

Pressure - PRT 03/04 - 06

Automotive 1 & 2.5 bar absolute



Description

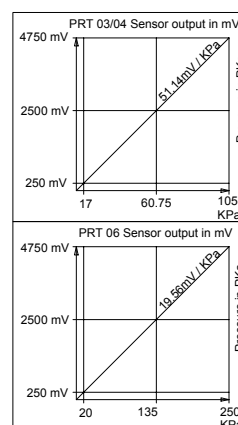
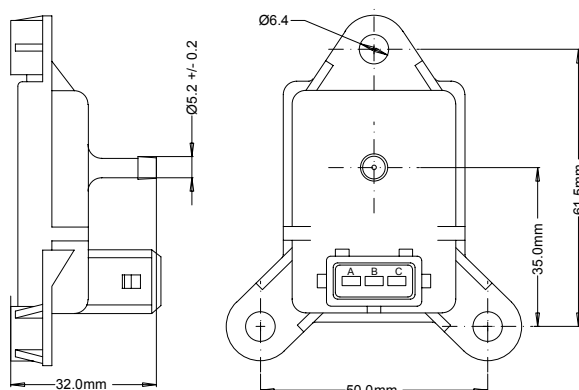
The PRT xx series devices are high-accuracy and reliability analogue absolute pressure sensors.

Each pressure sensor exploits the piezoresistive properties of silicon devices. The sensing element is a Wheatstone bridge located on a mechanically-shaped silicon chip. A thick film hybrid circuit for signal amplifying is included in the same package. The same circuitry provides thermal compensation and noise reduction.

These active devices are housed in hermetically sealed plastic protective casings



Dimensions



Technical Data

Mechanical Characteristics

Dimensions (maximum) 76,5x65.0x32.0 mm
Nozzle diameter 4.7 mm
Weight 42.0 g
Connector Mini-Timer 3 ways

Electrical Characteristics

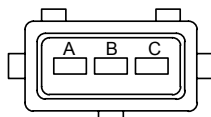
Power supply 5.00 Vdc ± 0.5
Min pressure output (at 5 Vdc supply) 0.25 V
Full scale output (at 5 Vdc supply) 4.75 V
Output impedance less than 10 Ω

Performance

Pressure range:
PRT 03/04 17 \div 105 kPa
PRT 06 20 \div 250 kPa
Operating temperature range -40 \div 125 $^{\circ}\text{C}$
Response time less than 2 ms
Accuracy (from nominal values) 1 % f.s.o.
(including non-linearity, hysteresis and repeatability)
Over pressure 200 %

Electrical connection

PIN	description
A	+ 5 Vdc
B	GND
C	Signal OUT



Important wiring note:

The connections A,B & C are identified as 1,2 & 3 on many commercially available minitimer connectors and may also be numerically reversed.

Always check your loom connections against the sensor connector shown here.

Ordering information

Part No.	Description	Order Code
PRT 03 /04	Air Pressure Transducer 105 kPa (1.05 bar max)	215810001604
PRT 06	Air Pressure Transducer 250 kPa (2.5 bar max)	215810001900

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