# Challenge

Pressure sensing is one of the top sensor attributes identified as being of high value in condition monitoring. Similar to vibration, the applications are everywhere: pneumatic systems, fluid lines, compressors, pumps, and hydraulics. All these are high value or critical to an operation. Current available solutions that include long battery life can run up to $1,200+ with no real alternative… until now.

## Banner Wireless Value

- Simplicity—This compact device consists of a media isolated pressure sensor, a 900 MHz wireless Node, and a battery power supply. It integrates easily in applications where infrastructure, movement, or mobility make wired solutions impractical, ineffective, or cost-prohibitive.
- Cost-Effective—The all-in-one design makes it less expensive than purchasing a separate sensor and Node and eliminates the time, labor, and expense of installing separate sensors and Nodes.
- Versatility—All-in-one wireless pressure sensors make it easy to monitor and collect data from a single point or multiple points on critical systems throughout a facility. Users can deploy and redeploy a single all-in-one sensor multiple times or deploy multiple all-in-one sensors in a network.
- Increase Efficiency—The all-in-one wireless pressure sensor makes it easy to monitor system performance and health from any network-enabled location. Rather than having to send an employee to read gauges around your facility, you can monitor all pressure readings from a centralized location. Staff have access to timely, accurate data that can be used to make better, more informed decisions about their systems and strategically plan maintenance and service schedules based on actual need, as well as staff and resource availability.

## Key Applications

- Pneumatic systems
- Hydraulic systems
- Cooling systems
- HVAC systems
- Supply systems (tank level monitoring measuring head pressure)
- Leak detection
- Compressors

## Banner Wireless Pressure Sensor

- P14L Node combined with integral or 1 m cabled sensors
- Four pressure ranges:
    - 0–50 PSI (3.4 Bar) Gauge
    - 0–150 PSI (10.3 Bar) Gauge
    - 0–500 PSI (34.5 Bar) Sealed Gauge
    - 0–3000 PSI (206.8 Bar) Sealed Gauge **Coming Soon**
- 304 SS housing
- 17-4PH SS Media isolated diaphragm tested to 4 million cycles
- Five-year battery life (D-cell)
- Standard ¼-18 NPT fitting
- 0-5 VDC output
- 2X Proof, 3X Burst pressure ratings

| Part Number | Model Number | Description |
|---|---|---|
| 807006 | DX80N9X1W-PS50G | DX80 Performance Node w/ Integrated 0-50 PSI Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting |
| 807007 | DX80N9X1W-PS50G-NB | DX80 Performance Node w/ Integrated 0-50 PSI Gage Sensor 900 MHz 1W 1/4 in -18 NPT Senor Fitting No Battery |
| 807010 | DX80N9X1W-PS150G | DX80 Performance Node w/ Integrated 0-150 PSI Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting |
| 807011 | DX80N9X1W-PS150G-NB | DX80 Performance Node w/ Integrated 0-150 PSI Gage Sensor 900 MHz 1W 1/4 in -18 NPT Senor Fitting No Battery |
| 807014 | DX80N9X1W-PS500S | DX80 Performance Node w/ Integrated 0-500 PSI Sealed Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting |
| 807015 | DX80N9X1W-PS500S-NB | DX80 Performance Node w/ Integrated 0-500 PSI Sealed Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting No Battery |
| 807022 | DX80N9X1W-PS50G1 | DX80 Performance Node w/ Integrated 0-50 PSI Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting 1m Cable |
| 807023 | DX80N9X1W-PS50G1-NB | DX80 Performance Node w/ Integrated 0-50 PSI Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting 1m Cable No Battery |
| 807026 | DX80N9X1W-PS150G1 | DX80 Performance Node w/ Integrated 0-150 PSI Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting 1m Cable |
| 807027 | DX80N9X1W-PS150G1-NB | DX80 Performance Node w/ Integrated 0-150 PSI Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting 1m Cable No Battery |
| 807030 | DX80N9X1W-PS500S1 | DX80 Performance Node w/ Integrated 0-500 PSI Sealed Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting 1m Cable |
| 807031 | DX80N9X1W-PS500S1-NB | DX80 Performance Node w/ Integrated 0-500 PSI Sealed Gage Sensor 900 MHz 1W 1/4 in -18 NPT Sensor Fitting 1m Cable No Battery |