

# EA-100

## Energy Analyzer

## Technical Specifications



## Overview

The Energy Analyzer EA-100 is a portable, easy to use Data Recorder. Perfect for single phase or three phase site energy consumption analysis and basic power quality monitoring. The EA-100 supports standard wiring configurations including; 1P2W, 1P3W, 3P3W, 3P4W and 2.5 elements.

PV11 Software is supplied with the EA-100 allowing data to be transferred to an external computer for later analysis and record keeping.

### Precision

- 6 Channel Energy Analyzer
- 32 Samples/cycle
- Data storage memory (up to 1GB)
- Ruggedized, Weatherproof, Lightweight & Compact
- NIST Traceable Calibration
- Safety 600V CAT IV
- PV11 Data Analysis software
- Customer Site Data Records maintained in WATT-Net Plus™
- 3 Year Warranty & Radian Technical Support

### Application

- Customer Complaints Handling
- Energy Management & Load Monitoring

## Portable and Easy to Use

Radian Research, Inc.  
www.radianresearch.com

3852 Fortune Drive  
Lafayette, Indiana 47905

phone 765-449-5500  
fax 765-448-4614

### Power Supply

**V1 Service Voltage:** 90 – 750 VAC, 0 – 400 Hz

### Measurement Accuracy

**Voltage:** V1, V2, V3 0 – 600 VAC 0.2% of reading + 0.2% of Full Scale

**Current:** I1, I2, I3

0 – 1 VAC/DC (Clamp) 0.1% of reading + 0.1% of Full Scale + CT Accuracy

0 – 100 mVAC (Flex Probe)

1 – 18 A 0.02A + 0.5% of reading

18 A – 180 A 0.2A + 0.5% of reading

180 A – 2500 A 2A + 0.5% of reading

### Measurement

**Sampling Speed:** 32 samples/cycle (45 – 65 Hz)

**Display:** 240 x 64 LCD Monochrome

### PowerView Software

**Min. PC configuration:** Operating System - Windows XP, WIN 7/8, USB interface

### I/O

**PV II Communication:** Compact Flash

### Internal Clock

**Accuracy:** ± 0.05 seconds

**Drift:** ± 0.5 sec/day

### Recording

**Storage Rate:** 1, 5, 10, 15, 30 seconds, 1, 5, 10, 15, 30 minutes

**Memory:** 1 GB Compact Flash

### Power Supply

**Power Supply:** 100 – 600 VAC 50/60 Hz 7VA

**Battery Run Time:** 24 hours

### Environmental

**Operating Temperature:** -20°C to +60°C, Storage -20°C to +70°C.

**Humidity:** Max 80% relative non condensing

**Altitude:** Max 2000m/6500 ft

### Safety

**Approval:** IEC 61010-1, CAN/CSA-C22.2 600V CAT-IV

**Pollution:** Degree 2

**Dimensions** - 9.25" (25.4 cm) L X 7.5" (19 cm) W x 5.0" (12.7 cm) H

**Weight** - Approximately 5 lbs (2.27 kg)

**Warranty** - Three year limited warranty, excluding battery pack. Extended Warranty is available.

ORDERING INFORMATION	Radian Part #	Model	Description
	8900100	EA-100	Energy Auditor, 600V CAT IV, 120V Power Cord
	8900200	EA-100-KIT	EA-100 Software on USB Flash Drive, 1G Memory Card (2), USB Card Reader
	8900201	EA-100-4-20	Set (3) 20" Flex CT
	8900202	EA-VOL-004	Set (4) 6' fused voltage leads for EP R/Y/B/BK - 1 jumper

In addition a wide variety of clamps, flex probes and cables are available, contact your sales representative for details.

