



BMS-icom 12 Volt Battery Monitoring System

Model # BMS-icom



Eagle Eye's **BMS-icom Battery Monitoring System** is designed to measure the aging status of up to (4) 12V jars by measuring and recording: string voltage and current, as well as jar/cell voltage, internal resistance, connection resistance and temperature. The BMS-icom is the most accurate, user-friendly and economic solution for monitoring 48VDC systems using (4) 12V batteries.

The BMS-icom 48VDC battery monitoring system comes complete with Eagle Eye's Centroid Battery Management Software package which allows all battery systems to be monitored 24 hours a day, 365 days a year via a remote computer. Centroid provides real-time battery monitoring and string/cell trending with reporting capabilities. String trending reports provide system resistance, voltage,

temperature, and voltage/ohms comparison. Cell trending reports provide battery/connection resistance, voltage, and temperature. Custom alarm settings can be configured per string.

The BMS-icom Battery Monitoring System Includes:

- BMS-icom MPU Body
- Clamps: O-Type for cable connection or C-Type for bus-bar connection
- Sensing cable (current line)
- Signal cable (voltage line)
- Temperature cable
- Total voltage current cable
- Control power cable
- Centroid Battery Management Software
- User Manual

Reduce maintenance costs, improve up-time and manage your battery assets effectively by using the BMS-icom battery monitoring solution for your 48V system. Traditional battery testing and battery monitoring methods perform the most crucial test - ohmic value - periodically. Eagle Eye's battery monitoring systems can monitor the ohmic value of all your jars (cells) multiple times each day, due to the fact our systems inject a minimal, non-intrusive current. Protect yourself from battery failures - one of the

leading causes of facility downtime, with the BMS-icom Battery Monitoring System. Real-time battery monitoring protects the user from costly downtime, data loss, and security risks. Real-time battery monitoring also reduces maintenance and replacement costs by maximizing your battery life.

If you are testing a system different than a 48VDC using 12V batteries see Eagle Eye's **iPQMS Battery Monitoring System** that can monitor up to 448 jars (or 448 cells). Eagle Eye's **BDS-Pro** measures 24 jars (or 24 cells).

Technical Specifications	Advantages	Applications
Technical Specifications		
Battery Types:	VLA (Vented Lead Acid/Wet Cell), VRLA (Valve Regulated Lead Acid), NiCad (Nickel Cadmium), & Others	
Battery Capacity Range:	Up to 6000 Ah	
Cell Voltage:	12 VDC	
Accuracy:	DC Voltage / Current: $\pm 0.5\%$ / $\pm 1\%$ Temperature: $\pm 2\%$ Internal Resistance: $\pm 2\%$ Cell Voltage: $\pm 1\%$	
Resolution:	AC Voltage / Current: 0.1 V / 0.1 A DC Voltage / Current: 0.1 V / 0.1 A Cell Voltage: 10 mV Internal Resistance: 0.001 m Ω Temperature: 0.5 $^{\circ}\text{C}$	
Test Speed:	3 – 4 seconds per cell	
Test Load:	Less than 2 A per cell	
Measuring Interval:	Adjustable from 5 min to 24 hours (voltage & resistance)	
Data Transfer:	TCP/IP, SMS	
Bandwidth Use:	Less than 3 Kbps (Kilobit per second) peak	
Connections:	Ethernet, RS-232, RS-422	
Operating Environment:	Temperature: 0 – 65 $^{\circ}\text{C}$ (32 – 150 $^{\circ}\text{F}$) Relative Humidity: Under 80%	

Power Requirements:	44 VDC (from connected batteries)
Dimensions:	140 x 121 x 44.5 mm (5.5 x 4.75 x 1.75 in)
Weight:	70 g (1.5 lbs)

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