

BAR PRESSURE SENSOR **VOLTAGE CHART** — 1 TO 6 BAR

Output voltage vs pressure for Online Motorsports **0.5–4.5 V BAR** (absolute) sensors, used for MAP, boost, crankcase vacuum and low-pressure fuel/oil. **kPa abs** = absolute pressure; **PSI g** = gauge pressure (atmosphere = 0, vacuum is negative). $\text{kPa abs} = (\text{Volts} - 0.5) \times \text{Bar} \times 25$.

Fittings available: **1/8" NPT** **AN4 Female** Custom threads and pressure ranges available on request.

1 BAR 0 to -1 bar (vacuum)		
1/8" NPT AN4 Female		
VOLTS	KPA ABS	PSI G
0.50	100.0	0.0
0.77	93.3	-1.0
1.03	86.7	-1.9
1.30	80.0	-2.9
1.57	73.3	-3.9
1.83	66.7	-4.8
2.10	60.0	-5.8
2.37	53.3	-6.8
2.63	46.7	-7.7
2.90	40.0	-8.7
3.17	33.3	-9.7
3.43	26.7	-10.6
3.70	20.0	-11.6
3.97	13.3	-12.6
4.23	6.7	-13.5
4.50	0.0	-14.5

2 BAR -1 to +1 bar gauge		
1/8" NPT AN4 Female		
VOLTS	KPA ABS	PSI G
0.50	0.0	-14.5
0.77	13.3	-12.6
1.03	26.7	-10.6
1.30	40.0	-8.7
1.57	53.3	-6.8
1.83	66.7	-4.8
2.10	80.0	-2.9
2.37	93.3	-1.0
2.63	106.7	1.0
2.90	120.0	2.9
3.17	133.3	4.8
3.43	146.7	6.8
3.70	160.0	8.7
3.97	173.3	10.6
4.23	186.7	12.6
4.50	200.0	14.5

3 BAR -1 to +2 bar gauge		
1/8" NPT		
VOLTS	KPA ABS	PSI G
0.50	0.0	-14.5
0.77	20.0	-11.6
1.03	40.0	-8.7
1.30	60.0	-5.8
1.57	80.0	-2.9
1.83	100.0	0.0
2.10	120.0	2.9
2.37	140.0	5.8
2.63	160.0	8.7
2.90	180.0	11.6
3.17	200.0	14.5
3.43	220.0	17.4
3.70	240.0	20.3
3.97	260.0	23.2
4.23	280.0	26.1
4.50	300.0	29.0

4 BAR -1 to +3 bar gauge		
1/8" NPT		
VOLTS	KPA ABS	PSI G
0.50	0.0	-14.5
0.77	26.7	-10.6
1.03	53.3	-6.8
1.30	80.0	-2.9
1.57	106.7	1.0
1.83	133.3	4.8
2.10	160.0	8.7
2.37	186.7	12.6
2.63	213.3	16.4
2.90	240.0	20.3
3.17	266.7	24.2
3.43	293.3	28.0
3.70	320.0	31.9
3.97	346.7	35.8
4.23	373.3	39.6
4.50	400.0	43.5

5 BAR -1 to +4 bar gauge		
1/8" NPT AN4 Female		
VOLTS	KPA ABS	PSI G
0.50	0.0	-14.5
0.77	33.3	-9.7
1.03	66.7	-4.8
1.30	100.0	0.0
1.57	133.3	4.8
1.83	166.7	9.7
2.10	200.0	14.5
2.37	233.3	19.3
2.63	266.7	24.2
2.90	300.0	29.0
3.17	333.3	33.8
3.43	366.7	38.7
3.70	400.0	43.5
3.97	433.3	48.3
4.23	466.7	53.2
4.50	500.0	58.0

6 BAR -1 to +5 bar gauge		
1/8" NPT		
VOLTS	KPA ABS	PSI G
0.50	0.0	-14.5
0.77	40.0	-8.7
1.03	80.0	-2.9
1.30	120.0	2.9
1.57	160.0	8.7
1.83	200.0	14.5
2.10	240.0	20.3
2.37	280.0	26.1
2.63	320.0	31.9
2.90	360.0	37.7
3.17	400.0	43.5
3.43	440.0	49.3
3.70	480.0	55.1
3.97	520.0	60.9
4.23	560.0	66.7
4.50	600.0	72.5

QUICK SETUP

1 Mount

Use a flexible hose — never on the block, rail or pump.

2 Seal

NPT: thread sealant, snug only. AN4: seals on the flare, no sealant.

3 Wire

Pin 1 ground, pin 2 +5 V, pin 3 signal — see pinout on page 2.

4 Calibrate

Refer to your ECU or data logger instructions on how to calibrate your system.

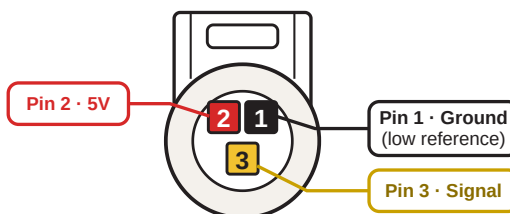
EXTENDED BAR SENSOR **VOLTAGE CHART** — 8 & 10 BAR

kPa abs = (Volts – 0.5) × Bar × 25. PSI g = gauge pressure (atmosphere = 0).

Fittings available: **1/8" NPT** **AN4 Female** Custom threads and pressure ranges available on request.

8 BAR -1 to +7 bar gauge			10 BAR -1 to +9 bar gauge		
1/8" NPT			1/8" NPT		
VOLTS	KPA ABS	PSI G	VOLTS	KPA ABS	PSI G
0.50	0.0	-14.5	0.50	0.0	-14.5
0.77	53.3	-6.8	0.77	66.7	-4.8
1.03	106.7	1.0	1.03	133.3	4.8
1.30	160.0	8.7	1.30	200.0	14.5
1.57	213.3	16.4	1.57	266.7	24.2
1.83	266.7	24.2	1.83	333.3	33.8
2.10	320.0	31.9	2.10	400.0	43.5
2.37	373.3	39.6	2.37	466.7	53.2
2.63	426.7	47.4	2.63	533.3	62.8
2.90	480.0	55.1	2.90	600.0	72.5
3.17	533.3	62.8	3.17	666.7	82.2
3.43	586.7	70.6	3.43	733.3	91.9
3.70	640.0	78.3	3.70	800.0	101.5
3.97	693.3	86.1	3.97	866.7	111.2
4.23	746.7	93.8	4.23	933.3	120.9
4.50	800.0	101.5	4.50	1,000.0	130.5

View looking into FRONT of connector



Pin 2 · 5V

Pin 1 · Ground (low reference)

Pin 3 · Signal

Front



Rear (wire side)



CONNECTOR PINOUT
GT150 Packard, 3-pin

PIN	FUNCTION	CABLE
1	Sensor ground	● Black
2	+5 V supply	● Red
3	Signal 0.5–4.5 V	● Yellow

Pre-made cables with 90° boot available in 1.5 m, 2 m & 4 m

Important: use the ECU/logger sensor ground — **not** chassis ground.