

Discover the Power of BMS Solutions

OREON7 Battery Monitoring System

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A Product of



Revolutionizing Battery Monitoring with Oreon7

The Oreon 7 battery monitoring system is a sophisticated electronic device designed to optimize the performance, safety, and longevity of batteries. By continuously monitoring and analyzing various key parameters, it provides valuable insights and alerts to users, ensuring reliable and efficient battery operation.

Battery Parameters Monitored

Cell Voltage	Cell Impedence	Cell Temperature	Electrolyte Level	SOC & SOH	String Current	String Voltage	Earth Fault Detection	Ambient Temperature	Ripple Voltage	Ripple Current
Records individual voltage of the battery with high-tech measurement methods	Accurately measures the internal resistance of the battery with various advanced algorithms.	Measures the cell temperature at every instance of negative polarity for each battery.	Measures the Electrolyte level for the Lead Acid and NiCd batteries. (Optional)	Provides the strong insights of battery state of charge and state of health by advanced computations.	Measures the String level current. The String current defines the profiling of the states of the system.	Voltage Sensor measures the string voltage from the batteries. (Optional)	DC earth fault detection identifies insulation failures where positive or negative conductors contact ground. (Optional)	Measures the ambient temperature of the battery room at specific point.	Measures ripple voltage at block level.	Measures ripple current at string level.

BMS Benefits

- Downtime Prevention**
 Production stoppage reduced, increase in safety and higher savings on annual preventive maintenance
- Thermal Runaway Prevention**
 Prevents hazardous situations like overcharging, over-discharging, overheating, or short-circuiting. Monitors and mitigates risks such as thermal runaway
- Increase Shelf Life of Battery**
 Monitors and controls charging cycles to minimize degradation. Maintains cells within safe operating parameters, reducing wear and tear
- Minimizing Carbon Footprint**
 The assigned support team or individual investigates the reported issue or fulfills the requested service.
- Cost Savings**
 Reduces long-term costs by prolonging battery life and improving energy efficiency. Prevents the need for frequent replacements or emergency repairs.
- Data Logging & Analytics**
 Tracks battery performance metrics over time. Aids in diagnosing faults, identifying trends, and optimizing usage patterns.

BMS Features

- Intelligent Charging & Discharging Profile
- Data Logging & Analysis
- POE powered Sensors
- OREON7 Suite Package & HMI Options
- Real Time Monitoring
- Early Warning System
- Centralized Remote Monitoring & Control
- Alarms & email | mobile Notifications
- TCPIP / SNMP / RS485 Redundant Communications

Knowing Battery Analytics

Integrating smart diagnostics into battery monitoring systems can greatly improve energy efficiency. By leveraging data analytics and machine learning, these systems can identify performance trends and potential issues early on. This predictive maintenance approach allows for proactive interventions, minimizing downtime and ensuring that batteries consistently operate at their best. Keeping the systems running efficiently not only boosts performance but also optimizes energy consumption.

High accurate algorithms with intelligence