

APS 02/03 - 05/01



Air pressure sensors, 2.0 / 3.0 bar absolute

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

Each pressure sensor exploits the piezo-resistive 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

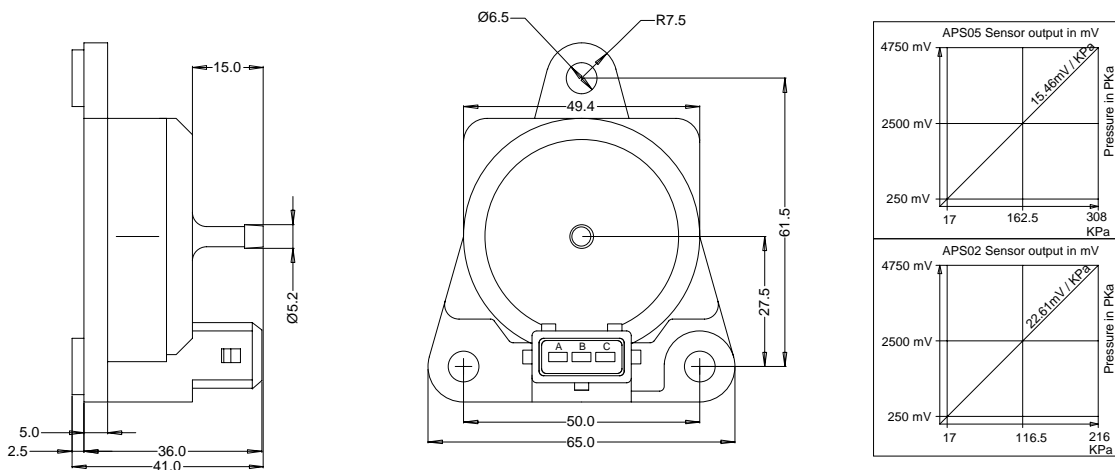
Dimensions (maximum) 77,5x65.0x41.0 mm
 Nozzle diameter 4.7 mm
 Weight 88.0 g
 Connector Mini-Timer 3 way

Performance

Pressure range:
 APS 02/03 17 ÷ 216 kPa
 APS 05/01 17 ÷ 308 kPa
 Operating temperature range -30 ÷ 110 °C
 Response time less than 7 ms
 Over pressure
 02/03 200 %
 05/01 450 kPa

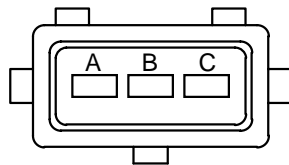
Electrical Characteristics

Power supply 5.00 Vdc ±0.5
 Output (min pressure) (at 5 Vdc supply) . 0.25 V
 Output (Full scale) (at 5 Vdc supply) 4.75 V
 Protection Short circuit



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 reversed.

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

Ordering Information

Description		Order code
APS 02/03	Air Pressure Transducer 216 kPa (2.16 bar max)	215810000900
APS 05	Air Pressure Transducer 308 kPa (3.08 bar max)	215810001101

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