

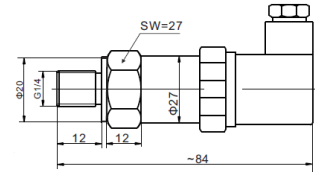
APB3 High Accuracy, Low Cost Pressure/Vacuum Transmitter (4~20mA Output)

The APB3 range of 4~20mA 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 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 makes the zero and sensitivity thermal shifts over the whole operating temperature range of the transmitter very small.

- Pressure and vacuum options available
- 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



Technical Details	
Pressure Medium	Gas or liquid compatible with ceramic and stainless steel
Pressure Range (APB3)	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(4~20mA 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°C to +95°C
Storage Temperature Range	-40°C to +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

Type	Range (bar)	Order Code
Pressure	0 to 1.0	APB3-0010
Pressure	0 to 1.6	APB3-0016
Pressure	0 to 2.5	APB3-0025
Pressure	0 to 4.0	APB3-0040
Pressure	0 to 6.0	APB3-0060
Pressure	0 to 10.0	APB3-0100
Pressure	0 to 16.0	APB3-0160
Pressure	0 to 25.0	APB3-0250
Pressure	0 to 40.0	APB3-0400
Pressure	0 to 60.0	APB3-0600
Pressure	0 to 100.0	APB3-1000
Vacuum	-1 to 0.0	APB3V-0000
Vacuum	-1 to 1.5	APB3V-0015
Vacuum	-1 to 2.5	APB3V-0025

A10 Pressure Transmitter (4~20mA Output)

Threaded as standard 1/4" BSPP. Available ranges from 0 to 1 bar up to 0 to 600 bar. The Wika A10 range of 4~20mA pressure transmitters have been designed to cover the majority of industrial applications (e.g. machine building, machine tools, measurement and control technology, hydraulics and pneumatics, pumps and compressors). The A10 offers excellent quality and reliability with exceptionally simple installation, set-up and operation. Supplied with a free test report showing the points recorded during manufacture.

- 0..1 up to 0..600 bar measuring ranges
- 4~20mA output
- 1/4" BSPP thread
- Designed to cover the majority of industrial applications



Technical Details	
Case and Wetted Parts	316L Stainless Steel
L-Connector	DIN 175301-803A
Power Supply	10~30V DC
Output	4~20mA
Response Time (10~90%)	Normally ≤ 4ms
Insulation Voltage	500 V DC
Accuracy	0.5% of span
Ambient Operating Temperature	-30°C to +80°C
Relative Humidity	45-75%
Wiring Protection	Protected against reverse polarity and short circuiting on the instrument side
Weight	150g approximate

Range (bar)	Order Code
0 to 1.0	A10-0010
0 to 1.6	A10-0016
0 to 2.5	A10-0025
0 to 4.0	A10-0040
0 to 6.0	A10-0060
0 to 10.0	A10-0100
0 to 16.0	A10-0160
0 to 25.0	A10-0250
0 to 40.0	A10-0400
0 to 60.0	A10-0600
0 to 100.0	A10-1000
0 to 160.0	A10-1600
0 to 250.0	A10-2500
0 to 400.0	A10-4000
0 to 600.0	A10-6000

0~5V, 1~5V, 0~10V and higher accuracy versions also available (contact sales for information)

