

Success Story

Safely Monitoring Machine Pressure and Temperature

The Problem

An injection molding customer that makes plastic parts for clothes washers had no convenient way to monitor pressure levels for its 50+ machines. Diagnosing a pressure issue meant creating a diagnostics hose for each pressure valve on a machine, connecting the hose to an EMA coupler, snaking it around the machine to avoid pinch points, and connecting it to a manual gauge at the control box.

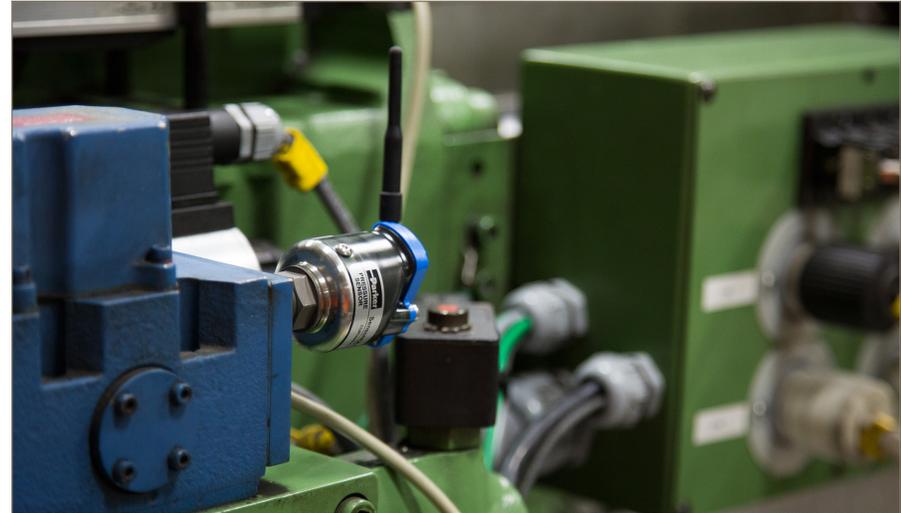
One worker would hold the gauge for the maintenance technician, who would run the machine while reading the gauge. The random locations of pressure valves require multiple lengths of hose, which means a single machine could have a dozen different hoses. Because the gauge uses a needle, readings are approximations and not 100% accurate.

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

Installing a wireless SensoNODE™ Blue Pressure Sensor allowed a single technician to monitor condition levels with the Voice of the Machine™ Mobile App downloaded to his mobile device while operating the machine, eliminating the hose and the gauge. The customer also installed a temperature sensor to monitor those levels simultaneously.



Success Factors

Wireless sensors eliminate diagnostic hose assemblies, allowing for quicker feedback and analysis, and improved safety.

Digital readout ensures accurate readings, including pressure/temperature spikes.

Small sensors with flexible antennae fit in hard-to-reach areas of the machines.

Can track analytics in real-time or historic trends.

Alerts of dramatic drops/spikes appearing on a user's mobile device.

Customer Value

With SensoNODE Sensors and Voice of the Machine™ Software, technicians can monitor asset conditions easily and in less time.

Accurate readings help technicians trend machine performance, which helps them establish better preventive maintenance routines. And with one technician doing the work of two, the system helps save on labor costs.



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