



# HV 4.0 BAR MAP SENSOR DATASHEET

HV1301-40A , HV1302-40A

The HV 4.0 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: 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
- Media Type: Air
- Output Type: Amplified, Ratiometric 0.0V - 5.0V
- Compact Design
- 1/8 NPT Thread or 6mm 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:**  $V_{out} = V_{Supply} \times (0.002421 \times P - 0.00842)$

P = 400kPa:  $V_{OUT} = 5.00 \times (0.002421 \times 400.0 - 0.00842) = 4.800V$

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

Voltage (V)	Pressure (kPa)
0.200	20.0
4.800	400.0

## Ordering Information

Product	Part Number
HV 4.0 Bar MAP Sensor - 1/8 NPT	HV1301-40A
HV 4.0 Bar MAP Sensor - Barbed Tail	HV1302-40A

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(See the www for contact information)

[www.hvelectronics.co.nz](http://www.hvelectronics.co.nz)