



Franklin Electric
GRID SOLUTIONS



**WIRED BATTERY
MONITORING SYSTEM**

CELLGUARD

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The CELLGUARD™ Wired Battery Monitoring System (BMS) delivers economical, yet highly accurate and reliable remote health analysis of stationary batteries in applications with high electromagnetic noise. Battery operators are provided with continuous 24/7 monitoring of key battery performance indicators to help enable proactive maintenance, ensure battery performance, and deliver uninterrupted uptime when it matters the most.



STATE OF HEALTH

The BMS helps analyze data trends related to battery state of health, simplifying the detection of potential issues for operators to optimize battery usage.



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.



DISCHARGE EVENTS

Battery discharge events are recorded automatically (including battery voltage, string voltage, discharge current and discharge capacity).



EASY INSTALLATION

The system's commissioning time is minimized through the CONVERGE™ Web Interface setup tool which guides users to complete required fields and the ability to save and redeploy configuration details across sites.



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.



BASE COORDINATOR UNIT



BATTERY SENSOR

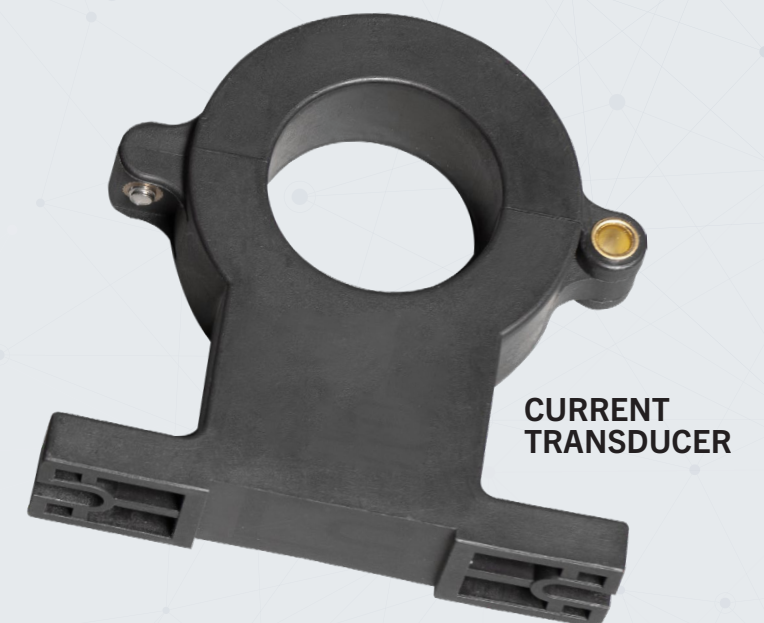
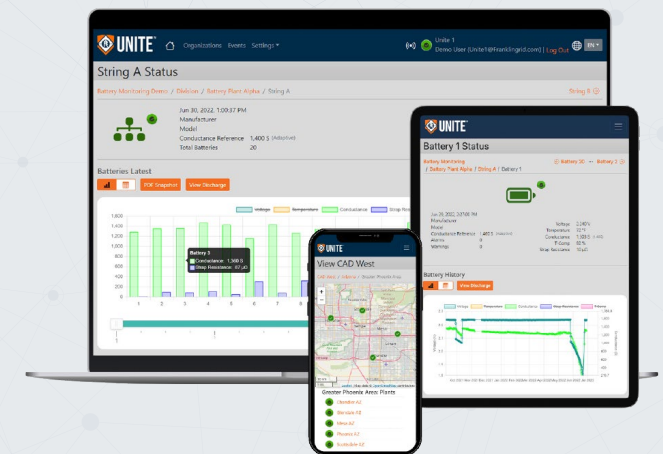


STRING SENSOR



ASSET MANAGEMENT DATABASE

A secure MQTT communication protocol allows the BMS to safely communicate with the web-based UNITE™ Asset Management Database. UNITE™ provides user-friendly access to all battery performance data for convenient centralized analysis and reporting arming service and maintenance personnel with a consolidated view of an entire network of battery health and performance data.



CURRENT TRANSDUCER

