

Emerson's Smart Wireless Technology Improves Throughput By Up to 10% at AOC's California Resins Manufacturing Facility

BENEFITS

- Secure, self-organizing wireless network eliminates clipboard rounds
- Staff safety improved by continuously monitoring resin batch temperatures



CHALLENGE

AOC is a leading global supplier of resins, gel coats, colorants, and additives for composites and cast polymers. AOC was looking for a solution to ensure proper mixing of intermediate resin products with micro-additives at target temperatures to achieve customer-specific formulations and quality.

SOLUTION

Eight Rosemount® wireless temperature transmitters continuously check batch temperatures, sending that real-time data to a Smart Wireless Gateway integrated with the plant's DeltaV™ digital automation system. The company uses Emerson's AMS® Suite predictive maintenance software to manage the devices, which enables technicians to configure them, run diagnostic checks, and monitor alarms and alerts.

AOC chose reliable Smart Wireless technology because it required minimal wiring, the wireless transmitters can easily be moved from one location to another, and it was more cost-effective than wired technology. Set up and commissioning of the network was quick and easy, taking only 12 hours.

RESULTS

Emerson Process Management's Smart Wireless technology is continuously monitoring resin batch temperatures at AOC's Perris, California facility to enable better process control with up to 10% improved throughput, and increased employee safety.

Smart Wireless eliminated clipboard rounds that were an inefficient use of operators' time, subjected personnel to a safety risk, and lengthened the time to market. If staff found the temperature was not at target, it required additional time and resources to heat or cool the mix tank to the target temperature before adding temperature dependent micro-additives or loading the product. By replacing manual sampling with on-line measurements, AOC was able to decrease cycle time up to 10 percent. They also improved operator safety, and freed up staff time to improve other areas of the plant.

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Tou Moua
Product Engineer, AOC

For more information:
www.EmersonProcess.com/SmartWireless

