	SP-4-01-43	Test cable, male 4 mm plug
2	SP-4-01-44	Foot-switch cable with 6-pin connectors
3	SP-4-01-45	Foot-switch cable adapter 6-pin to 4-pin
4	SP-4-01-46	Test cable for US neutral electrode socket
5	SP-4-01-47	Test cable for EU 6.3 mm neutral electrode socket
6	SP-4-01-48	Rem calibration cable, 2x male 4 mm plug, 1x US neutral electrode plug
7	SP-4-01-49	RS-232 COM cable
8	SP-4-01-50	USB-B cable, PC communication
9	SP-9-01-01	SDS make - bipolar female adapter (GID 0xF00C)
10	SP-9-01-02	Leakage current measuring adapter, IEC 60320 socket
11	SP-9-02-01	USB PenDrive - Modum PC application
12	SP-9-03-01	Power supply / charger, EU plug 100-240 V AC, 9 V/2 A DC

For more information, contact the regional representatives or visit www.emed.pl

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