

# Success Story

## Monitoring Pressure in Hydraulics Pump Room

### The Problem

A customer that produces specialty metal products had been monitoring the pressure levels of its hydraulic pump room using glycerin-filled gauges. This system required a worker to manually check the gauges once at the beginning, and once at the end of each of the facility's three shifts.

Standard pressure gauges have downsides. The dial doesn't allow for exact pressure levels and the gauges do not account for the level trends between the times that the gauges are being checked.

Thus, sudden drops or spikes in pressure go unnoticed, and can have disastrous effects on the customer's equipment, from overheating and equipment inefficiency, to eventual breakdown. The customer needed a solution that allowed workers to check the pressure levels of the hydraulic pumps more efficiently, but also track and trend the levels throughout the day.

**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 purchased and installed SensoNODE™ Blue Sensors on the hydraulic pumps and used the Voice of the Machine™ Mobile App installed on workers' mobile phones. The system has allowed workers to track and trend data that had previously been lost, catching all of the sudden fluctuations typically gone unnoticed. Monitoring is also a simpler process, allowing workers to download readings and email the information to the next shift.



### Success Factors

Tracking and trending of data allows workers to quickly address any issues before they escalate.

Workers can easily install and wirelessly gather readings from the hydraulics pump room.

Information gathered with the Voice of the Machine Mobile App can be downloaded and emailed to the next shift, making it easier to share more accurate information.

When used with the Voice of the Machine Mobile App, alarms warn of dramatic pressure drops or spikes.

### Customer Value

Because the customer produces high-grade metals, an hour of downtime can cost hundreds of thousands of dollars. Being able to track and trend condition levels helps the customer keep things running to minimize unplanned downtime. They are already considering installing SensoNODE Blue Sensors on their pneumatic equipment.



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