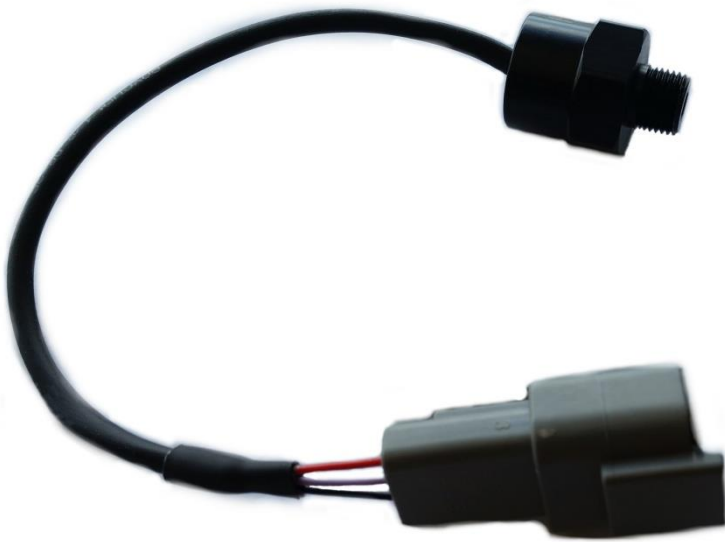




1301-40A (4.0 Bar Map Sensor)



December 2015

The Emtron 4.0 Bar MAP Sensor uses a state-of-the-art piezoresistive transducer from Freescale Semiconductors. It is highly accurate, providing a high level analog output signal that is proportional to the applied pressure.

Features

- Genuine Freescale Sensor
- Pressure Range: 20kPa to 400kPa
- Max Supply Voltage: 4.70 to 5.30 Volts DC
- Current Supply 6.0mA
- Protective Silicone Gel prevents sensor damage from airborne contaminants like oil, petrol and methanol.
- Fully calibrated and temperature compensated from -40 DegC to +125 DegC
- Response time 1ms
- Compact Design
- 1/8 NPT Thread
- DTM 3 Way Connector(mating end also supplied)
- Fully potted for a waterproof seal and resistance to shock and vibration

Calibration

Normal Transfer Value: $V_{out} = V_{Supply} \times (0.002421 \times P - 0.00842)$

V_{Supply} allows for ratiometric correction. Set to 5.000V when not required.

$P = 400\text{kPa}$: $V_{OUT} = 5.00 \times (0.002421 \times 400.0 - 0.00842) = 4.799\text{V}$

$P = 20.0\text{kPa}$: $V_{OUT} = 5.00 \times (0.002421 \times 20.0 - 0.00842) = 0.200\text{V}$

Voltage (V)	Pressure (kPa)
0.200	20.0
4.799	400.0



DATASHEET
1301-40A
4 Bar Map

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