

# LOWDOLLER MOTORSPORTS

## Combo pressure and temperature sensors.

### Range:

Pressure: (0- 100PSI) (0- 150PSI) (0- 300PSI)

Temperature: -40F to 500F sensor.

### Thread:

1/8" 27 NPT (Use thread sealant)

Or

Metric M12 X 1.5 with sealing ring.

### Pressure sensor wiring:

Red = 5V Power from ECU/Logger

Black = Sensor ground to ECU/ logger

Yellow = Analog signal

### Temperature sensor wiring:

Green = Sensor Signal

White = Sensor ground (ECU or data logger - Do not use chassis)

PT100	
Degrees F	Ohms.
-40	84.27
-4	89.54
32	100
68	107.79
104	115.54
140	123.24
176	130.9
212	138.51
248	146.07
284	153.585
320	161.05
356	168.48
392	175.86
428	183.19
464	190.47
500	197.71

100 PSI	
PSI	Voltage
0	0.50
7	0.77
13	1.03
20	1.30
27	1.57
33	1.83
40	2.10
47	2.37
53	2.63
60	2.90
67	3.17
73	3.43
80	3.70
87	3.97
93	4.23
100	4.50

150 PSI	
PSI	Voltage
0	0.50
10	0.77
20	1.03
30	1.30
40	1.57
50	1.83
60	2.10
70	2.37
80	2.63
90	2.90
100	3.17
110	3.43
120	3.70
130	3.97
140	4.23
150	4.50

300 PSI	
PSI	Voltage
0	0.50
20	0.77
40	1.03
60	1.30
80	1.57
100	1.83
120	2.10
140	2.37
160	2.63
180	2.90
200	3.17
220	3.43
240	3.70
260	3.97
280	4.23
300	4.50

**VERY IMPORTANT! DO NOT** use "linear scaling" or "fill row value" on temp sensor. You **MUST** manually type in each resistance value for the given temperature. This sensor is **EXTREMELY** sensitive to poor connections. Any added resistance by the wiring **WILL CAUSE** the sensor to display incorrect values. To test the sensor, place it in ice water for 45 seconds and measure resistance between the two pins. It should read roughly 101.5 ohms.