

LOWDOLLER MOTORSPORTS

899 series MAP Sensors

Supply voltage 5V

Signal Output 0.5V to 4.5V

1 BAR / PAN VAC		
Voltage	KPA	PSI
0.50	100	0.00
0.77	93	-0.97
1.03	87	-1.93
1.30	80	-2.90
1.57	73	-3.87
1.83	67	-4.83
2.10	60	-5.80
2.37	53	-6.77
2.63	47	-7.73
2.90	40	-8.70
3.17	33	-9.67
3.43	27	-10.63
3.70	20	-11.60
3.97	13	-12.57
4.23	7	-13.53
4.50	0	-14.50

2 BAR		
Voltage	KPA	PSI
0.50	0	-14.5
0.77	13	-12.6
1.03	27	-10.6
1.30	40	-8.7
1.57	53	-6.8
1.83	67	-4.8
2.10	80	-2.9
2.37	93	-1.0
2.63	107	1.0
2.90	120	2.9
3.17	133	4.8
3.43	147	6.8
3.70	160	8.7
3.97	173	10.6
4.23	187	10.6
4.50	200	14.5

3 BAR		
Voltage	KPA	PSI
0.50	0	-14.5
0.77	20	-11.6
1.03	40	-8.7
1.30	60	-5.8
1.57	80	-2.9
1.83	100	0.0
2.10	120	2.9
2.37	140	5.8
2.63	160	8.7
2.90	180	11.6
3.17	200	14.5
3.43	220	17.4
3.70	240	20.3
3.97	260	23.2
4.23	280	26.1
4.50	300	29.0

4 BAR		
Voltage	KPA	PSI
0.50	0	-14.5
0.77	27	-10.6
1.03	53	-6.8
1.30	80	-2.9
1.57	107	1.0
1.83	133	4.8
2.10	160	8.7
2.37	187	12.6
2.63	213	16.4
2.90	240	20.3
3.17	267	24.2
3.43	293	28.0
3.70	320	31.9
3.97	347	35.8
4.23	373	39.6
4.50	400	43.5

5 BAR		
Voltage	KPA	PSI
0.50	0	-14.5
0.77	33	-9.7
1.03	67	-4.8
1.30	100	0.0
1.57	133	4.8
1.83	167	9.7
2.10	200	14.5
2.37	233	19.3
2.63	267	24.2
2.90	300	29.0
3.17	333	33.8
3.43	367	38.7
3.70	400	43.5
3.97	433	48.3
4.23	467	53.2
4.50	500	58.0

6 BAR		
Voltage	KPA	PSI
0.50	0	-14.5
0.77	40	-8.7
1.03	80	-2.9
1.30	120	2.9
1.57	160	8.7
1.83	200	14.5
2.10	240	20.3
2.37	280	26.1
2.63	320	31.9
2.90	360	37.7
3.17	400	43.5
3.43	440	49.3
3.70	480	55.1
3.97	520	60.9
4.23	560	66.7
4.50	600	72.5

For systems that require 0V and 5V values.

1 BAR	
Voltage	PSI
0	1.81
5	16.31

4 BAR	
Voltage	PSI
0	-21.75
5	50.75

2 BAR	
Voltage	PSI
0	-18.13
5	-18.13

5 BAR	
Voltage	PSI
0	-23.56
5	67.06

3 BAR	
Voltage	PSI
0	-19.94
5	34.44

6 BAR	
Voltage	PSI
0	-25.38
5	83.37

LOWDOLLER MOTORSPORTS

799 and 899 Pressure sensors

Supply voltage 5V
Signal Output 0.5V to 4.5V

15 PSI	
Voltage	PSI
0.50	0
0.77	1
1.03	2
1.30	3
1.57	4
1.83	5
2.10	6
2.37	7
2.63	8
2.90	9
3.17	10
3.43	11
3.70	12
3.97	13
4.23	14
4.50	15

25 PSI	
Voltage	PSI
0.50	0
0.77	1.7
1.03	3.3
1.30	5
1.57	6.7
1.83	8.3
2.10	10
2.37	11.7
2.63	13.3
2.90	15
3.17	16.7
3.43	18.3
3.70	20
3.97	21.7
4.23	23.3
4.50	25

50 PSI	
Voltage	PSI
0.50	0
0.77	3.3
1.03	6.7
1.30	10
1.57	13.3
1.83	16.7
2.10	20
2.37	23.3
2.63	26.7
2.90	30
3.17	33.3
3.43	36.7
3.70	40
3.97	43.3
4.23	46.7
4.50	50

75PSI	
Voltage	PSI
0.50	0
0.77	5
1.03	10
1.30	15
1.57	20
1.83	25
2.10	30
2.37	35
2.63	40
2.90	45
3.17	50
3.43	55
3.70	60
3.97	65
4.23	70
4.50	75

100 PSI	
Voltage	PSI
0.50	0
0.77	6.7
1.03	13.3
1.30	20
1.57	26.7
1.83	33.3
2.10	40
2.37	46.7
2.63	53.3
2.90	60
3.17	66.7
3.43	73.3
3.70	80
3.97	86.7
4.23	93.3
4.50	100

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

200 PSI	
Voltage	PSI
0.50	0
0.77	13
1.03	27
1.30	40
1.57	53
1.83	67
2.10	80
2.37	93
2.63	107
2.90	120
3.17	133
3.43	147
3.70	160
3.97	173
4.23	187
4.50	200

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

500 PSI	
Voltage	PSI
0.50	0
0.77	33
1.03	67
1.30	100
1.57	133
1.83	167
2.10	200
2.37	233
2.63	267
2.90	300
3.17	333
3.43	367
3.70	400
3.97	433
4.23	467
4.50	500

1600 PSI	
Voltage	PSI
0.50	0
0.77	107
1.03	213
1.30	320
1.57	427
1.83	533
2.10	640
2.37	747
2.63	853
2.90	960
3.17	1067
3.43	1173
3.70	1280
3.97	1387
4.23	1493
4.50	1600

3000 PSI	
Voltage	PSI
0.50	0
0.77	200
1.03	400
1.30	600
1.57	800
1.83	1000
2.10	1200
2.37	1400
2.63	1600
2.90	1800
3.17	2000
3.43	2200
3.70	2400
3.97	2600
4.23	2800
4.50	3000

5000 PSI	
Voltage	PSI
0.50	0
0.77	333
1.03	677
1.30	1000
1.57	1333
1.83	1667
2.10	2000
2.37	2333
2.63	2667
2.90	3000
3.17	3333
3.43	3667
3.70	4000
3.97	4333
4.23	4667
4.50	5000

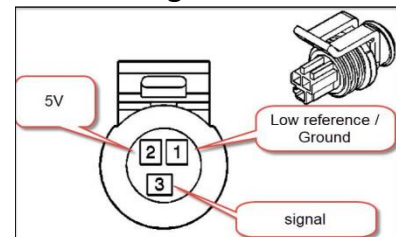
Prewired cable.

Red = 5V

Black = Sensor ground from ECU or data logger. (NOT chassis ground!)

Yellow = Sensor signal

View looking into connector.



For systems that require 0V and 5V values.

15 PSI		25 PSI		50 PSI		75PSI		100 PSI		150 PSI	
Voltage	PSI	Voltage	PSI	Voltage	PSI	Voltage	PSI	Voltage	PSI	Voltage	PSI
0	-1.875	0	-3.125	0	-6.25	0	-9.375	0	-12.5	0	-18.75
5	16.875	5	28.125	5	56.26	5	84.375	5	112.5	5	168.75
200 PSI		300 PSI		500 PSI		1600 PSI		3000 PSI		5000 PSI	
Voltage	PSI	Voltage	PSI	Voltage	PSI	Voltage	PSI	Voltage	PSI	Voltage	PSI
0	-25	0	-37.5	0	-62.5	0	-200	0	-375	0	-625
5	225	5	337.5	5	562.5	5	1800	5	3375	5	5625