



Pressure sensors
Pressure switches
Accessories



SKV-tec
High quality at fair prices



Pressure sensor PT23

This sensor was developed on the basis of the PT2 series with the aim of measuring higher temperatures economically. Therefore the sensor is equipped with cooling fins for medium temperatures of up to 260°C. Furthermore the sensor is outfitted with a FFKM seal. Besides the usual sensor tasks, such as providing input for feedback loops and constant surveillance, this sensor can also replace pressure switches. Due to the high-quality materials, it is compatible with a large number of mediums. The sensor is temperature-compensated up to 80°C, increasing the accuracy of the measurements.

Certain options are available as special orders, for example output signals with lower voltage to be used with single-board computers, different electrical connections and other threads for medium connections.

Technical data:

| | | |
|--------------------------|--|--|
| Signal (Power supply) | Two-wire design: | 4~20 mA (12~30 VDC) |
| | Three-wire design: | 0~10 V (12~30 VDC/AC) <u>on request:</u> 0.5~4.5 V (5 VDC) 0/1~5 V (10~30 VDC/AC) |
| | Four-wire design: | <u>on request:</u> RS485 (24 VDC) |
| Measurement range | -1 to 1 bar -1 to 0 bar 0 to 1 bar 0 to 2 bar 0 to 4 bar 0 to 16 bar 0 to 40 bar 0 to 100 bar others on request | |
| Overload pressure | 1,5x f.s. | |
| Burst pressure | 3x f.s. | |
| Accuracy | 0.5% f.s. | |
| Long term stability | Typical 0.5%, max. 1.0% f.s. | |
| Permissible temperatures | Operating temperature: -20°C to 85°C Compensated temperature range: -10°C to 80°C Storage temperature: -50°C to 125°C Medium temperature: Up to 260°C | |
| Permissible mediums | Mediums compatible with 1Cr18Ni9Ti stainless steel and ceramics | |
| Medium connections | Usually G 1/4", others on request | |
| Electrical resistance | Two-wire: 0,02 Ω Three-wire: >100 kΩ | |
| Electrical connections | - Packard - M12 (4-pole) - DIN43650A | |
| Degree of protection | IP 65 | |
| Size | 169 mm(Height), 24mm wrench size (also largest diameter) | |

Stand: 06/2024; Änderung vorbehalten, Right of modification reserved, Sous réserve des modifications

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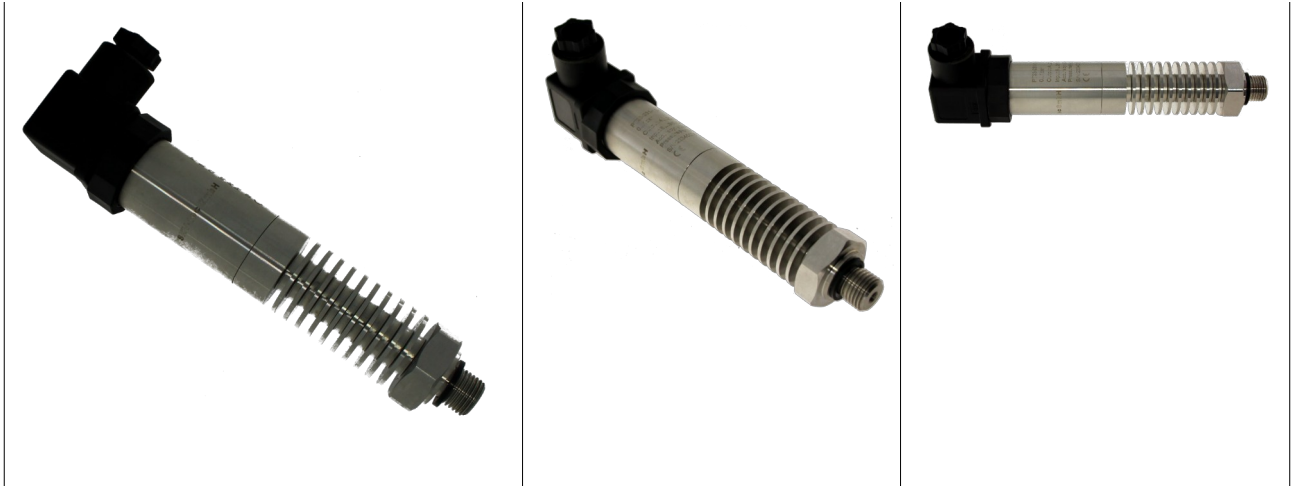
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Pictures:



Article code:

| PT23 | - | X | X | X | - | X | X | (- X) |
|--|---|---|---|---|---|---|---|-------|
| Model | | | | | | | | |
| Signal: 2 = 2-wire: 4~20 mA (12~30 VDC) 3 = 3-wire: 0~10 V (12~30 VDC/AC) 4 = 3-wire: 0.5~4.5 V (5 VDC) 5 = 3-wire: 0/1~5 V (10~30 VDC/AC) 6 = 4-wire: RS485 (24VDC) | | | | | | | | |
| Measurement range: 1 = -1 to 1 bar 2 = -1 to 0 bar 3 = 0 to x bar (last column) → Maximum pressure in bar | | | | | | | | |
| Accuracy: 1 = 0,5% | | | | | | | | |
| Medium connection: 1 = G 1/4" 2 = M20 x 1,5 | | | | | | | | |
| Electrical Connection: 1 = Packard 2 = M12 3 = DIN43650A 4 = DIN43650C 5 = Cable | | | | | | | | |

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PT2X Series Pressure transmitter

User Guide

1. Electrical Connection

| Electrical Connection | Schematic Drawing | 4~20mA | 0.5~4.5V/0~5V 0~10V | RS485 |
|-----------------------|-------------------|--------------------|-------------------------------|---------------------------------------|
| GX12-3P | | 1.Red 2.Black | 1.Red 2.Black 3.Green | |
| Packard | | A.Black B.Red | A.Black B.Red C.Green | |
| Hirschmann | | 1.Red 2.Black | 1.Red 2.Green 3.Black | 1.Red 2.Green 3.White 4.Black |
| GX12-4P | | 1.Red 2.Black | 1.Red 2.Black 3.Green | 1.Red 2.Green 3.White 4.Black |
| M12-4P | | 1.Brown 3.Blue | 1.Brown 3.Blue 4.Black | 1.Brown 2.White 3.Blue 4.Black |
| Direct lead | | 1.Red 4.Black | 1.Red 2.Green 4.Black | 1.Red 2.Green 3.White 4.Black |

2. Supply Voltage

| | | | | | | |
|---------|----------|--------------------------|----------------------|----------|----------|----------|
| Output | 4~20mA | 0.5~4.5V Proportional | 0.5~4.5V Absolute | 0~5V | 0~10V | RS485 |
| Voltage | 10~36VDC | 4.75~5.25VDC | 4.75~5.25VDC | 10~36VDC | 12~36VDC | 10~30VDC |

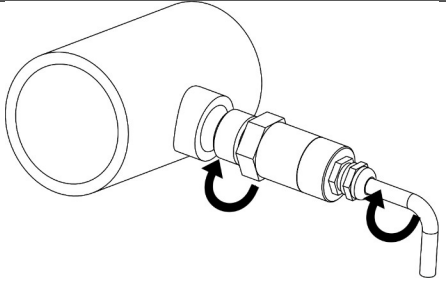
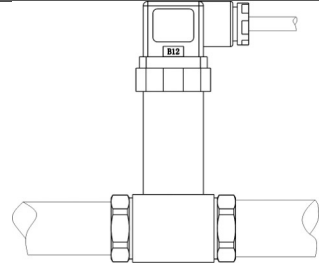
*Addition: When PT21 output is 0~10V, the working voltage is 14~30V; when PT27 absolute output is 0.5~4.5V, the working voltage is 5~15V

3. Working Temperature

| | |
|---------------------|-------------------------|
| Working Temperature | Model |
| -20~85°C | PT2,PT21,PT23,PT28,PT25 |
| -40~120°C | PT27,PT26 |

*Addition: The PT23 can be used to measure high temperature media: 5 heat sink for 180°C; 10 heat sink for 260°C

4. Installation

| | |
|--|--|
|  |  |
| The wire and sensor rotate at the same time to prevent the wire from being twisted off | PT25 differential pressure transmitter should be mounted horizontally. |

5. Medium

| | |
|--|------------------------------|
| medium | Model |
| Medium compatible with R12, R22, R134A, R404A, R407C, R410A, R502, R507 | PT26 |
| Gas or liquid compatible with 304 and 316L stainless steel, fluorine rubber ring or NBR | PT21,PT23,PT25 PT27, PT28 |
| Gases or liquids compatible with 1Cr18Ni9Ti, 304 stainless steel, fluorine rubber ring or Nitrile rubber | PT2 |