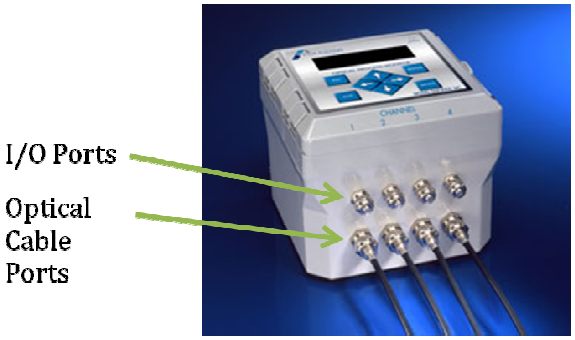
DSP4000 – Quick Start

Thank you for purchasing Polestar's DSP4000 Sensor System. These instructions are designed to help you get started quickly using the DSP4000.



1. **Optical Sensors** are sensitive to light and should be stored in the dark when not in use.
2. **Turning on the DSP Monitor** (the monitor should warm up for at least 60 min. before use)
   a. Confirm that the on/off switch is in the "off" position. Plug the AC power adapter into an appropriate power source and into the connector on the DSP power cable.
   b. Insert the long end (approx 1.25 in.) of fiber optic cable into channel one (bottom row of connectors) of the DSP. Screw the cap on to finger tight.
   c. Attach sensor probes to the other end of the fiber optic cable. The probe end of the fiber optic cable is equipped with a spring-loaded ST male connector that mates with the female ST connector on the probe or adaptor. Carefully align the tab on the ST male connector with the slot on the mating connector of the probe. If the sensor element is not yet attached, screw it onto the other end of the probe.
   d. Turn the on/off switch to the "on" position, close the top of the Monitor and observe the display (Do not screw tight.). The DSP operating system will automatically proceed through several screens as the system "boots up." It will stop in the **Run Mode.**
3. **Exploring the Main Menu**: Press **ESC** to access **Main Menu**
   a. Highlight **Setup Mode** and press **Enter** to access **Setup Mode**.
   b. Unless you have set up password protection, bypass the **User Login** by pressing **Enter.**
   c. Access the **Setup Mode** by channel by highlighting the channel and pressing **Enter**. ("**Absent"** indicates that the channel is non-functional.)
   d. Go to **Units** and press **Enter.** This screen shows you the units of measurement for this channel and provides the option to change the units.
   e. Press ESC to return to the **Enable/Disable** menu.
   f. Highlight **Timing** and press **Enter** to go to **Timing.** This menu allows the user to change the frequency at which the DSP samples the sensor.
   g. Return to the **Enable/Disable** menu

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h. Access **Temperature**. Manually input the temperature in the space where the sensor is working or provide temperature input as described in the manual.
i. One point calibration: The DSP OS provides a simple automatic method to perform a one point calibration. Details are provided in the manual.
j. Access **Pressure and 4-20mA.** Review manual to make adjustments.
k. **ESC** back to **Main Menu**
l. Select **Run Mode** and press enter. You should now see accurate measurements of your parameter of interest.

4. Procedures not covered here, including field upgrades and downloading calibration files are covered in the DSP Manual.
5. **Turning off the DSP Monitor**
   a. **ESC** to **Main Menu**
   b. Scroll to **Turn Off DSP…**
   c. Press **ESC** or **Enter** depending upon whether you want to save the log file.
   d. Turn the on/off switch to the off position.