APB2S Sanitary Pressure Transmitter with Flush Face Diaphragm (4~20mA, G1/2)

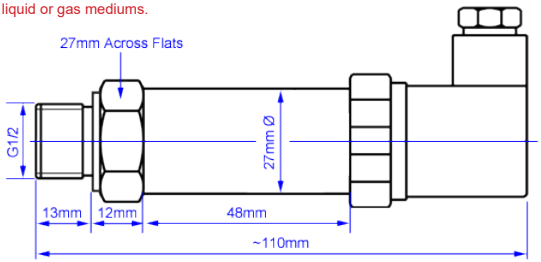
The APB2S range of sanitary pressure transmitters have a flush diaphragm which is suitable for the measurement of viscous fluids or media containing particulates that may clog the pressure connection of standard transmitters.

The transmitters have piezoresistive technology which incorporates a silicon sensor. The diaphragm and wetted parts are 316L stainless steel.

The stability of the silicon element allows the transmitter to 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...100 bar measuring ranges
- 4~20mA current loop output
- G1/2 - 1/2" BSP(M) process connection
- Flush membrane structure without input pressure hole & cavity
- Welded isolated diaphragm
- High accuracy, high strength, sanitary type
- Dimensions can be customised
- Gauge, absolute and sealed gauge pressure types

Note: the diaphragm is fragile and, ideally, should only be used with liquid or gas mediums.

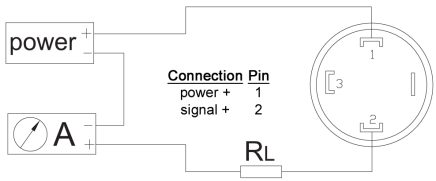


Flush Face Diaphragm

Technical Details	
Pressure Medium	Gas or liquid compatible with stainless steel
Pressure Range	0...100 bar
Overload Pressure / Burst Pressure	150%FS / 200%FS
Output Signal	4~20mA Current Loop (2-wire)
Accuracy	0.25%FS, 0.5%FS (standard)
Load Resistance	RL = (U - 6.5V) / 0.02A
Long-Term Stability	< 0.2%FS/year
Supply Voltage	9~32VDC
Compensated Temperature Range	0~60°C (0...0.35 bar)
Operating Temperature Range	-30°C to +85°C
Measured Media Temperature Range	-40°C to +125°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	316 Stainless Steel
Material of Pressure Membrane	316L Stainless Steel
Material of Housing	Stainless Steel
Speed of Response	1ms

range (bar)	order code
0 to 1.0	APB2S-0010
0 to 1.6	APB2S-0016
0 to 2.5	APB2S-0025
0 to 4.0	APB2S-0040
0 to 6.0	APB2S-0060
0 to 10.0	APB2S-0100
0 to 16.0	APB2S-0160
0 to 25.0	APB2S-0250
0 to 40.0	APB2S-0400
0 to 60.0	APB2S-0600
0 to 100.0	APB2S-1000

Main body terminals



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

Also available with a 2" clamp (APB2CL)