APB3H/APB3HV Pressure/Vacuum Transmitter (4~20mA, G1/2)

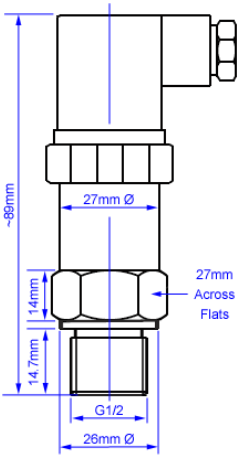
The APB range of high accuracy, low cost ceramic pressure and vacuum transmitters are designed for use in most industrial applications and are suitable for the measurement of most pressure mediums.

The transmitters incorporate a high quality thick-film ceramic sensor and special amplified circuit. Output is 4~20mA current loop (2-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.

- 4~20mA current loop output signal
- G1/2 - 1/2" 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 +600 bar
- IP65 rated

Technical Details	
Pressure Medium	Gas or liquid compatible with ceramic and stainless steel
Pressure Range	-1 ... 600 bar
Overload Pressure	150%FS
Burst Pressure	200%FS
Output Signal	4~20mA Current Loop (2-wire)
Accuracy	0.25%FS
Load Resistance	RL = (U - 6.5V) / 0.02A
Long-Term Stability	< 0.2%FS/year
Supply Voltage	9~32VDC
Compensated Temperature Range	0~70°C
Operating/Storage Temperature Range	-20°C to +80°C / -30°C to +90°C
Temperature Coefficient of Zero/Span	0.3%FS/10°C
Insulation Resistance	100MΩ@50VDC
Process Connection	G1/2 - 1/2" BSP(M)
Electrical Connection	Hirschmann style connector (others available)
Material of Wetted Part	1Cr18Ni9Ti
Material of Pressure Membrane	Ceramic (Piezoresistive pressure sensor above 200 bar)
Material of Housing	1Cr18Ni9Ti
Sealing	N-Butyronitrile or Fluoro-Rubber Sealing Ring
Ingress Protection Rating	IP65 rated
Speed of Response	1ms

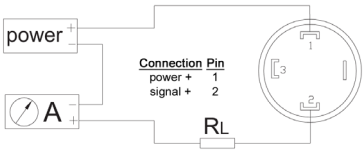


type	range (bar)	order code
Pressure	0 to 1.0	APB3H-0010
Pressure	0 to 1.6	APB3H-0016
Pressure	0 to 2.5	APB3H-0025
Pressure	0 to 4.0	APB3H-0040
Pressure	0 to 6.0	APB3H-0060
Pressure	0 to 10.0	APB3H-0100
Pressure	0 to 16.0	APB3H-0160
Pressure	0 to 25.0	APB3H-0250
Pressure	0 to 40.0	APB3H-0400
Pressure	0 to 60.0	APB3H-0600
Pressure	0 to 100.0	APB3H-1000
Pressure	0 to 160.0	APB3H-1600
Pressure	0 to 250.0	APB3H-2500
Pressure	0 to 400.0	APB3H-4000
Pressure	0 to 600.0	APB3H-6000
Vacuum	-1 to 0.0 *	APB3HV-0000
Vacuum	-1 to 1.5	APB3HV-0015
Vacuum	-1 to 2.5	APB3HV-0025

* supplied with a silicon element

Main body terminals

Hirschmann style connector



4~20mA (2-wire) output wiring example