



HV 1.0 BAR MAP SENSOR DATASHEET

HV1301-10A , HV1302-10A

The HV 1.0 Bar MAP Sensor is a state-of-the-art, high temperature, media resistant absolute pressure sensor. It is highly accurate, providing an analog output signal proportional to the pressure applied.

HV
Electronics

Rev 1.1

Features

- Genuine NXP Pressure Sensor
- Pressure Range: 15kPa to 115kPa
- Max Supply Voltage: 4.75 to 5.20 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
- Media Type: Air
- Output Type: Amplified, Ratiometric 0.0V - 5.0V
- Compact Design
- 1/8 NPT Thread or Barbed Tail
- DTM 3 Way Connector(mating end also supplied)
- Fully potted for a waterproof seal and resistance to shock and vibration

Calibration

Normal Transfer Value: $V_{out} = V_{Supply} \times (0.009 \times P - 0.095)$

P = 115.0kPa: $V_{OUT} = 5.00 \times (0.009 \times 115.0 - 0.095) = 4.700V$

P = 15.0kPa: $V_{OUT} = 5.00 \times (0.009 \times 15.0 - 0.095) = 0.200V$

Voltage (V)	Pressure (kPa)
0.200	15.0
4.700	115.0

Ordering Information

Product	Part Number
HV 1.0 Bar MAP Sensor - 1/8 NPT	HV1301-10A
HV 1.0 Bar MAP Sensor - Barbed Tail	HV1302-10A

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(See the www for contact information)

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