

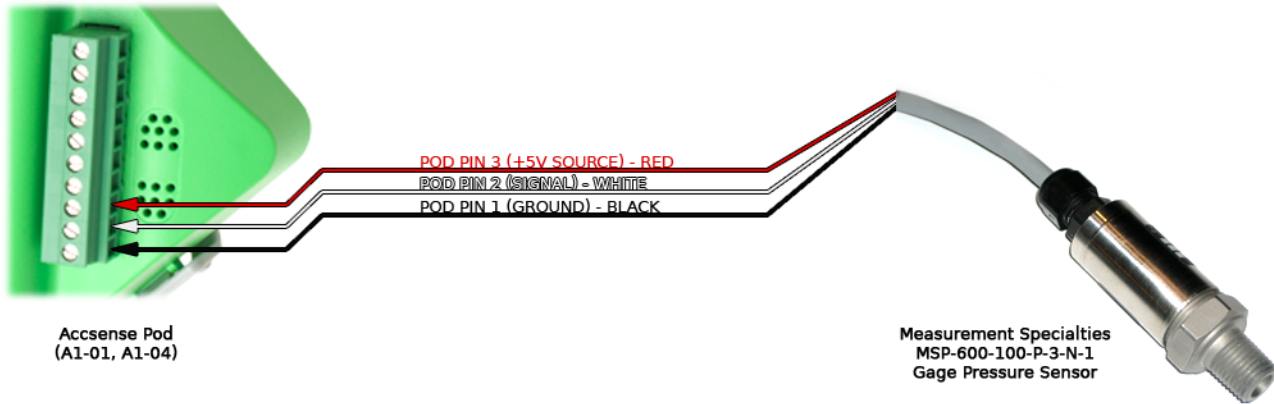
**Overview:**

The purpose of this document is to illustrate the proper connection and configuration of a Measurement Specialties Gage MSP-600-100-P-3-N-1. Note that this sensor is similar to the P-4-N-1 and P-5-N-1, but each is connected and configured differently. Please refer to the specific data sheets for those sensors. The MSP-600-100-P-3-N-1 connects to the 0-5V analog input on Accsense Pods, and the +5V power source.

Pod Choices: **A1-01 A1-04**

Connects to Pod Input: **0-5V, +5VDC**

**Connection Diagram:**



**Coefficient Calculation:**

This sensor utilizes the 0-5V Analog Input, and draws power from the +5V Source on the Pod. The sensor measures on a range of 0-100psi, and outputs 0.5-4.5V on that range, scaled linearly.

Coefficient Equation:

$$displayed\_value = coeff\_1 + coeff\_2 \cdot [value] + coeff\_3 \cdot [value]^2 + coeff\_4 \cdot [value]^3$$

$$Sensitivity = \frac{max\_v_{out} - min\_v_{out}}{pressure\_at\_max - pressure\_at\_min} = 40 \times 10^{-3}$$

$$coeff\_1 = pressure\_at\_min - \frac{min\_v_{out}}{Sensitivity} = -12.5$$

$$coeff\_2 = \frac{5}{Sensitivity \cdot 1024} = 122.0703 \times 10^{-3}$$

General	Info	Advanced
Calibration Coefficient-1: <input type="text" value="-12.5"/>		
Calibration Coefficient-2: <input type="text" value="122.070E-3"/>		
Calibration Coefficient-3: <input type="text" value="0"/>		
Calibration Coefficient-4: <input type="text" value="0"/>		

Accsense Online - Sensor Preferences (Advanced)

LEGAL DISCLAIMER???

SOME OTHER INFORMATION

CONTACT INFO, ETC...