



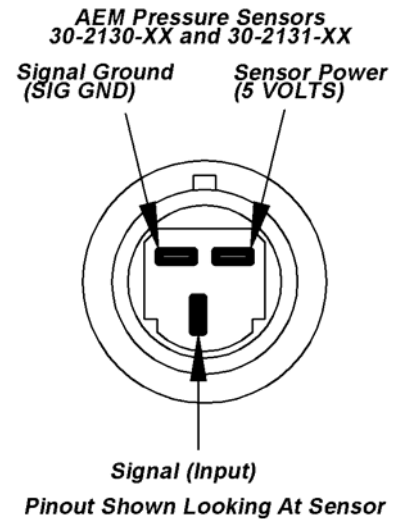
**PERFORMANCE ELECTRONICS**

# Instruction Manual

## P/N 30-2130-XXX Pressure Sensors

The model **30-2130-XXX** family of pressure transducers is specifically designed for pressure measurements in automotive systems. The mechanical connection is 1/8" Male NPT. Each sensor comes with a mating connector plug and pin kit.

KIT CONTENTS				
Part Number	Sensor	Connector Kit	-4 Adapter	3/16" Hose Barb
30-2130-15	15 PSla (1 Bar)	Included	Included	Included
30-2130-30	30 PSla (2 Bar)	Included	Included	Included
30-2130-50	50 PSla (3.5 Bar)	Included	Included	Included
30-2130-75	75 PSla (5 Bar)	Included	Included	Included
30-2130-100	100 PSlg	Included	Included	NA
30-2130-150	150 PSlg	Included	Included	NA
30-2130-500	500 PSlg	Included	Included	NA
30-2130-1000	1000 PSlg	Included	Included	NA
30-2130-2000	2000 PSlg	Included	Included	NA

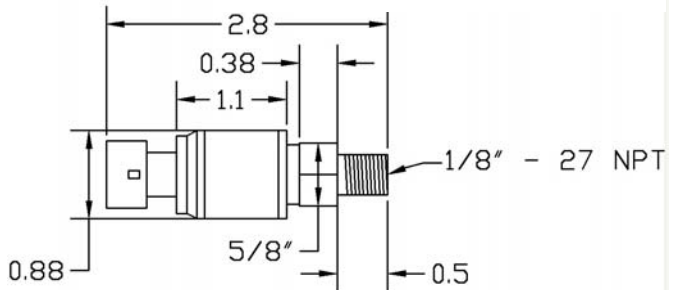


**Specifications:**

Accuracy:	+/- 1% FS
Temp Error:	+/- 1% FS
Operating Temp:	-40 to 105C
Burst Pressure:	3 X FS
Supply Voltage:	5V +/- 0.5V
Supply Current:	< 6 mA
Response Time:	< 1 mS
Vibration:	20G Sinusoidal
Weight:	< 85 Grams
Body Material:	304L
Wetted Material:	316L
Mechanical Connection:	1/8"NPT Male
Electrical Connection:	Packard 3-Pin

**Electrical Termination:**

Signal Ground: Tap to Sensor/Signal Ground on EMS or AQ1  
 Sensor Power: Tap to Sensor Power +5V on EMS or AQ1  
 Signal: Connect to MAP/Input Channel on EMS or Input 1-8 on AQ1



## IMPORTANT!

The terminals are "Pull to Seat" meaning you must feed the wire through the connector housing **BEFORE** you crimp on the terminals. The wire is then pulled back into the housing and the terminal locks in place. The terminal cannot be inserted or removed from the rear (wire side entry) of the housing. See Figure 1. Below

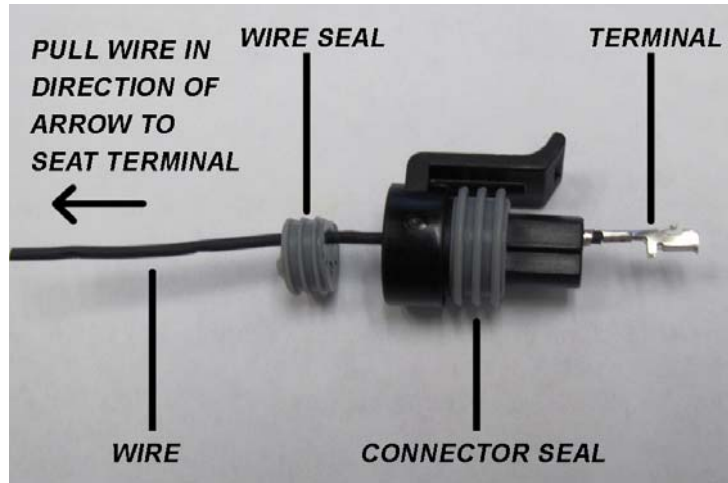


Figure 1. Connector Assembly Showing Pull to Seat Terminal

## VOLTAGE OUTPUT

Voltage Range	30-2130-15	30-2130-30	30-2130-50	30-2130-75	30-2130-100	30-2130-150	30-2130-500	30-2130-1000	30-2130-2000
	-14.7-0.3 PSla	-14.7-15.3 PSla	-14.7-35.3 PSla	-14.7-60.3 PSla	0-100 PSlg	0-150 PSlg	0-500 PSlg	0-1,000 PSlg	0-2,000 PSlg
0.5	-14.7	-14.7	-14.7	-14.7	0	0	0	0	0
0.75	-13.763	-12.825	-11.575	-10.013	6.25	9.375	31.25	62.5	125
1	-12.825	-10.95	-8.45	-5.325	12.5	18.75	62.5	125	250
1.25	-11.888	-9.075	-5.325	-0.637	18.75	28.125	93.75	187.5	375
1.5	-10.95	-7.2	-2.2	4.05	25	37.5	125	250	500
1.75	-10.013	-5.325	0.925	8.738	31.25	46.875	156.25	312.5	625
2	-9.075	-3.45	4.05	13.425	37.5	56.25	187.5	375	750
2.25	-8.138	-1.575	7.175	18.113	43.75	65.625	218.75	437.5	875
2.5	-7.2	0.3	10.3	22.8	50	75	250	500	1000
2.75	-6.263	2.175	13.425	27.488	56.25	84.375	281.25	562.5	1125
3	-5.325	4.05	16.55	32.175	62.5	93.75	312.5	625	1250
3.25	-4.388	5.925	19.675	36.863	68.75	103.125	343.75	687.5	1375
3.5	-3.45	7.8	22.8	41.55	75	112.5	375	750	1500
3.75	-2.513	9.675	25.925	46.238	81.25	121.875	406.25	812.5	1625
4	-1.575	11.55	29.05	50.925	87.5	131.25	437.5	875	1750
4.25	-0.637	13.425	32.175	55.613	93.75	140.625	468.75	937.5	1875
4.5	0.3	15.3	35.3	60.3	100	150	500	1000	2000