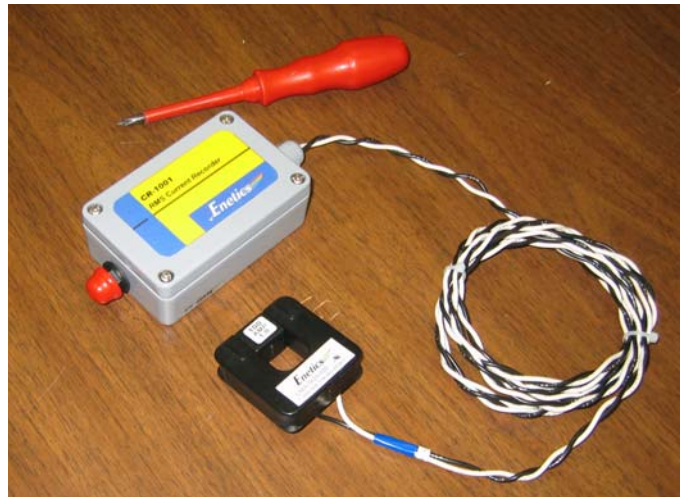


**CR-1001/CR-1002/CR-1003**

***Practical Load Monitoring Features:***

- Measure and Store Load Current Profiles
- View Real-Time Readings Numerically
- Single (CR-1001), Two (CR-1002), or Three (CR-1003) Phase Loads
- Battery Powered; No Voltage Connection
- Installs in Minutes
- Fully Isolated to Cat III, 1000 V.
- Up to One Year of Storage Capacity
- Interval Data From 1 Second to 2 Hours
- Accepts wide range of CTs for measuring 1000's of amps
- NEMA 4X; IP65 Weatherproof/ Ruggedized For Field Use
- Small (3.75"x 2.5" x 1.5"): Fits Inside Service Panel
- Database/Analysis Software Included Can Aggregate Multiple Recorders
- CE Certified
- 3 Year Warranty



The CR-1000 Series Current Recorders offer 1, 2, or 3 channels of True RMS current profile recording in a fully isolated, rugged, battery powered unit that's small enough to fit almost anywhere.

These recorders are intended for attaching directly to a specific circuit or load to trend RMS current flow to the load over time. A wide range of interval durations from 1 second to 1 hour is selectable by the user. For each interval, the minimum, maximum, and average RMS current can be measured and saved in battery-protected memory. Storage duration capacity varies with the number of channels and interval size selected by the user. In a typical example, a single channel unit set for 15 minute intervals has a storage duration of 700 days.

The recorders come complete with a split-core CT for each channel that is calibrated together with the recorder for excellent end-to-end accuracy. Ease of fitting the split-core CT to the conductor together with the recorder's small size and absence of connection to a power source make installation quick and easy.

The long-life Lithium battery will keep the single channel unit operational for up to one year without replacement. A rechargeable battery may be used together with an external charger to minimize battery costs.

The recorders also have the capability to perform real-time RMS current readings that can be viewed by connecting to the recorder with a laptop computer.

These recorders provide practical load monitoring needs by providing the key features required by your front-line personnel and at an attractive price.

## Software

Enetics' Software is provided with each CR-1000 series current recorder. Key features of the Software Utilities include:

- Full SQL Database With Built-In Query Dialogue
- If preferred, a File-Based Data Archive
- Ethernet/Internet-based Real-Time Data Access
- Browser-based Internet Access To Trended Data
- Analysis Engine built on Microsoft Excel™ kernel
- Auto-Formatting of Data Reports for Simplified Analysis With Full User Customization Supported
- Drag-Zoom Into A Specific Portion Of A Chart
- Compatibility with Enetics' Line of Energy Monitoring and Power Quality Recorders



## Specifications

### Detection:

$\Delta\Sigma$  for Extremely Linear Response (0.02% Linearity Error)  
True RMS Measurements and Recording  
Crest Factor Up To 4  
Frequency Response Up To 20kHz (Detects Effects Of Up To The 256th Harmonic.)

### Channels:

- 1 (CR-1001)
- 2 (CR-1002)
- 3 (CR-1003)

### Range:

CT Dependent (10ma-10,000A)

### Memory

All Settings Non-volatile. Data requires battery.

### Typical Data Storage Capacity:

15 Min Interv/1 Channel: 700 Days min.  
15 Min Interv/2 Channels: 350 Days min.  
15 Min Interv/3 Channels: 233 Days min.  
Software shows recording time at setup.

### Sample Rate/Response Time:

½ Cycle RMS Resolution

### Accuracy:

±0.1%  
ANSI C12.16

### Recording Interval:

User Selectable: 1 sec., 15 sec., 1 min., 5 min., 7.5 min., 10 min., 15 min., 30 min., 1 hr.

### Communications

Serial Port to 57.6 kbps

### Power:

3.6v AA Lithium (1 Year Battery Life in CR-1001)  
Rechargeable LI-Ion Battery can be used with external charger

### EMC:

EN55022 Class B Radiated

### Environmental/Physical:

CE Certified

Operating Temp Range:

-20°C to +85°C

Size:

3.75" x 2.5" x 1.5"

Environmental:

(95.3mm x 63.5mm x 38.1 mm)  
NEMA 4X

