Basic Features - ESU-2300

- 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



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, 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 electrosurgery 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 comports, 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.

SPECIFICATIONS

Measurement **Physical Industry Standard Current** Method 6.0" x 13.5" x 12.0" Enclosure Sensing using RF Current High Impact Plastic, UL 94 V-0 Transformer (Pearson® Coil) Face - Lexan, Back Printed Power 12.5 lbs Weight 1.0 to 400.0 Watts RMS Range Electrical 0.1 Watts Resolution **Power Supply** External Universal supply 12 VDC Output ±5% Reading or ±3 Watts Accuracy (whichever is greater) Voltage 83 to 264 VAC Current Frequency 47 to 63 Hz Range 30 to 2500 mA RMS Battery Sealed Lead Acid Resolution 1 mA 6 VDC, 7.2 AH Accuracy ± 2.5% Reading or ± 15 mA General (whichever is greater) Display LCD Graphical 256 x 64 Pixels Backlight Limits Bandwidth 10 kHz to 10 MHz Ventilation Internal Fan, variable speed Over temperature protected **Crest Factor** 1.4 to 500 Fan rotor sensor 10,000 V Peak Voltage Oscilloscope Output Isolated (uncalibrated), BNC Loads Connector Main Test Load **Setup Memory** EEPROM, All Parameters Range 50 to 750 Ohms Memory Retention 10 years w/o Power Resolution 50 Ohms **Operating Range** 15 to 35 Degrees C Accuracy ± 1%(DC) Storage Range -40 to 60 Degrees C **Duty Cycle** 50% (1 minute period) **Humidity Limit** 90% Non-Condensing 200 Ohms Fixed Connections Oscilloscope: BNC Communications: USB, DB9

Auxiliary Test Load

Accuracy ± 1%(DC)

Rating 225 Watts

CQM Test Load (Contact Quality Monitor test load is an

independent variable load)

Range 1 to 500 Ohms

Resolution 1 Ohm

Accuracy ± 2%

Internal Load Values NOT Exactly what YOU need?

The ESU-2300 allows for the use of External or a combination of Internal & External Load Resistors to cover ranges outside the provided Internal Load Range. Setup Parameters allow the user to tell the unit about External Loads. This ensures the continued accurate measurement & display of power.



Loads: 4mm safety sockets

Optional External Load Precision Power Resistor (See Page 9 for a listing of available values)