

Description

The APB3 range of 4~20mA high accuracy, low cost ceramic pressure transmitters are designed for use in most industrial applications and are suitable for the measurement of most pressure mediums (including corrosive). The transmitters incorporate a high quality thick-film ceramic sensor and special amplified circuit. Output is configured to 4~20mA current loop (0~5V, 0~10V and 1~5V also available). 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 transmitter can be operated at a higher temperature range; at the same time, this also makes the zero and sensitivity thermal shifts over the whole operating temperature range of the transmitter very small.

Features

- 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

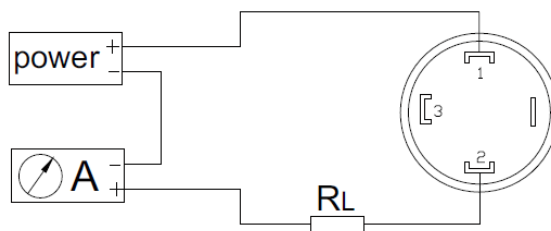


Specification

Pressure Medium	Gas or liquid compatible with ceramic and stainless steel
Pressure Range	0~1 bar ... 0~100 bar
Overload Pressure	150%FS
Output Signal	4~20mA (0~5V, 0~10V, 1~5V also available on request)
Accuracy	0.25%FS
Load Resistance	$RL=(U-12V)/0.02A(4\sim 20mA \text{ current output})$ U—loop voltage (V)
Long-Term Stability	<0.2%FS/year
Supply Voltage	12~36VDC
Compensated Temperature Range	0~70°C
Operating Temperature Range	-30~95°C
Storage Temperature Range	-40~100°C
Temperature Coefficient Of Zero	0.3%FS/10°C
Temperature Coefficient Of Span	0.3%FS/10°C
Insulation Resistance	100MΩ@50VDC
Process Connection	G 1/4 (G 1/2 available on request)
Electrical Connection	Hirschmann connector (others available)
Material of Wetted Part	1Cr18Ni9Ti
Material of Pressure Membrane	Ceramic
Material of Housing	1Cr18Ni9Ti
Sealing	N-Butyronitrile or Fluoro-Rubber Sealing Ring

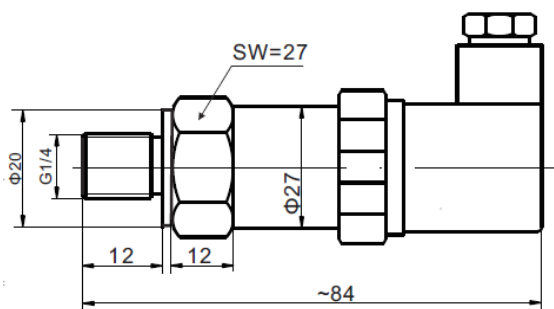
Electrical Connection

connection	cable color(pin)
power“+”	red(1)
signal“+”	black(2)



wiring drawing of two-wire 4~20mA output (hirschmann)

Dimensions



note: this product can be made according to customer's required dimensions.

Ordering Code

APB3						
	Range	Measuring Range: 0~1 bar ... 0~100 bar				
	(0~X) bar	X: required measuring range				
		Code	Output			
		O1	4~20mA			
		O2	0~5V			
		O3	1~5V			
		O4	0~10V			
			Code	Accuracy		
			C	0.25%FS		
			D	0.5%FS		
				Code	Process Connection	
				P1	G1/4	
				P3	1/4NPT	
				P4	M20*1.5	
				Pz	Customer Request	
					Code	Electrical Connection
					E1	Hirschmann Connector
					E2	Aviation Connector
					E3	Shielded PVC Cable
					Ez	Customer Request
APB3	(0~100) bar	O1	D	P3	E1	