

Nominee: NDSL Group Limited

Nomination title: Cellwatch Battery Monitoring

Cellwatch is a state-of-the-art battery monitoring system designed specifically to prevent unplanned downtime due to UPS battery failure. It utilizes the latest fiber optic technology to provide rapid, noise-free transmission of information on battery health. The modular system continuously monitors the entire battery system, including string and cell level voltage, ohmic value, current and temperature throughout the charge, discharge, and float periods. Advanced Cellwatch software delivers immediate on-screen warnings of battery deterioration, identifying any individual battery that exhibits problems—allowing for a proactive approach to ensuring UPS reliability. Cellwatch includes advanced graphing features that enable users to view and compare multiple battery parameters simultaneously for accurate and immediate visibility into battery health, and to monitor the reliability of their backup power by predicting future battery performance. The Cellwatch system provides the necessary data to base UPS battery replacements on the battery's actual condition, not simply on how long it's been in use, helping avoid premature and unnecessary replacement. Automated controls accelerate the installation process and eliminate the chance for human error. Simplified data management and reporting tools streamline battery alarm management.

The concepts behind the Cellwatch system are accuracy, flexibility, ease of installation, safe use and operation. Cellwatch can be installed on new or old batteries. Its modular design allows the system to fit applications of any size and configuration -- from hundreds to thousands of batteries -- and can monitor several separate battery systems simultaneously -- UPS, switchgear, generator. Cellwatch has prevented major UPS failures in mission critical facilities and high-profile data centers by detecting failing batteries months before they became an operating risk, and even detecting thermal runaway in some cases. Cellwatch creates a safer environment by automating the process of determining battery health. With Cellwatch, there is no exposure to high voltages that exists with manual testing. A recent survey conducted by the Ponemon Institute cited the most frequent cause of data center outages as UPS battery failure. When a company invests in a Cellwatch system they immediately eliminate the cost of a potential outage, reduce their preventive maintenance expenses by 75%, and extend the life of their batteries by delaying the expense of premature replacement. When compared to the costs of premature battery replacements and preventive maintenance, Cellwatch pays for itself in less than three years. For more than 20 years, Fortune 100 companies, government agencies and hundreds of other organizations around the globe have relied on our advanced battery monitoring technology to prevent unplanned outages due to battery failure. The Cellwatch system is widely chosen over other systems because it is more accurate and reliable, providing daily battery monitoring with an ultra light load that causes no battery degradation, it's ease of use, installation and scalability.

Why nominee should win

- Safer, more accurate – Using the best technology, Cellwatch diminishes false positives and is fiber optic based for inherent safety and better performance. UL/CE.

- Modular, scalable – Cellwatch is simple to install and use. All system configurations use the same parts allowing for easy expansion/reconfiguration across battery rooms or buildings.
- Unmatched reliability – MTBF of almost 30 years ensures long-term investment protection.
- Commitment to end-users/partners - We are straightforward in our business relationships, are easily accessible and quick to respond.
- We provide expert-level training and support, continuously refine our technology to benefit the end-user, and solicit end-user input when creating software upgrades.