



# Metal Forming and Fabrication

Advanced Diagnostics with SensoNODE™ Blue Sensors and SCOUT™ Mobile Software

Hydraulic or mechanical tools used in metal fabrication, such as riveters, lathes, stampers, and slide and roll formers, require exact working conditions to maintain optimal product quality.

SensoNODE™ Blue sensors and SCOUT™ Mobile software offer an advanced diagnostics and condition monitoring solution that catches performance fluctuations with these tools, and allows users to diagnose issues before they escalate.



### Problem

Any inconsistencies in asset temperatures can have damaging effects, including:

- Overheating assets
- Reduced precision
- Long-term asset damage

### Solution

Installing temperature sensors on job-critical assets helps users to:

- Track real-time data on their mobile device
- Monitor ambient temperatures
- Diagnose in-line temperature issues



### Problem

Incorrect pressure levels for any hydraulically or pneumatically driven tools and assets can lead to:

- Overload or failure
- Overworked assets
- Decreased operation efficiency

### Solution

Sensors can detect the slightest change in pressure and relay that information to a user's mobile device, which will:

- Alert users to any pressure drop
- Allow workers to diagnose issues early
- Reduce scrap and rework



### Problem

In-line and ambient humidity can lead to moisture in critical assets, causing:

- Corrosion and rust
- Increased dew point in compressed air lines
- Increased wear of moving parts

### Solution

Humidity sensors monitor in-line and ambient humidity levels, allowing users to:

- Track gradual trends of increased facility humidity
- Better diagnose in-line humidity issues

## Contact Information:

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**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 monitors assets for changes in pressure, temperature, and humidity to help predict problems and prevent downtime, and delivers the information to your mobile device.



### Pressure Sensor Features

- For commonly used pressures with the ranges of (0-150 psi, 0-1500 psi, 0-3625 psi, 0-5800 psi, 0-8700 psi) [10 bar, 100 bar, 250 bar, 400 bar, 600 bar]
- User definable measurement units (psi/bar) for convenient and familiar data readings
- Ports: MNPT, SAE, couplings (push-button, sleeve operated, EMA3) to make plumbing and connecting easier and faster
- Corrosion resistant materials for challenging environments
- Sensor also provides temperature values
- User selectable scan and transmit rates (mode dependent). Currently 1, 2, 5, and 10 seconds. Refer to SCOUT Mobile for the up



### Temperature Sensor Features

- Available in a unique clamp design for quick attachment to pipe or hard tubing
- User definable measurement units (F°/C°) for convenient and familiar data readings
- Ports: NPTF and SAE to make plumbing and connecting easier and faster
- Corrosion resistant materials for challenging environments
- User selectable scan and transmit rates (mode dependent). Currently 1, 2, 5, and 10 seconds. Refer to SCOUT Mobile for the up to date capabilities and modalities



### Humidity Sensor Features

- 0-100% relative humidity
- Ideal for ambient condition and inert compressed gas monitoring applications
- Ports: NPTF to make plumbing and connecting easier and faster
- Corrosion resistant materials for challenging environments
- Should be mounted vertically.
- Sensor also provides temperature values.
- User selectable scan and transmit rates (mode dependent). Currently 1, 2, 5, and 10 seconds. Refer to the SCOUT Mobile for the up to date capabilities and modalities

**SCOUT Mobile software** allows users to connect their mobile devices to the SensoNODE sensors and receive diagnostic data and analytics. SCOUT Mobile compiles the data and presents it in a way that makes sense to a user's operation, allowing them to track data in real-time and also review historic trends.

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