

Perfecting the Art of Electronics

ALPS®

ALPS Electric Ireland, Ltd.



The Challenge

ALPS Electric Ireland, Ltd., a manufacturer of electronic sensors, modules and switches, needed to increase their manufacturing efficiencies and improve the percentage of devices that passed quality assurance (QA) testing. As an example, the company typically switched paint thinners on a seasonal basis in an attempt to identify through trial-and-error which change yielded improvements. This process resulted in an increase in failure rates and, hence, increased costs.

The Solution

The IoT systems integrator and software development firm, **Action Point**, was tasked with providing a solution. Using a distributed network mesh of B+B Wzzard™ wireless sensors, all data was communicated back

through to a **Dell Edge Gateway** powered by an Intel® Atom™ processor. Using Dell Statistica on Intel® Xeon® processor-based systems, ALPS could look for correlations between sensor data and outcomes on the factory floor, such as failure rates and throughput.

The Results

After implementing the traceability system to capture environmental information, ALPS was able to predict a failure before it happened, avoiding unnecessary downtime and failures. The environmental data also highlighted a previously unknown training issue that caused regular humidity spikes and temperature dips: machinery was being opened at unplanned times causing quality issues. The new level of management visibility allowed this to be improved. ALPS now has full visibility into the functionality of their factory floor. Powerful insight capability makes them more efficient than ever and is a strong enabler for testing and measuring continuous process improvement.

Vendor Partners

