

SC Mini Controller SCMiniB



- Built-in SNMP proxy agent implements industry-standard MIB
- No special software licenses or expensive controllers required
- Built-in web server allows convenient read-only monitoring from any computer on the network
- Built-in SMTP mail client sends alarm messages to another computer email addresses or to a mobile phone.
- Option for ultra low- cost solution by eliminating the sensors (monitoring battery voltages only)
- Fully downloadable operating firmware
- Provides power to external device (i.e. cable modem), eliminating extra power module
- Built-in “watchdog timer” option resets external modem in event of a modem “hang”

The Phoenix Broadband Technologies PowerAgent SCMiniB is the first in a series of low cost controller options designed to dramatically lower cost and provide battery health and cabinet/hut facility monitoring capabilities.

The SCminiB can be equipped with either an eight battery wiring harness or a battery sensor option. The eight battery harness allows for the lowest cost solution monitoring, battery string and individual battery voltages. Using the battery sensor option provides additional battery measurements including ohmic measurements and individual battery temperatures. Both solutions offer facilities and cabinet monitoring capabilities.

The control unit connects to a network switch, router or Cable\DSL\cellular modem via an Ethernet connection. Among the facilities parameters monitored are AC line voltage, equipment AC load current (optional), moisture (optional), controller internal temperature, two monitorable digital inputs and one controllable digital output.

The PowerAgent controller typically obtains its operating power from the battery string being monitored and supplies a 12 VDC output to power a companion cable\DSL\cellular modem, thus eliminating the need for a separate modem power unit.

The PowerAgent has a built-in SNMP proxy, a built-in web server, and a built-in SMTP mail client. The SNMP proxy supports IEEE/ SCTE HMS MIBs making the PowerAgent compatible with virtually any management system. HMS traps are generated based on alarm conditions defined using the HMS property MIB. The built-in web server allows the status of the monitored batteries to be analyzed from anywhere in the network using a common web browser. This eliminates the need for expensive client application software licenses. Near real-time monitoring and alarm provisioning are available via standard web browser or software. The built-in SMTP mail client can be set up to send alarm messages to another computer (via email addresses) or to a mobile phone when an alarm occurs.

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Specifications

Analog Readings:

- AC input voltage; 0 to 140 VAC; true RMS
- Battery string voltage; 0 to 60 VDC
- Individual battery voltage; up to eight batteries
- Individual battery admittance (w/sensor option)
- Individual battery temperature (w/sensor option)
- Mini controller internal temperature (tracks ambient)

Control:

- User configurable, intelligent battery balancing

Digital Status:

- Two general purpose digital inputs

Digital Control:

- One general purpose digital output

Options:

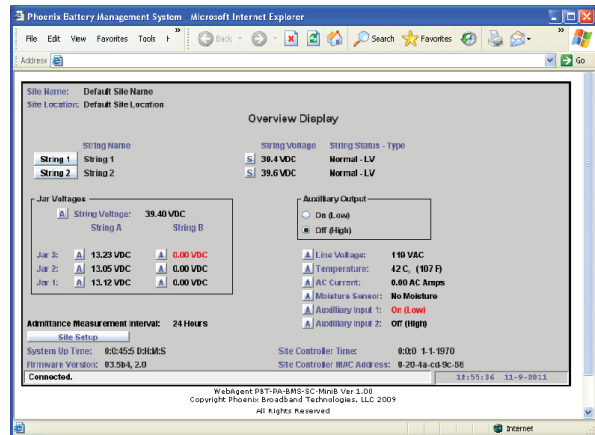
- AC load current; 0 to 20A RMS
- Moisture sensor

Power:

- DC input power 24-59 VDC; 7 W maximum (including modem)
- Modem output power 12 VDC nominal; 0.5 A typical

Environmental:

- Temperature -40 °C to +80 °C
- Humidity 0 to 95%; non-condensing



Optional Equipment

- PBT-PAC-8BATT (Eight battery harness)
- PBT-PAC-SCminiB-CT (AC current sensor)
- PBT-PA-MS-1 (Moisture sensor)
- PBT-PRG-USB (Programming adaptor)
- PBT-PA-BS3B-12-x-EQ (Battery sensor)
- PBT-PA-SI-B (Sensor interface)



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TECHNOLOGIES

Preliminary data subject to change. Rev 2.0

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