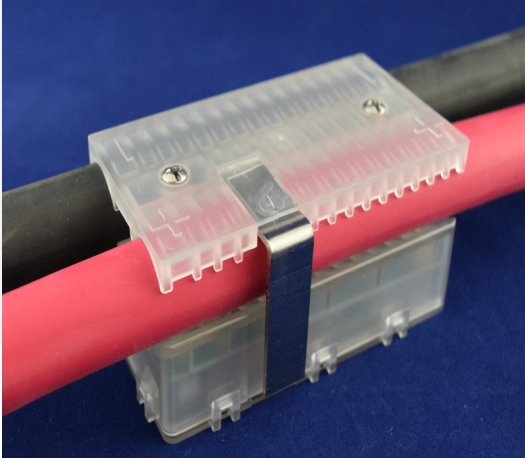# Power Usage Sensor



- Capture a complete, accurate record of charge and discharge activity for a motive power battery.
- No need to remove connectors or attach wires to battery terminals. Simple wireless installation takes less than two minutes.
- No software configuration. Sensor adapts to battery for accurate measurement.
- Onboard storage for more than six months of detailed usage data
- Battery backup insures data integrity.

The Nergy Sense Power Usage Sensor makes collecting detailed usage data quick and easy.

The sensor requires no wires and no software configuration. Patent Pending hardware and software designs enhance the installation and use of the sensor. Attach the sensor to the battery leads in less than 2 minutes, with no removal of connectors and no wiring.

Voltage, Current and Temperature is automatically collected and stored onboard, with a capacity of up to 6 months. *No configuration is required*.

Use the free PC software to download and analyze Power Usage Sensor data.

Wireless communications make data collection simple. Collect data with the sensor connected to the battery, or later after removal. An on board battery protects against data loss.

PC reporting software highlights key values in the data. Export capabilities support custom reporting and analysis.

No sensor configuration is required. Using Nergy Sense patent pending software architecture, the PC software provides all necessary configuration after data is collected.

# Power Usage Sensor

## Ordering Information

**NS-002-KIT**   Power Usage Sensor Kit, includes sensor, communications dongle, 12V Power Supply and reporting software.

| Specification | Description |
|---|---|
| **Voltage Measurement** | |
| Voltage Range | 0 - 120 Volts DC |
| Supported Battery Voltage | 12 - 96 Volt |
| Voltage Accuracy (at 25 degs C) | 0.25% |
| **Current Measurement** | |
| AHR Measurement Scheme | On board Current IC with Ferrite |
| Amp Range | +- 460 Amps |
| Amps Measurement Accuracy (at 25 degs C) | +- 3%, +-3 Amps < 100A |
| Non Linearity | 0.2% |
| **Temperature Measurement** | |
| Measurement Scheme | Internal Sensor |
| Accuracy | +- 4 degs C (after 10 minutes operation) |
| Operating Temperature Range | -15 to 70 degs C |
| **Mechanical** | |
| Packaging | Designed to IP66, IP67 Rating standards<br>Acid Proof<br>UL 94V-0 |
| Dimensions | 99.5 x 58 x 43.5 mm |
| **User Interface** | |
| On board LEDs | 3 - visible through case report status |
| Communications | Wireless 915Mhz<br>Optional power line comms |
| **Battery Data Storage** | |
| Recording Frequency | Configurable: 1 to 1024 seconds |
| On board storage capactiy | 61 days at 30 second frequency |
| **Reporting Software** | |
| PC Software | Windows 7 / 10 compatible<br>Sensor management features<br>Built in reports<br>Built in charts |
| *Specifications subject to change without notice* | |