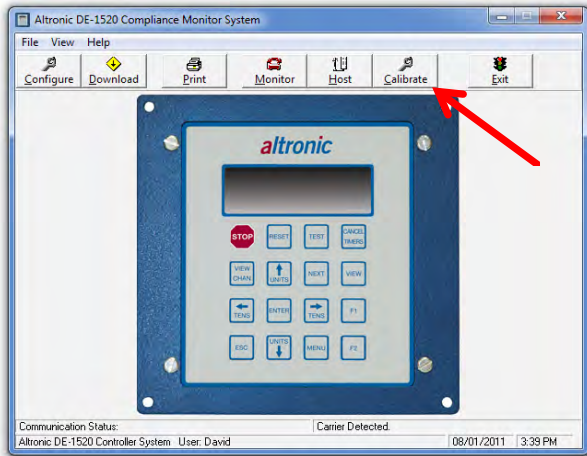


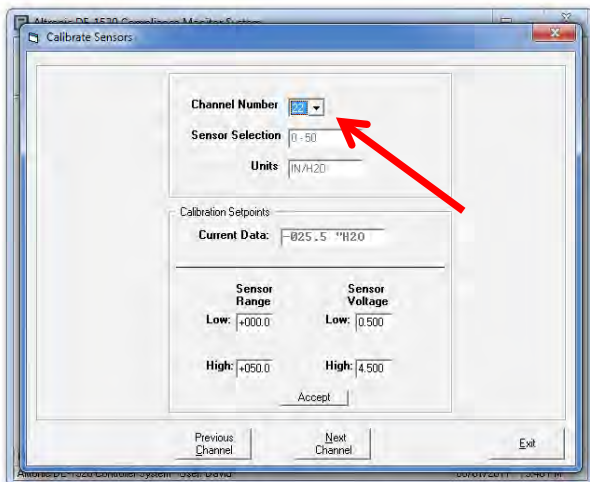
ECMD Catalyst Differential Pressure Input Setup/Calibration Procedure

The ECMD system is designed to monitor the differential pressure across the exhaust catalyst. In a standard application this will be connected to input 22 using the industry-standard 4-20mA or 0.5-4.5V signals. Given the nature and complexity of the application, an appropriate sensor will need to be selected based on site specific requirements – the purpose of this document is to outline the setup and calibration procedure for this application.

1. From the DE-1520 terminal program select the “Calibrate” feature along the top menu bar



2. The “Calibrate Sensors” dialog will open as shown below – select channel 22 from the drop-down menu



3. Establish the characteristics for the particular sensor that is going to be used – for the purpose of this example assume a 0-5 IN/H₂O transmitter using 4-20mA signaling into a 200Ω terminating resistance. (See DE-1520 IOM for wiring diagrams) Using Ohm’s law we can establish the following:

$$0.800V = 4mA \times 200\Omega$$

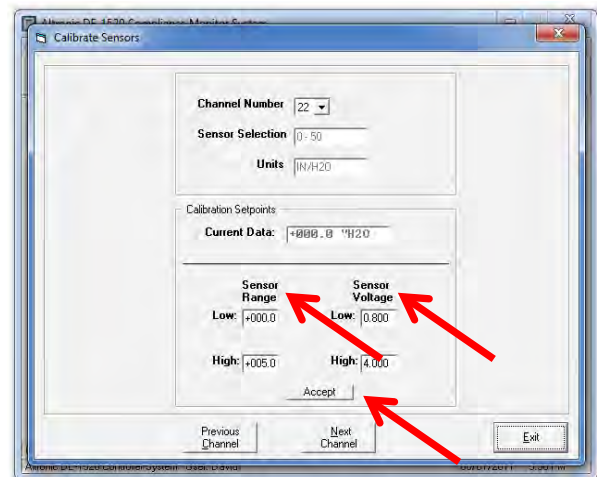
$$4.00V = 20mA \times 200\Omega$$

thus

$$0.800V = 000.0 \text{ IN/H}_2\text{O}$$

$$4.000V = 005.0 \text{ IN/H}_2\text{O}$$

4. In the “Calibrate Sensors” dialog change the “Sensor Range” and “Sensor Voltage” values to the ones established in step 3. Once the values have been entered select the “Accept” button to send the new values to DE-1520.



5. Verify proper operation of the device using standard calibration techniques and adjust the “Sensor Range” and “Sensor Voltage” values as required in your installation.