



Specifications

- Pressure range:
 - 0-25mbar / 0-1000 bar (gauge pressure)
 - 0-400mbar / 0-1000 bar (absolute pressure)
- Housing connector DIN 43650 IP65
- Output signal: 4-20mA two wire transmission
- Error due to supply voltage changes: 0,005 %/V
- Supply voltage: 10,5-36 V DC (rated 24V DC)
- Ambient temperature: -40 to +80°C
- Process temperature limit: -40 / 120°C – direct measurement
- Thermal compensation range: -10 / 80°C
- Relative humidity: 0 / 98%
- Vibration during operation: max 4g
- Diaphragm: Stainless steel 1.4435 (316L)
- Sensing module: Stainless steel 1.4404 (316L)
- Casing for electronic parts: Steel pipe, 1.4301 (304)
- Internal sensor liquids fill: Silicone oil, chemically inactive liquid for measurement of oxygen
- Protection Degree Casing: IP65 rated (EN 60529:2003)
- Process connections: standard ½” BSP also ¼” BSP, M20x1.5

Introduction

The PCI280 series pressure transmitter are designed to measure gauge pressure, vacuum pressure and absolute pressure of gases, vapours and liquids. It's stainless steel housing is ideal for industrial environments. Special circuits are built in to allow adjustment of zero and span.

Application and construction

The PCI280 pressure transmitter is applicable to the measurement of the pressure, underpressure and absolute pressure of gases, vapours and liquids. The active sensing element is a piezoresistant silicon sensor separated from the medium by a diaphragm. The electronics is placed in a casing with a degree of protection from IP65 to IP68, depending on the type of electrical connection applied.

Available certification

- 2.1 Certificate of Conformity
- Test Certificate for indication accuracy
- Others on request

Calibration

Potentiometers can be used to shift the zero position and the range by up to ±10%, without altering the settings.

Options

- Fitted with diaphragm seal
- Oxygen service
- Accuracy <0,16% (available for ranges <400mbar)
- Measuring units: bar, MPa, kPa, etc.
- Output signal 0...10V DC, 0...2,5V DC, 0...3,3V DC, 0...5V DC, 0,5...4,5V
- Hart (PCI 280 SMART model)
- Digital display
- Other casing, electrical connections and process connections

How to order

Please specify: model, range, process connection, options, certificates

	Measurement Ranges		
	100mbar	400mbar	0...1/1000bar
Overpressure limit (repeatable, no hysteresis)	1bar	2.5bar	4 x range Max 1200bar
Damaging over pressure	2bar	5bar	8 x range, max 2000bar
Accuracy	0.3%	0.2% (0.16 % special version)	
Thermal error	typically 0.3% / 10°C, max 0.4% / 10 °C		typically 0.2% /10°C, max 0.3% / 10°C
Long term stability	0.2% / year	0.1 % / year	
Hysteresis and repeatability	0.05%		