

**APB5/APB5V Pressure/Vacuum Transmitter (0~5V, G1/4)**

The APB range of high accuracy, low cost ceramic pressure and vacuum transmitters are designed for use in most industrial applications and are suitable for the measurement of most pressure mediums.

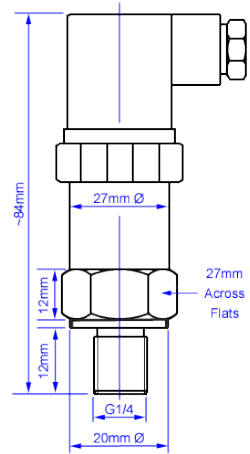
The transmitters incorporate a high quality thick-film ceramic sensor and special amplified circuit. Output is 0~5V DC (3-wire). The pressure diaphragm is made from ceramic material and its wetted parts are made from 316L stainless steel.

Because of the thermal stability of ceramic and its thick-film resistance, the transmitters can be operated at a higher temperature range; at the same time this makes the zero and sensitivity thermal shifts over the whole operating temperature range of the transmitter very small.

- 0~5V DC output signal
- G1/4 - 1/4" BSP(M) process connection
- Pressure and vacuum options
- Vast pressure measurement range
- Wide application scope and long service life
- Automatic testing and laser trimming compensating zero and sensitivity
- High accuracy and long-term stability
- Good anti-corrosion and anti-impact ability
- Available ranges from -1 to +100 bar
- IP65 rated



Technical Details	
<b>Pressure Medium</b>	Gas or liquid compatible with ceramic and stainless steel
<b>Pressure Range</b>	-1 ... 100 bar
<b>Overload Pressure</b>	150%FS
<b>Burst Pressure</b>	200%FS
<b>Output Signal</b>	0-5V DC (3-wire)
<b>Accuracy</b>	0.25%FS
<b>Load Resistance</b>	No limit
<b>Long-Term Stability</b>	< 0.2%FS/year
<b>Supply Voltage</b>	9-32VDC
<b>Compensated Temperature Range</b>	0~70°C
<b>Operating/Storage Temperature Range</b>	-20°C to +80°C / -30°C to +90°C
<b>Temperature Coefficient of Zero/Span</b>	0.3%FS/10°C
<b>Insulation Resistance</b>	100MΩ@50VDC
<b>Process Connection</b>	G1/4 - 1/4" BSP(M)
<b>Electrical Connection</b>	Hirschmann style connector (others available)
<b>Material of Wetted Part</b>	1Cr18Ni9Ti
<b>Material of Pressure Membrane</b>	Ceramic (Piezoresistive pressure sensor above 200 bar)
<b>Material of Housing</b>	1Cr18Ni9Ti
<b>Sealing</b>	N-Butyrylnitrile or Fluoro-Rubber Sealing Ring
<b>Ingress Protection Rating</b>	IP65 rated
<b>Speed of Response</b>	1ms



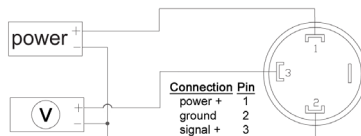
type	range (bar)	order code
Pressure	0 to 1.0	APB5-0010
Pressure	0 to 1.6	APB5-0016
Pressure	0 to 2.5	APB5-0025
Pressure	0 to 4.0	APB5-0040
Pressure	0 to 6.0	APB5-0060
Pressure	0 to 10.0	APB5-0100
Pressure	0 to 16.0	APB5-0160
Pressure	0 to 25.0	APB5-0250
Pressure	0 to 40.0	APB5-0400
Pressure	0 to 60.0	APB5-0600
Pressure	0 to 100.0	APB5-1000
Vacuum	-1 to 0.0 *	APB5V-0000
Vacuum	-1 to 1.5	APB5V-0015
Vacuum	-1 to 2.5	APB5V-0025



Main body terminals



Hirschmann style connector



0~5V (3-wire) output wiring example

\* supplied with a silicon element