



HV 2.5 BAR MAP SENSOR DATASHEET

HV1301-25A , HV1302-25A

The HV 2.5 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
- Absolute Pressure Range: 20kPa to 250kPa
- 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 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: $V_{out} = V_{Supply} \times (0.004 \times P - 0.040)$

$P = 250\text{kPa}: V_{OUT} = 5.00\text{V} \times (0.004 \times 250.0 - 0.040) = 4.800\text{V}$

$P = 20.0\text{kPa}: V_{OUT} = 5.00\text{V} \times (0.004 \times 20.0 - 0.040) = 0.200\text{V}$

Voltage (V)	Pressure (kPa)
0.200	20.0
4.800	250.0

Ordering Information

Product	Part Number
HV 2.5 Bar MAP Sensor – 1/8 NPT	HV1301-25A
HV 2.5 Bar MAP Sensor – Barbed Tail	HV1302-25A

HV Electronics Ltd

74 Whiore Av, The Lakes

Tauranga

New Zealand

(See the www for contact information)

www.hvelectronics.co.nz