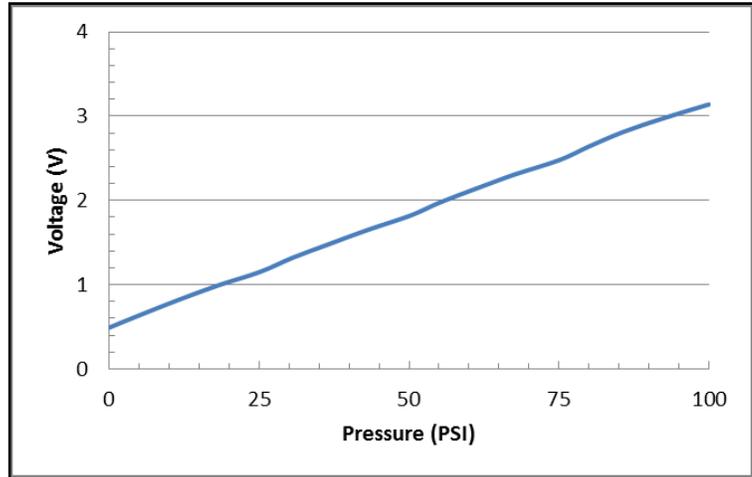


## Sensata Oil Pressure Sensor (ACC0122) Installation Guidelines (MAN0089R1.1)

### General Information

1. GSC400 must be one of the following models: LSB/LSX/LSC/LXC. The LS/LX models do not work with the Sensata Oil Pressure Sensor.
2. A voltage to pressure relationship can be found in the graph to the right.
3. Voltage range of the sensor is from  $0.5V_{DC}$  to  $4.5V_{DC}$ . If a voltage outside of this range is observed it could indicate a damaged sensor.



### Installation Instructions

1. Program the controller with the appropriate settings as follows (do only one of the following):

If you have firmware 2.04.05 or latter

In the front panel menu do the following.

- a. Set the Input Pin to Input **6** (Analog6).
- b. Set the Signal Source to **Sensata** (or Sender 3 in PC Configurator).

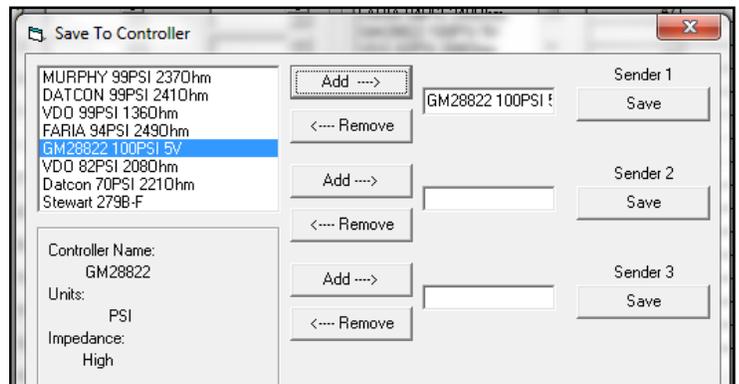
If you have firmware 2.04.03 or earlier

You will need a GSC400 programmer.

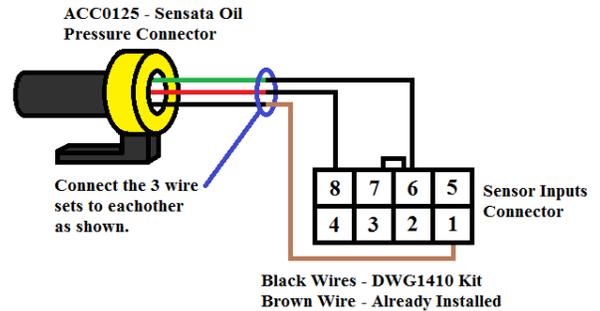
- c. Under Analog Inputs, the oil pressure input pin must be set to '**Input 6**' as shown to the right. The Signal Source must be set to **Sender 1**. Save Analog settings before proceeding to Step #2.



- d. Under Tools -> Edit Sender Tables -> Oil Pressure, click 'Save Tables to Controller' and set '**Sender 1**' to GM28822. Select 'Add' then 'Save'. The screen should look like the figure shown to the right.



2. Insert two of the wires from 'DWG1410' kit in connector J2-6 and J2-8. J2-1 wire should already be installed (brown wire). **NOTE:** Make sure the crimp pin is in the proper orientation when inserting into the connector so that it locks in place.



3. Wires from **ACC0125** cable harness are required to be connected to the GSC400 controller Sensor Input cable harness (DWG1376) as follows.
  - a. Green wire from ACC0125 connects to J2-6.
  - b. Red wire from ACC0125 connects to J2-8.
  - c. Black wire from ACC0125 connects to J2-1 (brown).

### Troubleshooting Guidelines

1. Verify that 5VDC is being applied to the sensor by measuring the voltage across the red and black wires.
2. With sensor not attached to engine, or the engine not running, measure the voltage across the green and black wires. There should be a reading of 0.5VDC (0 PSI).
3. Run engine and check the sensor output (between the black and green wires). The voltage should match that given in the graph above.
4. When the 'Sensor Inputs' connector on the GSC400 is disconnected, the controller should read 100 PSI. If the controller displays a value other than this, check the following:
  - a. Ensure the sensor output is connector to Pin 6 on the connector.
  - b. (firmware 2.04.03 and below only) Re-program the controller using the installation guidelines. Make sure that the oil pressure input is set to 'Input Pin 6' and the signal source is set to **Sender 1** before loading the GM28822 sender table to the controller.