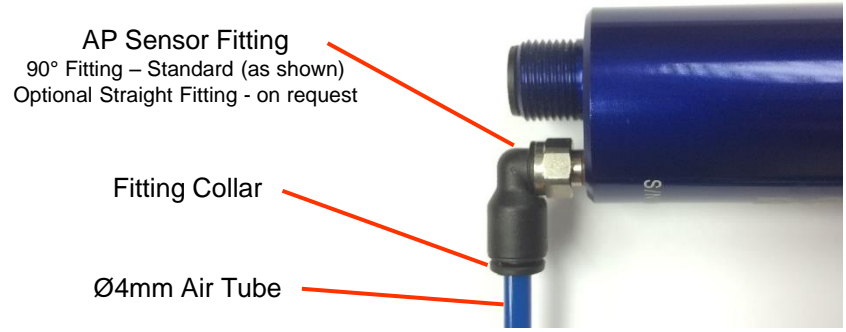


# Instruction Sheet for Air Pressurized Sensors (AP)

**Note:** The Air Pressurized (AP) sensor option is recommended for extreme cutting tool environments. These instructions are based on using an **AP-1000** Air Pressure Installation Kit.

- Install the PCS sensor in accordance with the **PCS-100** System Instructions or **PCS-250** System Instructions and the Safety First bulletin.

-The tube fittings provided are quick connect type. To insert tube, push the tube into the fitting to full depth. To remove tube, push the tube collar in and pull tube out. The AP Sensor Fitting located on the **PCS-100-AP** or **PCS-250-AP** sensor is shipped with a blanking plug inserted into the fitting. Remove the blanking plug and insert the tube. **To avoid contaminants entering the sensor, reinsert the blanking plug if the air tube is ever removed.**



- Install the Filter / Regulator / Gauge in the customary fashion outside of the machining area and machine enclosure and in accordance with the included manufacturer's Installation and Service instruction sheet. An L-shaped mounting bracket for the Filter / Regulator / Gauge is included with the **AP-1000**. Connect the provided ¼" NPT fitting into the Filter / Regulator / Gauge in the normal fashion. Cut the tube to the required length and insert the tube into the ¼" NPT fitting.

***PLEASE NOTE: This is a low pressure air connection installation requiring clean, dry air. Recommended regulator pressure is 1-4 PSI (0.07 - 0.28 bar), not to exceed 5 PSI (0.35 bar).***

- A supplemental inline desiccant dryer is included in the **AP-1000** to assist in removing remnant moisture and contaminants.



This is a disposable inline desiccant dryer, which should be replaced when the beads turn pink in color. Shut off air supply when installing or replacing. Remove both port plugs and install between air line and Filter / Regulator / Gauge. **All connections to the inline dessicant dryer should be hand tightened only.**

**Warning:** adhere to all safety labels. Dryers exposed to solvents and oils containing a chemical base may crack or rupture the product. Do not install inside the machine.

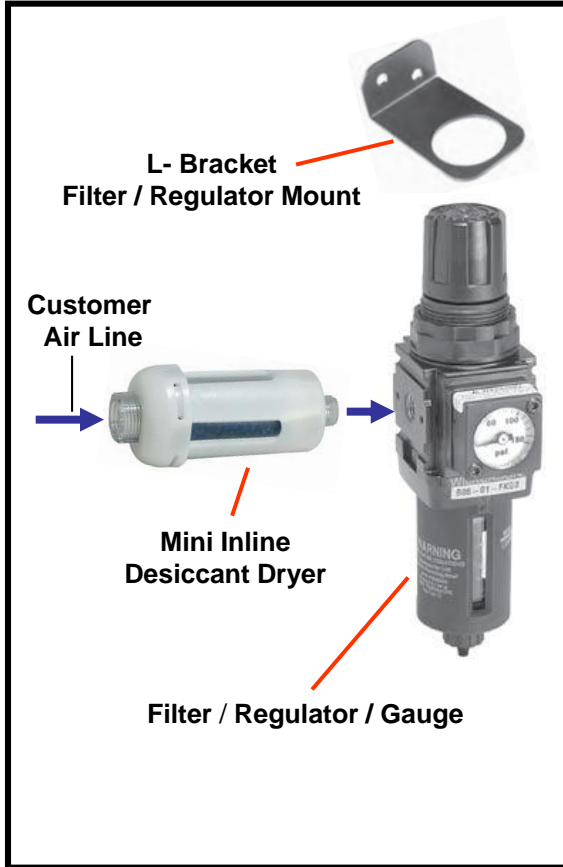
-Air Tubing: Cut the provided tubing as required for the application. See reverse side for various connection illustrations suggestions. Take care not to kink or over- bend the air tube.

-Due to very low pressure and flow, once the system is connected we recommend maintaining the air supply on, including periods for machine cleaning. Always avoid direct, concentrated air hose cleaning of the sensor, especially at the front end of the sensor as this can force contaminants into the sensor. Turn the air supply off if servicing any part of the system.

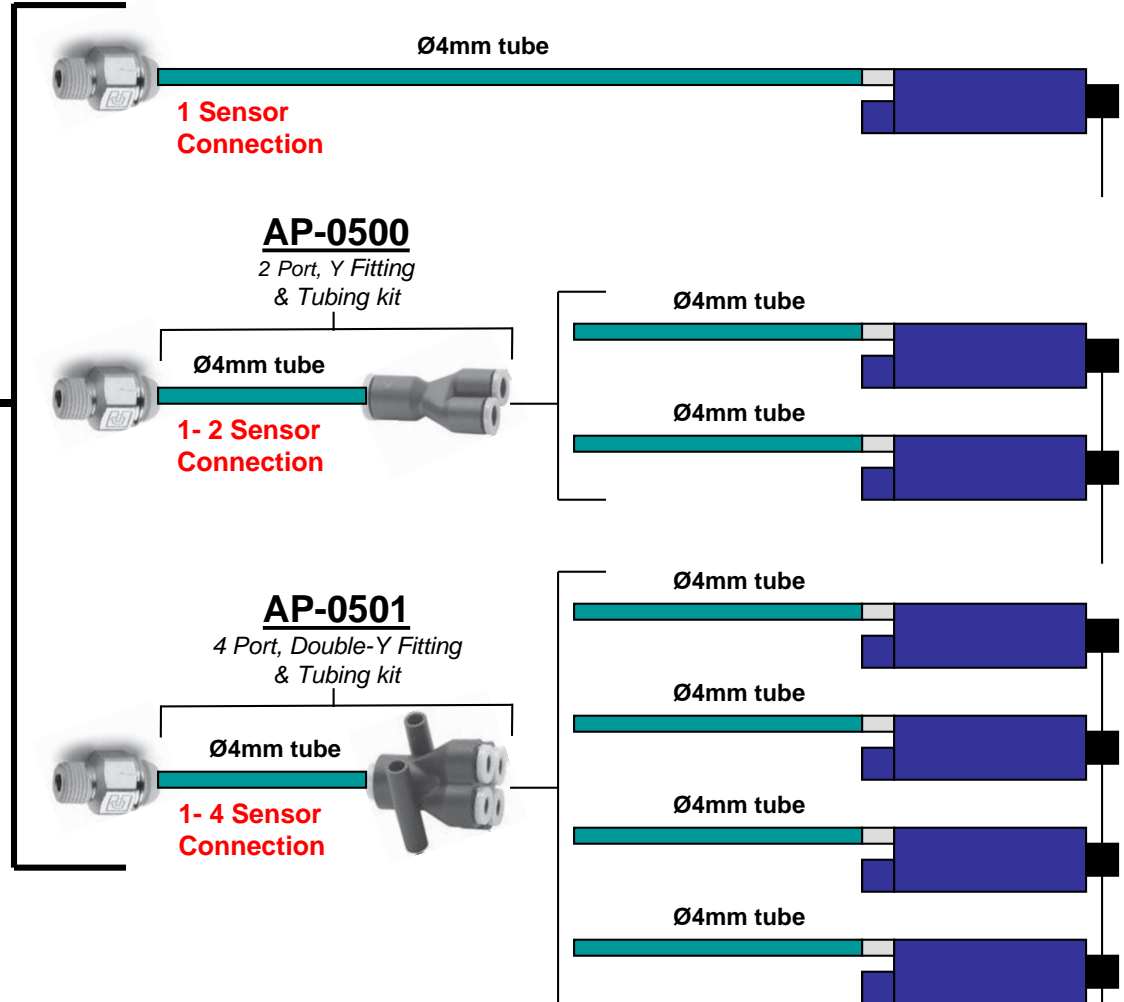
**Air Pressurized (AP) Sensor Connection Options** – Each **PCS-100-AP** or **PCS-250-AP** sensor is supplied with Ø4mm air tube and a ¼” NPT fitting for connection to the Filter / Regulator / Gauge. Some machines may utilize more than one AP sensor. One **AP-1000** Air Pressure Installation Kit, or customer supplied equivalent, can be used to supply up to four AP sensors as illustrated below. Two AP sensors can be accommodated by using the Y Fitting found in the **AP-0500**, while up to four can be accommodated by using the Double-Y Fitting from the **AP-0501**. If any Y or Double-Y Fitting ports are not utilized, block the unused ports with a blanking plug.

### AP-1000

*Air Pressure Installation Kit*



### Connection Options



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