



Condition Monitoring for Predictive Maintenance

SensoNODE™ Blue Sensors & **SCOUT**™ Mobile Software

Pressure, Temperature and Humidity Sensors with Mobile Monitoring



ENGINEERING YOUR SUCCESS.

Industrial Internet of Things (IIoT) is changing the way manufacturing works, and **your company** can set the pace.

As global competitiveness drives companies to find new ways to improve efficiency and product quality, not reviewing your processes and plants for opportunities with IIoT leaves your company standing still while others move forward.

Traditionally, improving efficiency means monitoring certain pieces of equipment or processes one at a time and keeping track of their conditions. This can be an inaccurate, labor-intensive process that takes up valuable man-hours and creates potentially dangerous situations for workers...in short; it costs companies time and money.

Parker's approach to the Industrial Internet of Things (IIoT) is enabling new possibilities in condition monitoring and predictive maintenance. Through wireless connectivity, customers have access to both real-time and historical data for a comprehensive picture of their system's performance.

With SensoNODE Blue and SCOUT Mobile working in tandem, users benefit from an advanced condition monitoring solution that catches performance fluctuations and records the data in both real-time and historic trends. By rapidly diagnosing problems before failure, users can employ predictive maintenance routines that allow them to address even the smallest issue before it snowballs into a serious problem.

Utilizing Bluetooth® Smart connectivity, SensoNODE Blue sensors monitor and record data that's transferred to SCOUT Mobile's easy-to-use interface, giving users vital analytics on a system's pressure, temperature, and humidity. This allows users to:

- Identify issues before they escalate
- Reduce downtime
- Decrease maintenance costs
- Avoid dangerous situations
- Improve labor efficiency
- Record better information for better decision-making

SensoNODE Blue Sensors

Designed to eliminate the challenges of traditional monitoring and diagnostics in everyday applications, SensoNODE Blue wireless sensors monitor your assets for changes in pressure, temperature, and humidity to help you predict problems and prevent downtime.

Our energy-efficient sensors are a vital part of your condition monitoring for predictive maintenance strategy. Small in size and easily installed, SensoNODE Blue sensors can be placed in challenging environments and are compatible with a wide range of applications.

The sensors collect and transmit condition data for your job-critical assets, helping you to extend machine life and predict failure before it occurs.

Why Blue?

- Consistent and accurate readings for Pressure, Temperature, and Humidity
- Diagnostics mode to collect streams of data for analysis
- Beacon mode gives measurements and charts to any user within range
- Easy wireless connection process
- No power supply needed
- Compact, lightweight design
- Robust use in harsh environments
- LED indicator aids in identifying sensor status
- Each sensor is uniquely identifiable for association with assets or processes
- Remote monitoring with Bluetooth® Smart Technology, so no special device is required to read the information



Identify Issues before they Escalate

Even the smallest issue can snowball into a serious problem if it goes unnoticed for too long, leading to decreased product quality, inefficient operation, and ultimately shutdowns and unplanned downtime.

With SensoNODE Blue and SCOUT Mobile working in tandem, users benefit from an advanced condition monitoring and diagnostics solution that catches performance fluctuations and records that data in both real-time and historic timeframes. Monitoring assets and tracking the data helps users to identify trends that can lead to potential performance changes – allowing for faster detection of problems and earlier, more accurate diagnoses of issues.

Better Information for Better Decisions

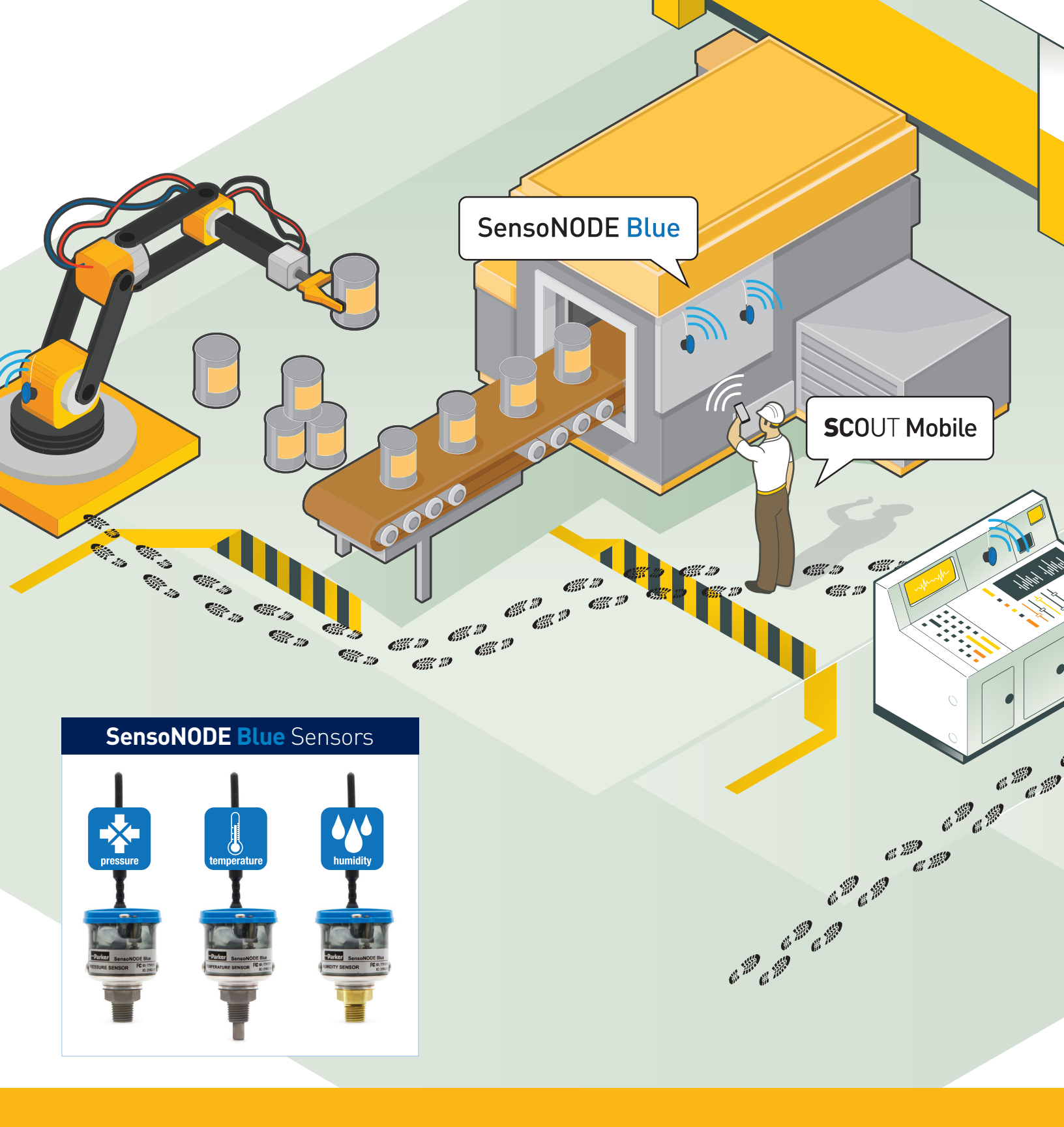
In addition to aiding in keeping maintenance costs down and helping to prevent unscheduled downtime, information from SensoNODE Blue sensors and Parker's SCOUT Mobile software can help users refine their processes and optimize their systems.

Being able to make data-driven decisions to ensure peak performance of assets and processes not only helps to maintain the highest level of product quality, but also extends asset life and protects your investment. Using SensoNODE Blue and SCOUT Mobile in tandem provides users with important, useful analytics to make more informed decisions on processes and the day-to-day running of facilities so you can maximize your ROI.

Avoid Dangerous Situations

Rotary machinery, continuous running manufacturing equipment, high-temperature and high-electricity areas can be difficult to monitor with traditional means. They can put staff in potentially dangerous situations without a costly shutdown. Parker's wireless solutions allow our sensors to be easily installed in potentially dangerous areas of the facility to help you achieve accurate diagnoses, keeping workers safe and allowing production to continue.

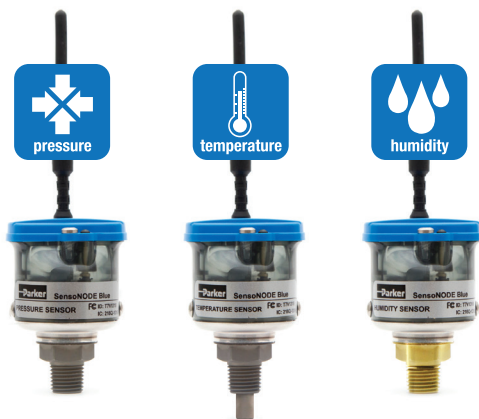
SCOUT Mobile software connects your mobile device wirelessly to one or more sensors that are within range, displaying live data, trending graphs, or user-defined alerts that signal when a certain condition rises above or falls below a certain threshold.



SensoNODE Blue

SCOUT Mobile

SensoNODE Blue Sensors



Reduce Downtime

When time is money, you can't afford to wait for something to break, nor can you waste time troubleshooting when a system goes offline. Pairing Parker's SensoNODE Blue sensors with its SCOUT Mobile software creates an efficient, accurate, and reliable solution that keeps you up and running.

Coupling SensoNODE Blue with SCOUT Mobile's simple and intuitive interface, users get a clear and accurate picture to diagnose their system's overall health, which helps them stay on-point with preventive maintenance to avoid unscheduled downtime.

Decrease Maintenance Costs

With more facilities working to meet lean manufacturing standards, it's imperative that companies employ efforts to save on energy and maintenance costs. With SensoNODE Blue sensors and SCOUT Mobile software working together, users can set customized alerts to forewarn them of any condition changes that could force a piece of equipment to work harder, thereby increasing energy use and wear.

Pairing SensoNODE Blue with SCOUT Mobile lets users easily view job-critical information to ensure their systems and equipment are running at optimum levels, and to make adjustments when needed to avoid costly maintenance.

Improved Labor Efficiency

With traditional monitoring, it takes a team of staff working to monitor each of your company's assets and processes over an extended period of time, expending man-hours and impacting your bottom line.

SensoNODE Blue allows fewer staff to quickly monitor more points of importance with increased accuracy, helping them to cover more ground in the same amount of time, or even faster. By collecting data in real-time across multiple points, workers can diagnose problems and take the guesswork out of predicting potential issues and addressing them before an asset develops a more serious problem, saving time and costs. Identifying and addressing these issues before they have a chance to impact the entire operation helps to maintain optimal quality and efficiency of your processes, thus increasing final product yields.

SCOUT Mobile Software

With an easy-to-use interface and compatibility with your mobile device, SCOUT Mobile puts vital information and analytics in the palm of your hand. Through wireless connection, SCOUT Mobile software compiles data collected by SensoNODE Blue sensors and presents it in a way that makes sense to your operation, giving you the analytics you need to optimize your assets' performance.

SCOUT Mobile also alerts users to unexpected condition changes that may damage components and equipment. As levels rise above or fall below user-defined thresholds, users are alerted to these events, giving them an opportunity to address potential issues that could harm the system over time.

With real-time and historic trends, users receive the vital analytics they need to address these changes before they cause problems, helping to reduce unplanned downtime and increase productivity.

Why Mobile?

- Automatic alert to system events
- Wireless monitoring
- Lower energy costs
- Reduced maintenance
- Address issues before they cause problems
- Real-time and historic trends for each sensor
- Compatible with most mobile devices
- Easy-to-use interface





Your complete source for quality tube fittings, hose & hose fittings, brass & composite fittings, quick-disconnect couplings, valves and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings:

Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles:

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability:

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe and Asia-Pacific.

For information, call

508-393-7660

The Hope Group

Branch Locations

Massachusetts

Fitchburg

Parker Store
58 Crawford Street
Tel: 978-342-6817
Fax: 978-345-7604

Northborough

Corporate Headquarters
70 Bearfoot Road
Tel: 508-393-7660
Fax: 508-393-8203

Weymouth

Parker Store
50 Finnell Drive, Unit 12-14
Tel: 781-803-2572
Fax: 781-812-2641

Rhode Island

Cranston

Parker Store
215 Niantic Avenue
Tel: 401-943-1577
Fax: 401-943-8808

Connecticut

North Haven

The Hope Group - No. Haven
350 Sackett Point Road
Tel: 203-269-1299
Fax: 203-891-7649

Maine

Bangor

Parker Store
257 Perry Road
Tel: 207-942-7475
Fax: 207-941-9875

Lewiston

Parker Store
14 Enterprise Street
Tel: 207-783-9108
Fax: 207-782-8634

South Portland

Parker Store
5 Wallace Avenue
Tel: 207-774-6266
Fax: 207-774-4735

New Hampshire

Manchester

Parker Store
880 Candia Road
Tel: 603-622-4998
Fax: 603-622-4667



The Hope Group
70 Bearfoot Road
Northborough, MA 01532
Phone: 508-393-7660
Fax: 508-393-8203
www.TheHopeGroup.com

ISO 9001:2008 Certified
ITAR Registered