

PRT 03/04 - 06

Air pressure sensors, 1.0 / 2.5 bar absolute



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.

Technical data

Mechanical Characteristics

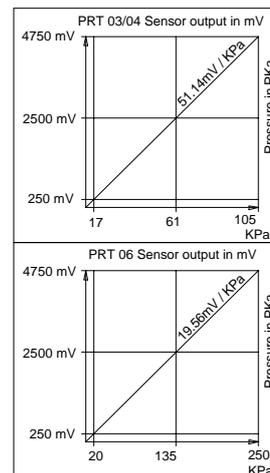
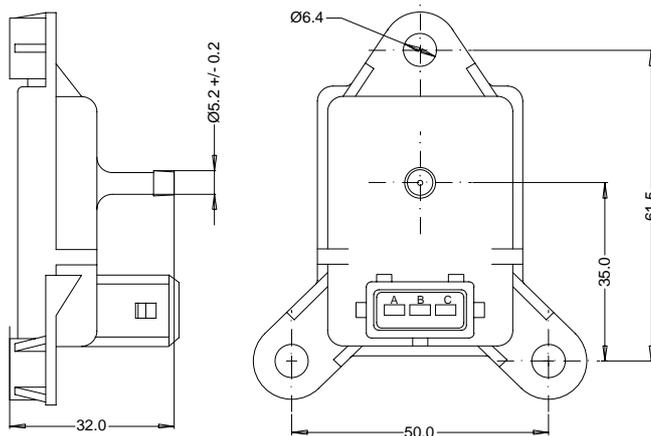
Dimensions (maximum)76,5x65.0x32.0 mm
 Nozzle diameter4.7 mm
 Weight42.0 g
 ConnectorMini-Timer 3 ways

Electrical Characteristics

Power supply5.00 Vdc \pm 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 W

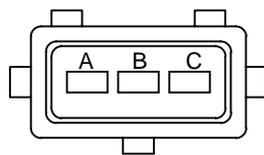
Performance

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



Connector Pin Out

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

Ordering Information

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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