

## Features - ESU-2300

- Measurements via Industry Standard Current Sensing Method
- Built-In RF Current Transformer (Pearson<sup>®</sup> Coil)
- 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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## **ESU Analyzer Series**

Features - ESU-2300



The ESU-2300 Analyzer is for users who prefer a conventional instrument with internal, selectable test loads. Utilizing the same Patent-Pending DFA<sup>™</sup> 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 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 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

Range Resolution Accuracy

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Bandwidth Crest Factor Voltage

Main Test Load Range Resolution Accuracy Duty Cycle

Auxiliary Test Load Fixed Accuracy Rating

**CQM Test Load** Range Resolution Accuracy



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<u>Measurement</u> Industry Standard Current Sensing, using RF Current Transformer (Pearson Coil)

> Power 1.0 to 400.0 Watts RMS 0.1 Watts ± 5% Reading or ± 3 Watts (whichever is greater)

<u>Current</u> 20 to 2500 mA RMS 1 mA ± 2.5% Reading or ± 15 mA

Limits 10 kHz to 10 MHz 1.4 to 500 10,000 V Peak

#### **Loads**

50 to 750 Ohms 50 Ohms ± 1% (DC) 50% (1 minute Period)

200 Ohms ± 1% (DC) 225 Watts

1 to 500 Ohms 1 Ohms ± 2% or ± 2 Ohms (whichever is greater) Enclosure

Weight

Power Supply

Voltage

Frequency

Battery

Display

Ventilation

Oscilloscope Output

Setup Memory Memory Retention Operating Range Storage Range Humidity Limit Connections 83 to 264 VAC

**Electrical** 

Physical

6.0" x 13.5" x 12.0"

< 17 lbs (7.7 kg)

9 VDC 3A Output

High Impact Plastic, UL 94 V-0

Kycon 3 position locking connector

Face-Lexan, Back Printed

47 to 63 Hz

Sealed Lead Acid 6 VDC, 7.2 AH

General LCD Graphical 256 x 64 Pixels, Backlight

Internal Fan, variable speed Over temperature protected Fan rotor sensor

Isolated (uncalibrated), BNC Connector EEPROM, All Parameters 10 years w/o Power 15 to 35 Degrees C -20 to 60 Degrees C 90% Non-Condensing Oscilloscope: BNC Communications USB, DB9 Loads: 4mm safety sockets

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