

SECULIFE | **ESxTRA**
ELECTROSURGICAL ANALYZER

OUR TEST INSTRUMENTS
GIVE YOU EXTRA SAFETY.

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GMC-I Messtechnik GmbH

Südwestpark 15
90449 Nürnberg
GERMANY

Fon: +49 911 8602-111 Fax: +49 911 8602-777

 **GOSSEN METRAWATT**
Safety through Competence

www.seculife.eu

www.gossenmetrawatt.com

info@gossenmetrawatt.com



ELECTROSURGICAL ANALYZER

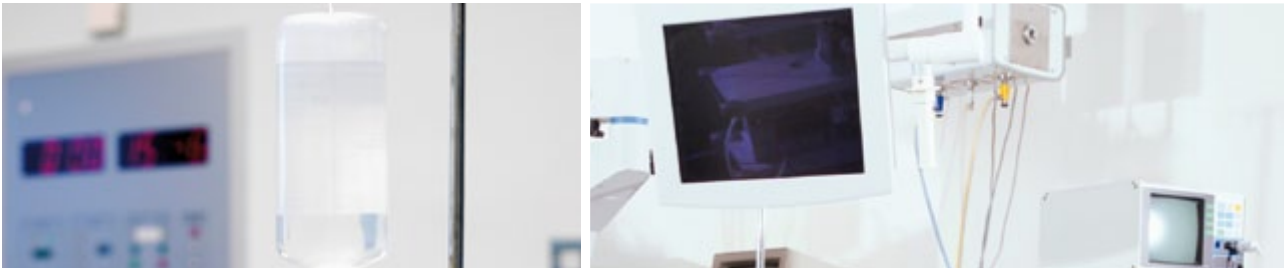
THE SECULIFE ES XTRA REPRESENTS A TOTALLY NEW STANDARD IN FULL-FEATURED ELECTROSURGERY ANALYZERS, WITH FEATURES THAT HAVE NEVER BEEN SEEN BEFORE. IT OFFERS UNPRECEDENTED FEATURES AND CAPABILITIES, ALL IN A SELF-CONTAINED “CONVENTIONAL” ELECTROSURGERY ANALYZER.

Using internal precision non-inductive test loads in the range of 0 Ω to 6400 Ω in a previously unavailable 1 Ω increment, the Seculife ES Xtra 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 ES Xtra 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 ES Xtra in a class of its own. You can even program an automated REM/ARM/CQM and/or RF leakage test report in the Seculife ES Extra.

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 ES Xtra, not only on conventional “continuous output” waveform generators, but also on “pulsed output” waveform generators.

The new Seculife ES Xtra 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.



FEATURES

- Industry Standard RF Current Measurement

→ Continuous & Pulsed Output Waveform Compatible

→ Embedded Real-Time Operating System with ¼ VGA Color Touch Screen Display

→ Displays Up to 15 Different Measurement Parameters with User Selectable and Definable Screens

→ Internal Precision Test Loads From 1 Ω to 6400 Ω in 1 Ω Increments

→ External Test Load Compatibility

→ Automated Power Load Curves with Multiple Power Settings Per Load Setting
- Automated User-Definable Testing Sequences

→ Print Test Reports to RS232 or USB Printer

→ USB (3), RS232, and Ethernet Communication Ports

→ External Keyboard and Mouse Compatible Via Dedicated Ports

→ Automatic or Manual Activation of ESU Generator During Power Load Curve Tests

→ Remote Communications Capability with ESU Generators

→ REM/ARM/CQM Testing Via 500 Ω Adjustable Load in 1 Ω Increments

→ RF Leakage Current Measurement

→ Capture, Store, Print RF Waveform

TECHNICAL DATA

MEASUREMENTS

- › A/D Resolution

› A/D Speed

› Bandwidth

› Measurement Accuracy

› Current Range

› Current Resolution

› Power (Watts) Range

› Power Resolution (Watts)

› Crest Factor Range

› Crest Factor Resolution

› Input Voltage Range

› Voltage Resolution

› mV Peak/Peak-to-Peak Range

› mV Peak/Peak-to-Peak Resolution
- 14 Bits

64 MSPS

50 kHz - 10 MHz

1% Reading

2.0 to 700.0 mA RMS (Low Range)
20 to 7000 mA RMS (High Range)

0.1 mA RMS (Low Range)
1 mA RMS (High Range)

500 Watts

0.1 Watt

1.4 to 500

0.1

0.20 to 70.00 mV RMS (Low Range)
20 - 700.00 mV RMS (High Range)

0.01 mV (Low Range)
0.1 mV (High Range)

0.0 to 1.0

0.1

PHYSICAL / ELECTRICAL

- › Screen Size

› Setup Memory

› Memory Retention

› Operation Range

› Storage Range

› Construction

› Size

› Weight

› Connections

› Power Supply Adapter
- 5.7" QVGA 18 bit color touch screen

EEPROM, All Parameters

10 Years w/o Power

15 to 30 Degrees C

-40 to 60 Degrees C

Enclosure - Aluminum
Face - Lexan, Back Printed

7.8" H x 15" W x 22.5" D

31 lbs

Input: I/O 4mm Safety Jacks
3xUSB, 1xSerial, 1xEthernet, 1xPS/2 Keyboard/Mouse
Output: 1xBNC Scope
Hypertronics 25-pin Footswitch connector

Input: Universal 100-240 VAC, 50-60 hz
Output: 12 VDC

INTERNAL LOAD SELECTION

- › Internal Load Range

› Internal Load Accuracy

› Internal Load Power Ratings

› Load Bank Duty Cycle

› Load Cooling
- 0 to 6400 ohms

1% Non-inductive

1 ohm: 25W
2 ohm: 50W
4 ohm: 100 W
Remaining Loads: 225W

10 Seconds on, 30 Seconds off

Dual 120mm Variable Speed DC Fans

EXTERNAL LOAD SELECTION / LOAD BANK SPECIFICATIONS

- › Internal Load Range

› External Load Resolution

› Internal Setup/Load Selection Relays
- 0 to 6400 ohms

1 ohms

10KV, 5A rated Reed Relays