

4 Bar MAP Sensor

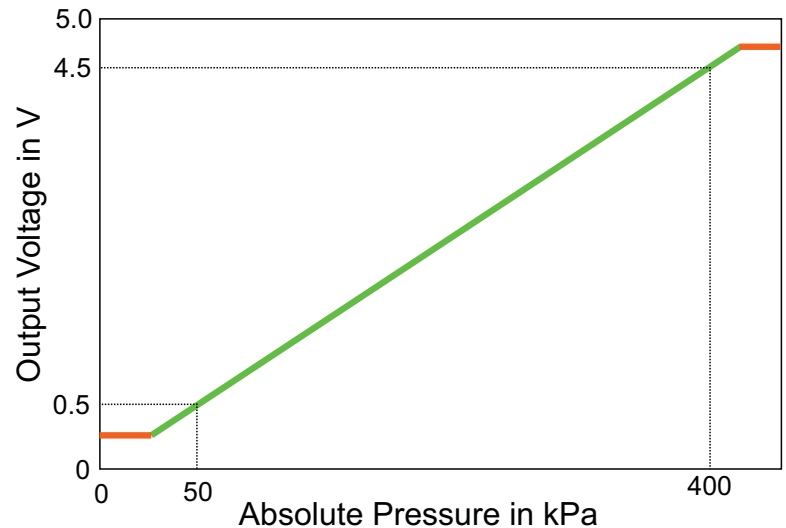
This Pressure Sensor measures Absolute not Gauge pressure, so at normal atmospheric pressure it will read 1 Bar. This permits the Sensor to read both vacuum and pressure.

Specifications (Nominal)

Media : Gas
 Minimum Pressure : 50kPa
 Maximum Pressure : 400kPa
 Supply Voltage : 5Volt DC (regulated)
 Supply Current : 12.5 mA

Operation of the sensor outside of specifications may cause non-linear or incorrect operation.

Large variations from the sensors nominal ratings WILL cause permanent damage.



Sensor Connections (cable - user terminated)

RED WIRE : 5 Volt DC Supply
WHITE WIRE : Sensor Output
BRAID : Ground (0 V)

For Plug connections refer to the diagram on the Sensor Case.

Output values vs applied Pressure

Units	mV1		Pressure 1	mV2		Pressure 2
kPa	500	@	50 kPa	4500	@	400 kPa
Bar	500	@	0.5 Bar	4500	@	4 Bar
PSI	500	@	7 PSI	4500	@	60 PSI

Using with DYNertia Dyno Systems.

Dynertia version 3.3.0 and greater have support for the 4 Bar MAP Sensor already included in kPa, Bar and PSIA - all that is required is go to Setup > Sensor Configuration and apply it to any of DYNertia's Analog Inputs.

With older DYNertia versions you will need to create a "New Sensor" (Setup > Sensor Configuration) and enter the calibration values as listed above.

Other Applications.

As the output voltage of the Sensor is linearly dependant on Pressure, any application that allows inputs to be calibrated should be able to use this Sensor.

Warnings



- Do not apply over pressure to the Sensor.
- Do not expose the Sensor to high temperatures.
- Do not apply excessive force to the brass pressure barb.
- Not suitable for use with fluids.
- Do not exceed the rated supply voltage.
- Do not stress or stretch the cabling.
- Do not expose the case to solvents or corrosive materials.