

Pressure Sensor Transceiver – PST 1200 & PST 2000



Battery-powered or with a mains adapter, the PST measures the air pressure at the most sensitive point of a pneumatic tool – in the engine compartment. Why? This is where the air pressure is directly linked to the performance of the impulse tool.

There are a variety of pneumatic torque controlled tools that accommodate high speed assembly. The very nature of high speed assembly creates opportunities for errors. Operators moving too fast can miss tightening some fasteners, attempt to tighten previously tightened fasteners, cross-thread, or release the trigger before final torque is achieved.

Benefits of the PST:

- Improves error-proofing by determining 'double hits' or when the tool is being used to tighten a fastener that is already properly torqued.
- Reduces costly mistakes by detecting cross-threaded fastenings.
- Provides greater safety and risk mitigation by disqualifying the rundown when the operator prematurely releases the trigger or lever before final torque is reached. (The fastener may look perfect to the naked eye, but in reality it is far from being properly torqued.)

The **PST 1200** functionality is simple: create a compatible standard fastener algorithm with time and air pressure specifications and store it in the Global 400 with which it is paired. Accuracy is guaranteed as the PST 1200 measures the air pressure in the engine compartment. It does not make sense to measure the air pressure at other points. Aren't there already enough variables in air pressure?

Log in to the **Global Manager** software, open the PST 1200 profile screen and drag the air pressure and time specifications until you have the desired pressure and time profile.

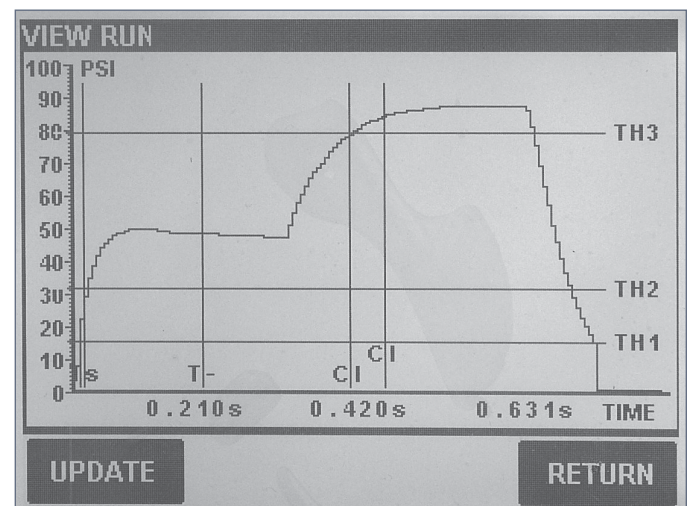
Screw on the fastening element and check the tightened torque. Changes to the profile are still made using drag & drop. Once the standard is created, the PST 1200 and the Global 400 process monitor work together to evaluate each subsequent fastening. The PST 1200 uses a radio transceiver to receive instructions and report the results. The Global process monitor provides visual and audible feedback on the results of each fastener.

The **PST 2000** uses a combination of three air pressure measurement thresholds and three timers to accurately create a standard conforming fastener. It then compares subsequent fastenings to the standard. The Global Series controller takes the streaming data from the fastening and creates an algorithm from which graphs are created.

The PST 2000 operates on either NiMH rechargeable batteries or alkaline batteries. Use NiMH rechargeable batteries when the work pattern involves consistent tightening of fasteners with less than 30 seconds between rundowns. Also available with AC power.

The PST pressure sensor transceivers provide a more robust assembly process for your pneumatic tools. It works with all clutch-based impulse tools. It does NOT work with impact wrenches. It also does NOT work with pneumatic 'push start' tools.

The PST series 2000 and series 1200 are designed for different process monitors / torque controllers. The former 1000 series has been replaced by the 2000 series and is intended for use with the Global 8. The 1200 series is designed for simultaneous use with the Global 400 / Global 400mp process monitor.



PST & Optional Accessories

Model	Part No.	Description	compatible with
PST 1200 BATT	R10514	Pressure Sensor Transceiver PST-1200, battery powered	Global 400, Global 400mp
PST 1200 Hardwired	R10515	Pressure Sensor Transceiver PST-1200, hardwired	Global 400, Global 400mp
PST 2000 BATT	R10499	Pressure Sensor Transceiver PST-2000, battery powered	Global 8
PST 2000 Hardwired	R10498	Pressure Sensor Transceiver PST-2000, hardwired	Global 8
PST Power Ext Cable 5	R21689	Power Extension Cable, 5 m	PST 1200, PST 2000



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The 2.4 GHz wireless modules in Sturtevant Richmond's products are Xbee Pro wireless modules that operate on the IEEE 802.15.4 wireless standard. These devices do not comply with the ZigBee protocol.

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