



Franklin Electric
GRID SOLUTIONS



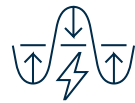
 **CELLGUARD**

**WIRED BATTERY
MONITORING SYSTEM**



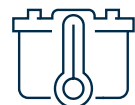
WIRED BATTERY MONITORING SYSTEM

The CELLGUARD™ wired battery monitoring system (BMS) delivers economical, yet highly accurate and reliable remote health analysis of stationary batteries in all stationary power backup applications. Comprised of a control module, battery sensor modules, one or more string sensor modules, and a current transducer, the system provides continuous 24/7 monitoring of key battery performance indicators, to help ensure performance and uninterrupted uptime when it matters the most.



INTERNAL RESISTANCE TESTING AND PERFORMANCE TRENDING

The BMS tests a given battery's internal resistance at a pre-determined interval. The results are then collected and presented as a trend providing the user with genuine DC power plant performance insight.



NEGATIVE POLE TEMPERATURE

Rising battery temperature may be an indication of degrading battery performance. The wired BMS delivers 24/7 temperature monitoring for real-time thermal runaway alerts.



DISCHARGE EVENTS

Battery discharge events are recorded automatically (including battery voltage, string voltage, discharge current and discharge capacity). When operating in a discharge state, BMS data collection rates increase dramatically.



STATE OF HEALTH

A battery's remaining state of health is routinely and automatically monitored.



CONTROL MODULE CAPACITY

Max batteries on a single string: 300
Control module string maximum: 6
Control module battery maximum: 360

CONTROL MODULE



BATTERY SENSOR MODULE



STRING SENSOR MODULE



PARAMETER AND ALARM THRESHOLDS

The user can set / modify many measurement parameters and thresholds either locally or remotely. The system invokes a permission hierarchy to manage administrative access.



DATA STORAGE

The Control Module will record critical performance elements including alarms and discharge events.



COMMUNICATION PROTOCOLS

The Control Module can communicate via RS485, Ethernet, MODBUS/RTU, MODBUS/TCP, and SNMP protocols. Data derived from the BMS is easily integrated into most third-party systems.



WEB CONFIGURATION

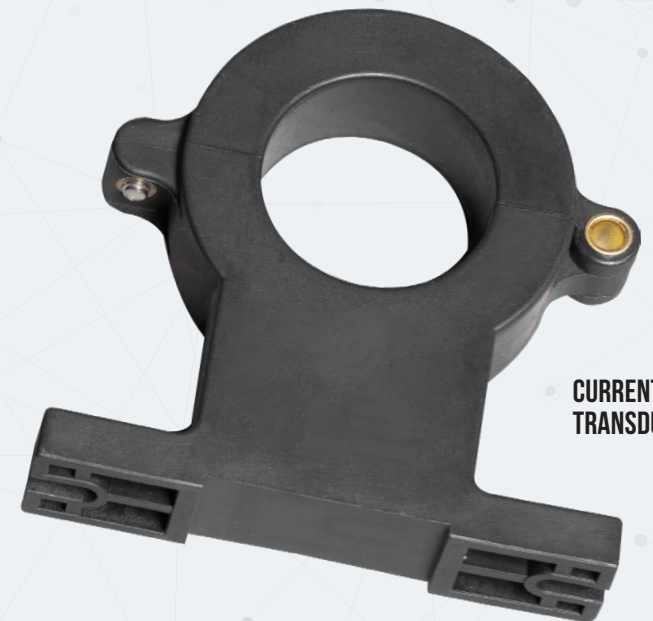
BMS settings and system reports can be remotely managed via the web interface.



SOFTWARE

Local and network versions of CELLTRAQ enable convenient multi-string and multi-site management.

The wired BMS is ideal for all small and large mission-critical DC power plants including UPS, data center, rail / subway, airport, telco, utility power generation, utility substation, and manufacturing, as well as fire and safety systems.



CURRENT TRANSDUCER





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