



Western Systems

Innovative Transportation Solutions

REMOTE BATTERY MONITORING SYSTEM PLUS

Real-Time Measurement and Control



- Compact, intelligent and cost effective system for determining battery condition remotely
- Monitors each individual 12V battery via a user programmable schedule, from hourly to monthly
- Intelligent battery balancing extends the life of the battery string and reduces maintenance costs
- Automatic data logging function records individual battery voltage, temperature and admittance
- Enables the scheduling and budgeting of battery replacements
- Built-in web server allows for convenient read-only monitoring from any internet-connected computer

The Remote Battery Monitoring System (RBMS) Plus 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 2 strings of 4 batteries each, the system provides detailed information on every battery, from admittance to individual battery temperatures and string voltages. This, and a wealth of other information (including alarms) can be monitored directly via SNMP. Unit has a built-in SNMP proxy, a built-in web server and a built-in SMTP mail client.

RBMS Plus typically obtains its operating power from the battery string being monitored, this eliminates the need of a separate power source. Optional parameters that can be monitored are AC line voltage, AC equipment load current and moisture. It is designed to dramatically lower cost and provide battery health remotely and with convenience.



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48Vdc 1 String: P/N: 0370260-002

48Vdc 2 Strings: P/N: 0370260-003

Electrical	
Site Controller Unit:	Voltage: 21 – 59Vdc Power Consumption: 7W
NOTE: Power is supplied from the battery bank	
Sensors:	Voltage: 12V: 8.0 – 16Vdc Power Consumption: 12V: <10mA nominal, 0.5/6A during admittance test
Mechanical	
Site Controller Unit Dimensions:	mm: 32H x 104.15W x 120.15D inches: 1.26H x 4.1W x 4.73D
Weight:	0.242kg (0.53lbs)
Sensors (12V):	<ul style="list-style-type: none"> Two-wire connection with max bolt size for terminals of 5/16 inch Mounted to the top of the battery with self-adhesive industrial Velcro strip CAT5 cable used to daisy chain from sensor to sensor Last sensor in the daisy chain connects to String 1 for the first battery string Last sensor in the daisy chain connects to String 2 for the second battery string
Power Harness Cable Connection:	<ul style="list-style-type: none"> Connects to the 48Vdc battery string + (Red) and – (Black) terminals
Optional Accessories	
Equipment	P/N
AC Output Current Sensor:	7400583
Moisture Sensor:	7400162
120V AC wall transformer, for monitoring utility power voltage:	0180059
Two Wire Sensor, High Current*:	0180055
Battery Cable to Power RBMS Controller*:	8701040
*included with 0370260-002/003 kit	

