



## Battery Monitoring System



### Product Description

This battery monitoring system 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 battery monitoring system 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 battery monitoring system 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 battery monitoring system 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 battery monitoring system 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 a 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 mobile phone when an alarm occurs.

## Features & Benefits

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 volt-ages 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"

## Specifications

Analog Readings	Specification
AC input voltage:	0 to 140 VAC; true RMS
Battery string voltage:	Plastic, Flame Retardant ABS
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	Specification
User configurable:	intelligent battery balancing

Digital Status	Specification
Digital inputs:	two general purpose digital inputs

Digital Control	Specification
Digital outputs:	one general purpose digital output

Options	Specification
AC load current:	0 to 20A RMS
Sensor:	moisture sensor

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

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



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