

# Power

## PowerAgent Remote Battery Monitoring



PowerAgent

- › Intelligent site controller monitors up to 6 strings of 40 batteries (240 total batteries)
- › Low power consumption minimizes runtime impact
- › Monitors 2V or 12 V cells (with appropriate sensor)
- › Monitors string and cell voltage, admittance, individual cell temperature, ripple current and float current for a comprehensive, real-time picture of the state of health of your battery bank

The PowerAgent™ battery monitoring system from Alpha provides detailed, real time information on batteries, reducing unnecessary, costly truck rolls and ensuring actual outage backup times are not unknowingly compromised by degraded batteries. Scalable up to 6 strings of 40 batteries each, the system provides detailed information on every battery, from float and discharge current to individual cell temperatures and string voltages. This, and a wealth of other information (including alarms) can be monitored directly via SNMP. Alternatively, alarms can be monitored via the Cordex™ Controller with optional Remote Output Modules (ROMs) from Phoenix.

## PowerAgent

### Electrical

#### Site Controller Unit:

Sensors: .....20-60Vdc  
 Power consumption:.....5W @ 20-60Vdc plus 5W  
 (if 12V source used at max load)

#### Sensors:

Power requirements: .....2 volt: 1.65-3.0Vdc  
 12 volt: 8.0-16Vdc  
 Power consumption:.....2 volt: <15ma nominal, 2/5A during  
 admittance test  
 12 volt: <15ma nominal, 5/7A during  
 admittance test

#### Rim Modules:

AC line measurement: ....90 to 140Vac, RMS, Sine, 50/60Hz



### What Pieces Make Up The System?

The PowerAgent BMS has three components:

**Sensors:** A sensor is attached to the terminal posts of each monitored battery. The sensors measure the battery's admittance (internal resistance), voltage, and post temperature

**A Site Controller:** The site controller communicates with each of the sensors and collects the most recent measurement data. It checks each measurement against locally stored alarm thresholds and alerts the user's monitoring software if an abnormality occurs. The site controller is fully Ethernet TCP/IP compatible, and has a built-in web server and SNMP interface.

**Monitoring Software:** The PowerAgent BMS system, with its native standards-based SNMP interface, is the only battery monitoring system that gives the user 'freedom of choice' to select the optimum software for the application.

### Mechanical

#### Sensors (2Volt)

##### Battery Interface

Battery positive: Ring terminal with 12" wire  
 Battery negative: Bracket or ring terminal with 12" wire

#### Rim Modules:

##### Dimensions:

mm:.....68.6W x 81.3H x 25D  
 inches:.....2.7W x 3.2W x 1D

Weight:.....0.11kg (0.25lbs)

### Environmental

#### Site Controller Unit:

Operation:.....-45 to +65°C

#### Sensors:

Operating range: .....2 volt: -40 to +80°C  
 12 volt: -40 to +80°C

Heat dissipation: .....<94 BTU per hour

### Communications

Site Controller Unit:.....SNMP via TCP/IP  
 USB (X4)

#### Sensors:

##### Communications

Interface .....2 volt: Optically isolated RJ-45 (1200 volts)  
 12 volt: Optically isolated RJ-45 (1200 volts)

### Software options include:

- No software – The site controller's internal web interface provides information for all components connected to the Site Controller.
- Lookout™ Software provides a global view of multiple installations with the ability to "drill in" to details. Lookout™ is provided at no charge.
- Continuity SBL enterprise-class battery system monitoring and analysis package provides predictive trending information and can manage thousands of battery sites.
- Any software that supports an SNMP interface.