

Success Story

Monitoring Pressure for Stamping Press and Injection Molding

The Problem

A customer that makes washing machines and dryers had been using manual diagnostic testing for its manufacturing process, a majority of which includes hydraulic-based assets. Two pieces of equipment in particular – an injection molding machine and a stamping press – are driven by the same hydraulic power unit (HPU).

The HPU is located 20 feet off the floor at the top of the machines. To diagnose each asset, a maintenance technician must use a manual diagnostic device connected to the HPU to collect pressure changes at several points of interest. A second technician would be on the floor watching the operations of each machine.

Technicians must test several points individually, which takes hours. Because the manual diagnostic devices have long cords that connect the sensors to the readers, technicians must shut down a machine to take readings, leading to extended downtime and lost revenue.

SensoNODE™ Blue is Parker's series of Bluetooth-powered sensors. Compact, energy-efficient, and wireless, they are designed to provide simple and useful solutions for diagnostic and condition monitoring applications. SensoNODE Blue Sensors monitor assets to help predict problems and prevent downtime, and delivers the information to your mobile device.

Voice of the Machine™ Mobile App gives access to machine and process measurements right on your mobile device. The user-friendly interface makes connecting to sensors uncomplicated and measurements easy-to-read. With customizable dashboards and alarms, you can focus on the data that's most important to you and be alerted when your measurement thresholds are exceeded. Exporting of data is done with a click of one button, which sends a .csv file right to your email.

The Solution

The customer needed a solution that allowed a single maintenance technician to test all points simultaneously and take readings from the floor, where he could also observe asset processes.

By installing wireless SensoNODE™ Blue Sensors at each of the five points of interest, the technician is able to run the machine and use the Voice of the Machine™ Mobile App on his mobile device to track all pressure levels simultaneously, as well as watch the machine function.



Success Factors

One technician can perform diagnostics, reducing needed man-hours.

SensoNODE allows technician to identify problems in minutes, maximizing uptime and reducing lost revenue.

Technician can install the wireless sensors closer to points of interest than he was able to with wired sensors, providing more accurate readings.

When used with the Voice of the Machine Mobile App, user-defined alarms warn of dramatic pressure drops or spikes with alerts appearing on a user's mobile device.

Customer Value

Because the equipment manufacturers are in Europe and other countries, maintenance technicians have to take different time zones into consideration when ordering replacement parts and don't always have hours to spend just diagnosing an issue. Being able to monitor multiple points at the same time simplifies the troubleshooting of a complex system, helping technicians to place orders quickly to minimize downtime and save money.



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