



## 4 BAR MAP Sensor with SSI-4 PLUS Adapter

### Wiring

1. Connect the **RED** wire to the SSI-4 PLUS 5V terminal
2. Connect one of the two **BLACK** wires to the GND terminal of the SSI-4 PLUS.
3. Connect the **WHITE** wire to the desired channel's '+' terminal.

**Note:** The MAP sensor has a 0-5V output and by default channels 2-4 on the SSI-4 PLUS are configured to receive a 0-5V reference. Please refer to the SSI-4 PLUS manual for instructions to configure the channels if necessary.

4. Connect the second **BLACK** wire to the '-' terminal of the channel used.
5. Connect the MAP sensor's male three pin connector to the female 3 pin connector on the pig tail.



### MAP Sensor Installation

1. The MAP sensor **MUST** be installed with the hose fitting facing down to avoid damage from condensation. It is very important that the sensor be isolated from heat sources, mounted away from all ignition and/or other potential RF emitting sources, and protected against excessive vibration. The MAP sensor has two 1/8" holes that can be used to secure the sensor. Another viable option to mount the sensor is to use double-sided mounting tape.
2. Locate a vacuum source on the intake manifold, after the throttle body and connect it to the hose fitting on the sensor. Use the provided "T" and hose to make this connection if needed. To secure the hose use tie-wraps or hose clamps.

## LogWorks Configuration

1. To configure the input in the LogWorks software go to Channels/ Configure Channel and select the channel which you have the sensor connected to.
2. Change the Input Mode to “Innovate 4 BAR MAP sensor” and the sensor’s configuration will be automatically applied.

**Note:** The sensor’s configuration may also be entered manually. The configuration is:  
**-14.5 PSI = .5 volts and 43.5 PSI = 4.5 volts.**

3. Click OK to save the changes.

The screenshot shows the 'Configure Input' dialog box with the following settings:

- Input Name:** SSI4Plus\_4
- Input Type:** SSI-4 Input Module, SSI4Plus Channel 4
- Input Mode (ch 4):** Innovate 4 BAR MAP sensor
- Input Interpretation:**
  - Unit of measurement: PSI
  - Range: -14.5 PSI and 43.5 PSI
  - Equivalent Voltages: 0.50 Volt and 4.50 Volt
  - Options:  Expand to 0.5V,  Limit to programmed range
- Buttons:** Conversion Calculator, Invert Scale, Custom Lookup Table, Delete Table, Cancel, OK