

FEATURES

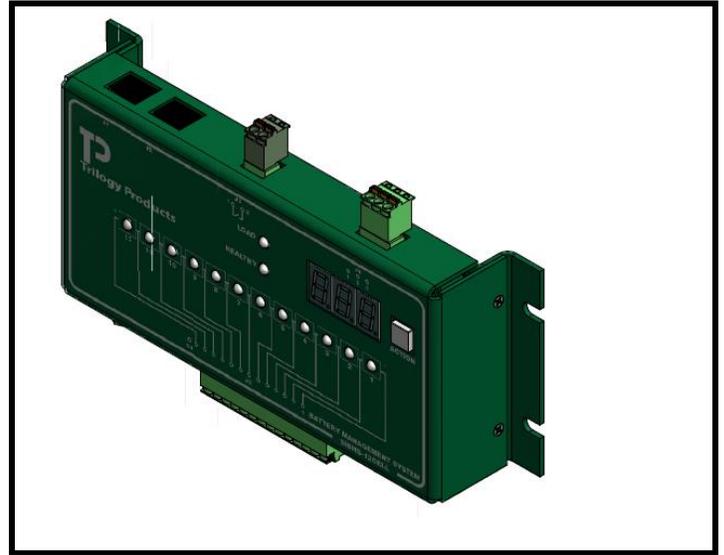
- Networkable Monitoring of Battery
- Manages up to 12 Cells
- COM Port Connection to Charger
- 12 Bi-Color LED's for Cell Health
- 3 Channel Display for Cell Voltage
- Relay Contact for Alarm Function
- Meets AREMA C Standards

DESCRIPTION

The Trilogy Battery Management System (BMS) meets all the AREMA Class C standards for temperature, shock and vibration, EMC and dielectric strength.

The Trilogy Battery Management System (BMS) allows the user to monitor a battery bank (up to 12 cells), either Lead Acid or NiCad.. The BMS accepts inputs from a series string of battery cells and passes that information to any Trilogy Battery Charger through a COM Port. Each battery cell is monitored individually and logged via the Trilogy Battery Charger. The BMS will determine whether or not a battery cell is out of range and then activates a relay contact to indicate an alarm. The battery charger will immediately log the alarm and send to back office via Ethernet.

The Trilogy Battery Charger and BMS can present their information in real-time through an Ethernet Port and a PC Application. The system utilizes an internal data logger to provide information to the user remotely whenever desired. A technician can see the status of 12 Bi-Color LED's on the front panel of the BMS. Each LED corresponds to a cell. If the LED is green, the corresponding cell is within an acceptable range and if it is red, the cell needs further examination. In addition to the LED's, three 7 segment displays will indicate the actual cell voltage (i.e. 2.25 as an example). The 7 segment display scrolls through all connected cells. The Bi-Color LED will flash to denote which cell is being displayed. A "Freeze" button is provided so the user can lock the display to continuously monitor a particular cell.



At times it is desirable to provide an external load for testing of the battery. The BMS provides an interface to an external load (Part # SiBMS-LOAD). This load allows for the battery to be tested remotely if desired. If the battery is fully charged and not under load, the user can perform the test to determine if the AH rating of the battery is acceptable. With the BMS system, this can be done on location, remotely or a programmed interval. The BMS provides an LED that is on when the load is engaged. The built-in data logger in the Trilogy Battery Charger will then store the results of the test and/or provide an alarm if the battery test does not pass.

ELECTRICAL SPECIFICATIONS

Input Voltage (provided by Trilogy Charger).....	10-19VDC
Maximum Input Power	6W
COM Link	Differential 422
Maximum Cells Monitored.....	12
Maximum Cell Voltage.....	2.8V
Min Operating Temperature.....	-40°C
Max Operating Temperature	+70°C
Alarm Relay Contact Rating	2A

MECHANICAL SPECIFICATIONS

Height	4 in
Width (exclude's mounting tabs).....	8 in
Depth.....	1 in
Weight	4 lbs

ORDERING INFORMATION

Item	Catalog Number
Battery Management System	SiBMS-12CELL

