

W-BMS

Wireless Battery Monitoring System for VRLA batteries



COOLV187A

Technology

- > Radio frequency

Technical advantages

- > Easy to use
- > Easy to set up
- > Trend analysis to guard against breakdowns
- > Remote monitoring
- > Remote alarm notification
- > Data acquisition
- > Analysis software

The three W-BMS components

- > **CU (Control Unit):**
 - Collects and stores the DAM and IDAM data.
 - Manages the communication with the PC.
 - Sends SMS/E-Mail notifications.
- > **DAM (Data Acquisition Module):**
 - Measures the voltage, the temperature and the internal resistance of each battery.
 - Stores the most significant data.
- > **IDAM (Current Acquisition Module):**
 - Measures the current of either a battery or a string of batteries.
 - Stores the most significant data.

The battery is a key component in the operation of a UPS

W-BMS, the SOCOMEC Battery Monitoring System, is an effective battery monitoring solution which maximizes the availability of the supply in applications where power continuity is vital.

Because 75% of uninterruptible power supply (back-up power supply) system breakdowns are down to batteries, the reliability of these components is a key feature of your electrical system. Therefore, accurate, detailed monitoring of their operating condition is vital. This actually guarantees maximum continuity of the supply to the system's critical loads, loads which cannot tolerate even a brief interruption let alone a prolonged power cut.

Anticipate malfunctions

W-BMS is a vital tool in the continuous supply of critical systems and performs preventative battery monitoring.

This solution provides the opportunity to eliminate any unscheduled power cut due to battery failure.

Make cost savings

W-BMS enables you to make operating savings by:

- Improving UPS uptime.
- Reducing maintenance operations by 75%.
- Maximizing battery return on investment.
- Anticipating battery malfunctions.
- Guaranteeing the safety of maintenance personnel.

Ensure the continuity and safety of the supply to critical loads

It is vital to always know the operating status of the lead acid batteries supplying critical applications. W-BMS ensures that these are in good condition and will work when you need them. Unlike other battery monitoring systems, W-BMS has been specifically designed to monitor the impedance of the different battery monoblocs every day. By avoiding the time-consuming and potentially dangerous manual method of testing individual batteries, W-BMS increases the likelihood of identifying a power failure and greatly increases the safety of maintenance personnel.

