

## SECULIFE | ESxTRA Electrosurgical Analyzer

3-349-764-03  
1/9.13

### SECULIFE ESxTRA for functional testing of Electrosurgical generators

- Capture, Store, Print RF Waveforms
- Industry Standard RF Current Measurement
- Automated User-Definable Testing Sequences
- Ultra-fast digitization of the complex RF waveform
- USB- (3), RS232-, and Ethernet communication Ports
- Remote communications capability with ESU Generators
- Embedded Real-Time operating System with  $\frac{1}{4}$  VGA color touch screen display



Using internal precision non-inductive test loads in the range of  $0 \Omega$  to  $6400 \Omega$  in a previously unavailable  $1 \Omega$  increment the SECULIFE ESxTRA offers biomedical engineers, service engineers and manufacturers compatibility. Just in case, we have included the capability to add an external load, guaranteeing 100% test load requirement compatibility for years to come.

Using a RF current range of 2 mA to 7000 mA RMS (power range of 500 Watts RMS), the SECULIFE ESxTRA surpasses all other current and previously available analyzers in measurement range. The calibration quality accuracy of our new analyzer shatters all previous barriers seen with other so-called full-featured analyzers and opens the door for end-users to perform test procedures in the field as well as calibration procedures on even the newest generators from leading manufacturers all with unprecedented precision and accuracy.

Features like automated power load curve tests, with multiple power steps per load setting, and automated user-definable test sequences, with an unlimited quantity of steps, each step having virtually unlimited ASCII text description capability, further set the new SECULIFE ESxTRA in a class of its own.

You can even program an automated REM/ARM/CQM and/or RF leakage test report in the SECULIFE ESxTRA. The utilization of state-of-the art technology and the strict adherence to the electrosurgery industry's standard of RF

current measurement (instead of voltage measurement) helps ensure electrosurgery generator manufacturer acceptance of readings taken with the SECULIFE ESxTRA, not only on conventional "continuous output" waveform generators, but also on "pulsed output" waveform generators.

The new SECULIFE ESxTRA is in a class of its own, and its real time operating system offers virtually unlimited expansion capabilities in the future that make it the ONLY logical choice for customers looking for a full-featured analyzer.

#### Purchase parts

- 1 Operating Instruction
- 1 Cable set

# SECULIFE | ESxTRA

## Electrosurgical Analyzer

### Technical Data

Device:

|                 |   |
|-----------------|---|
| Display         | 14.5 cm QVGA 18 bit color touch screen  |
| Construction    | 19.8 x 31.8 x 57.2 cm/Aluminum  |
| Weight          | 31 lbs (2.3 kg)   |
| Face Plate      | Lexan/Back Printed  |
| Operating Range | 15 to 40 °C   |
| Storage Range   | -20 to 65 °C  |
| Connections     | Input: I/O 4 mm Safety Jacks<br>3x USB, 1x Serial, 1x Ethernet, 1x PS/2 Keyboard/ Mouse<br>Output: 1x BNC Scope / Hypertonics 25-pin Footswitch connector<br>Footswitch connector |

| Measurements               |  |
|----------------------------|--|
| A/D Resolution             | 14 Bits  |
| A/D speed                  | 64 MSPS  |
| Bandwidth                  | 50 kHz – 10 MHz  |
| Measurement Accuracy       | 1% Reading   |
| Current Range              | 2.0 – 700.0 mA RMS [low range]<br>20 – 7000 mA RMS [high range]  |
| Current Resolution         | 0,1 mA RMS [low range]<br>1 mA RMS [high range]                  |
| Power (Watts) Range        | 500 Watts  |
| Power Resolution (Watts)   | 0.1 Watts  |
| Crest Factor Range         | 1.4 to 500   |
| Crest Facto Resolution     | 0.1  |
| Input Voltage Range        | 0.20 – 70.0 mV RMS [low range]<br>20 – 700.0 mV RMS [high range] |
| mV Peak/Peak-to-Peak Range | 0.0 to 1.0   |

| LOAD BANK                                |  |
|--|--|
| Internal setup/Load and selection Relays | 10 kV, 5 A rated Reed Relays   |
| INTERNAL LOAD SELECTION                  |  |
| Internal Load Range                      | 0 to 6400 ohms   |
| Internal Load                            | 1% Non-inductive   |
| Internal Load Power Ratings              | 1 ohm: 25 W<br>2 ohm: 50 W<br>4 ohm: 100 W<br>Remaining Loads: 225 W |
| Load Bank Duty Cycle                     | 10 Seconds on, 30 Seconds off  |
| Load Cooling                             | Dual 120 mm variable speed DC Fans                                   |

### Ordering information

| Description              | Type            | Order number |
|--------------------------|-----------------|--------------|
| Electrosurgical Analyzer | SECULIFE ESxTRA | M695C        |

For more information on accessories, see

- [www.gossenmetrawatt.com](http://www.gossenmetrawatt.com)

Edited in Germany • Subject to change without notice • A PDF version is available on the Internet