

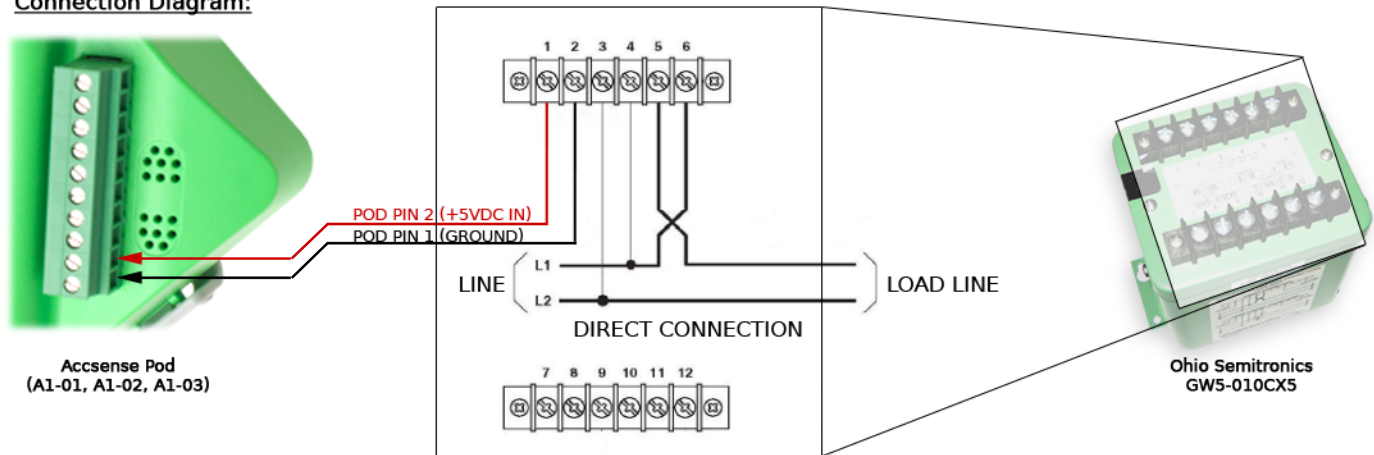
Overview:

The purpose of this document is to illustrate the proper connection and configuration of an Ohio Semitronics GW5-010CX5 Watt Transducer. The sensor measures power from 0-1kW, and outputs 0-5VDC. This sensor can be connected to any Accsense Pod with an external 0-5VDC input.

Pod Choices: **A1-01 A1-02 A1-04**

Connects to Pod Input: **0-5VDC**

Connection Diagram:



Coefficient Calculation:

This sensor outputs a range of 0-5VDC, scaled linearly. Our pods convert the 0-5V input to a 0-1024 digital value. Therefore, in order to display this in a useful way, you need to convert the 0-1024 back to wattage.

Coefficient Equation:

$$displayed_value = coeff_1 + coeff_2 \cdot [value] + coeff_3 \cdot [value]^2 + coeff_4 \cdot [value]^3$$

Where [value] is the value sent by the pod to our servers (in this case 0-1024). You must enter the following coefficients in the "Advanced" settings window.

$$coeff_2 = \frac{input\ wattage\ range}{bit\ range} = \frac{1000}{1024} = 0.9766$$

| General | Info | Advanced |
|--|------|----------|
| Calibration Coefficient-1: <input type="text" value="0"/> | | |
| Calibration Coefficient-2: <input type="text" value="0.9766"/> | | |
| Calibration Coefficient-3: <input type="text" value="0"/> | | |
| Calibration Coefficient-4: <input type="text" value="0"/> | | |

LEGAL DISCLAIMER???

SOME OTHER INFORMATION

CONTACT INFO, ETC...