

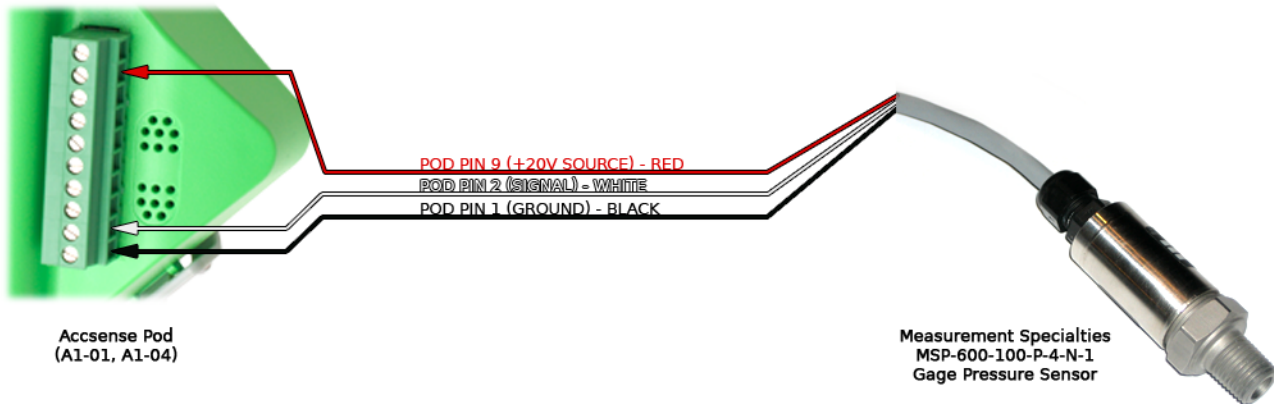
**Overview:**

The purpose of this document is to illustrate the proper connection and configuration of a Measurement Specialties Gage MSP-600-100-P-4-N-1. Note that this sensor is similar to the P-3-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-4-N-1 connects to the 0-5V analog input on Accsense Pods, and the +20V power source.

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

Connects to Pod Input: **0-5V, +20VDC**

**Connection Diagram:**



**Coefficient Calculation:**

This sensor utilizes the 0-5V Analog Input, and draws power from the +20V Source on the Pod. The sensor measures on a range of 0-100psi, and outputs 1-5V on that range, scaled linearly.

Coefficient Equation:

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

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

$$coeff\_1 = pressure\_at\_min - \frac{min\_v_{out}}{Sensitivity} = -25$$

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

General	Info	Advanced
Calibration Coefficient-1: <input type="text" value="-25"/>		
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, Inc provides these datasheets as a guide only, and makes no claims as to the validity or accuracy of these schematics, calculations, or uses. Always review and follow the documentation that comes with the specific sensors. If you have questions about how to hook up a particular sensor, please contact us via the telephone, or through the tech support contacts on our website.

At this point, we likely want some more legal mumbo-jumbo, in order to keep ourselves legally in the clear if someone tries to follow a datasheet and instead ends up frying their circuit.