

Air Pressurized Sensor Option

For Extreme Cutting Tool Environments

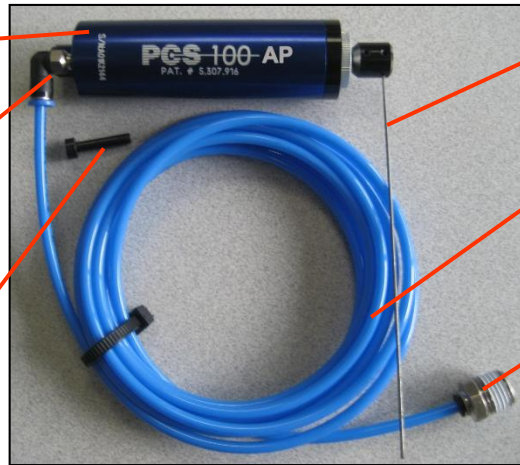
PCS-100-AP

Shown below with all included items

Sensor
PCS-100-AP sensor is a functional equivalent to the **PCS-100** – the only difference is the AP fitting

AP fitting
Quick connect fitting for Ø4mm air tube (90° standard, straight upon request)

Blanking Plug
Used during shipping to prevent contamination



Swing Arm Assembly
Including cap, cap seal, and 140mm (5.5") Maxi-life sensing needle

Ø4mm Low Pressure Tubing
3 meter (~10ft) length

Filter/Regulator fitting
Quick connect fitting for Ø4mm air tube and a ¼" NPT male connection to Filter / Regulator / Gauge (straight standard, 90° upon request)

PCS sensors are built to operate in tough metal cutting conditions; however, machining environments vary significantly. The material being machined, machine cleaning methods, coolant chemical composition, coolant pressure, coolant spray direction, coolant maintenance and machining envelope can all combine and contribute to problems.

The standard **PCS-100** & **PCS-250** have always been the choice for Tool Monitoring in *Harsh Environments*. In **Extreme Cutting Tool Environments**, we recommend using our **Air Pressurization (AP)** option. This option provides a very low pressurization of the sensor, keeping coolant spray and contaminants out. The AP option is available for both the **PCS-100** and **PCS-250** system. Please refer to PCS pricing information for details.

The AP option includes:

- A PCS sensor prepared with a quick connect (a.k.a. "push-in") fitting
- 3 meters (~10ft) of Ø4mm low pressure air tube
- An adjustable quick connect fitting with a ¼ male NPT for connection to customer supplied Filter / Regulator / Gauge, or the **AP-1000** Air Pressure Installation Kit shown on the next page





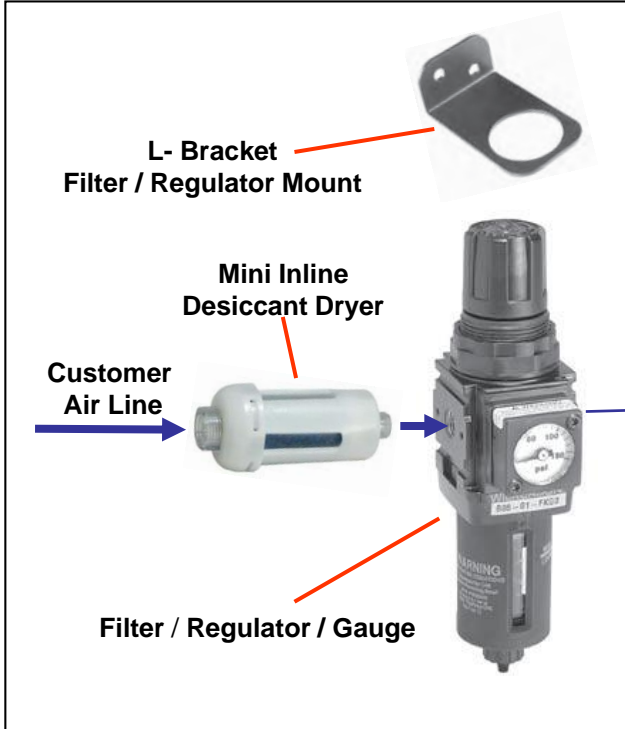
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For Extreme Cutting Tool Environments

Air Supply

AP-1000

Air Pressure Installation Kit



PCS-100-AP

Air Pressurized Sensor



Multiple Sensors

The illustration above is a single sensor application. If your application involves multiple **PCS-100-AP** or **PCS-250-AP** sensors on one machine, it is possible to use one **AP-1000** with up to four sensors by using a 2 port or 4 port fitting. Further details can be found on Page 2 of the **Instruction Sheet for Air Pressurized Sensors**.



2 port
Y Fitting



4 port
Double-Y Fitting



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