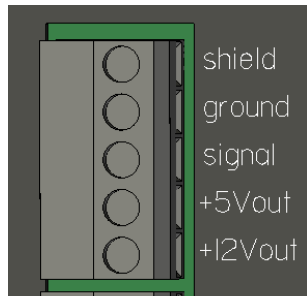# Sensor Cable to USM Terminal Strip

Pressure Type Sensors
Part # 680-CA-P144

After mounting the USM box, connect the individual sensor cables to each sensors. Run the cable to the USM location and cut cable to length. We are now ready to terminate the sensor cables to the USM terminal strip.

1)   Remove the 6 screws from the lid of the USM.

2)   Mounted inside are four terminal strips, one for each channel corresponding to ports that are labeled 1-4 on the housing lid and channels 1-4 in the software. (shown below is a picture of one terminal strip for one channel)

Shield
 Sensor cable shield wire (if cable is equipped)

Ground
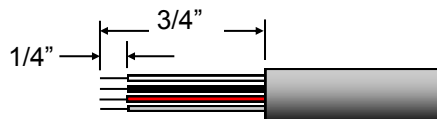Sensor ground / earth

Signal
Signal from sensor
to data logger

+5V or +12V
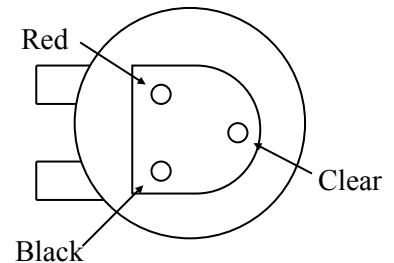 Power for sensor

3)   Select the port labeled for each sensor you are installing.

4)   Remove Strain Relief nut from USM box and slide it over the cable.

5)   Carefully strip approximately .750" from the main cable jacket. Be sure not to damage internal wires.

6)   Carefully strip approximately .250" of insulation from each sensor wire. (Red, Black, Clear, Shield, etc.)

7)   Determine the power requirements of the sensor 5 or 12 volts (**5V for Racepak pressure sensors**)

8)   Racepak pressure sensors will use the following cables:

+5Vout	=	**Red Wire**
Ground	=	**Black Wire**
Signal	=	**Clear Wire**

Rear View

9)   Loosen the appropriate screws on terminal strip

10)   Insert cable into strain relief on the appropriate port of the USM box.

11)   Connect the correct wires to the terminal strip and tighten each terminal screw.

12)   Slide strain relief nut to strain relief on USM box and secure tightly.

13)   Reinstall the housing lid and 6 screws

In order for the sensor to read and work correctly, each new sensor must be programmed in the configuration file. See USM instructions for software programming.