

ESU Analyzer Series

Features - ESU-2300

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- ◆ Measurements via Industry Standard Current Sensing Method
- ◆ Built-In RF Current Transformer (Pearson® Coil)
- ◆ True RMS Readings Using DFA™ Technology
- ◆ Performs Output, RF Leakage & CQM Tests
- ◆ Main Test Loads from 50 to 750 Ohms
- ◆ External Test Loads Supported
- ◆ Auxiliary Test Load – 200 Ohms
- ◆ Independent Variable CQM Test Load – 1 to 500 Ohms
- ◆ Non-Inductive Internal Load Resistors
- ◆ Graphical Display with Backlighting & Simultaneous Details of Parameters & Scrolling Option Control
- ◆ Bright-White Display Backlight
- ◆ Rechargeable Battery or Line Powered Operation
- ◆ Isolated Oscilloscope Output
- ◆ Full Remote Operation
- ◆ USB & RS232 Serial Ports
- ◆ Digital Battery Monitor
- ◆ Flash Programmable, Field Upgradeable
- ◆ Tactile Keys With Audible Feedback

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The ESU-2300 Analyzer is for users who prefer a conventional instrument with internal, selectable test loads. Utilizing the same Patent-Pending DFA™ Technology as our new ESU-2050, and ESU-2400, the ESU-2300 uses industry standard current sensing technology rather than relying on less accurate voltage measurement techniques offered by some competitive products.

The ESU-2300 uses advanced ultra-high-speed waveform sampling techniques to accurately analyze even the most complex electro-surgery generator waveforms. You can easily analyze Coag waveforms like Desiccate, Fulgurate or even Spray with the same accuracy as pure sinusoidal Cut waveforms. RMS current (ma) and power (watts) can be easily read from the large LCD graphical display. A whisper quiet fan keeps the internal non-inductive load resistors running cool.

Added features like CQM Testing, RF Leakage Current measurement, a Rechargeable Battery, USB and RS232 com ports, BNC output, universal power supply and the ability to easily update the instrument's firmware in the field via our unique Flash Update Utility Software put the ESU-2300 in a class of its own.

ESU Analyzer Series

SPECIFICATIONS

| | | | |
|----------------------------|--|---------------------|---|
| Method | Measurement Industry Standard Current Sensing, using RF Current Transformer (Pearson Coil) | Enclosure | Physical 6.0" x 13.5" x 12.0" High Impact Plastic, UL 94 V-0 Face-Lexan, Back Printed |
| Range | Power 1.0 to 400.0 Watts RMS | Weight | < 17 lbs (7.7 kg) |
| Resolution | 0.1 Watts | Power Supply | Electrical Kycon 3 position locking connector 9 VDC 3A Output |
| Accuracy | ± 5% Reading or ± 3 Watts (whichever is greater) | Voltage | 83 to 264 VAC |
| Range | Current 20 to 2500 mA RMS | Frequency | 47 to 63 Hz |
| Resolution | 1 mA | Battery | Sealed Lead Acid 6 VDC, 7.2 AH |
| Accuracy | ± 2.5% Reading or ± 15 mA | Display | General LCD Graphical 256 x 64 Pixels, Backlight |
| Bandwidth | Limits 10 kHz to 10 MHz | Ventilation | Internal Fan, variable speed Over temperature protected Fan rotor sensor |
| Crest Factor | 1.4 to 500 | Oscilloscope Output | Isolated (uncalibrated), BNC Connector |
| Voltage | 10,000 V Peak | Setup Memory | EEPROM, All Parameters |
| Main Test Load | Loads | Memory Retention | 10 years w/o Power |
| Range | 50 to 750 Ohms | Operating Range | 15 to 35 Degrees C |
| Resolution | 50 Ohms | Storage Range | -20 to 60 Degrees C |
| Accuracy | ± 1% (DC) | Humidity Limit | 90% Non-Condensing |
| Duty Cycle | 50% (1 minute Period) | Connections | Oscilloscope: BNC Communications USB, DB9 Loads: 4mm safety sockets |
| Auxiliary Test Load | 200 Ohms | | |
| Fixed | ± 1% (DC) | | |
| Accuracy | 225 Watts | | |
| Rating | | | |
| CQM Test Load | 1 to 500 Ohms | | |
| Range | 1 Ohms | | |
| Resolution | ± 2% or ± 2 Ohms (whichever is greater) | | |
| Accuracy | | | |

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**Optional: External Load
Precision Power Resistor**
(Check webstore for a
listing of available values)