



Pressure sensors
Pressure switches
Accessories



SKV-tec
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Pressure sensor PT27

This thinfilm pressure sensor was developed to measure the pressure in mediums, which can clog up conventional sensors in a short time. With this sensor, the usual measurements can be carried out even in these mediums. The sensor is based on the PT2 series and carries over a lot of the characteristics, such as the temperature compensation.

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: -40°C to 100°C | |
| Permissible mediums | Mediums compatible with 1Cr18Ni9Ti stainless steel and ceramics | |
| Medium connections | Usually G 1/2", 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 67 | |
| Size | 169 mm(Height), 24mm wrench size (also largest diameter) | |

Stand: 11/2023; Änderung vorbehalten, Right of modification reserved, Sous réserve des modifications

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Pictures:



Article code:

| | | | | | | | | |
|------------------------------------|---|---|---|---|---|---|---|-------------------------|
| PT27 | - | 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: | | | | | | | | Maximum pressure in bar |
| 1 = -1 to 1 bar | | | | | | | | |
| 2 = -1 to 0 bar | | | | | | | | |
| 3 = 0 to x bar (last column) | | | | | | | | |
| Accuracy: | | | | | | | | |
| 1 = 0,5% | | | | | | | | |
| Medium connection: | | | | | | | | |
| 3 = G 1/2" | | | | | | | | |
| Electrical Connection: | | | | | | | | |
| 1 = Packard | | | | | | | | |
| 2 = M12 | | | | | | | | |
| 3 = DIN43650A | | | | | | | | |
| 4 = DIN43650C | | | | | | | | |
| 5 = Cable | | | | | | | | |

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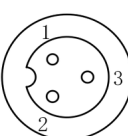
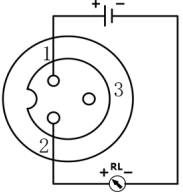
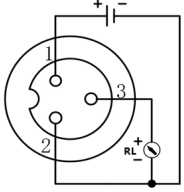
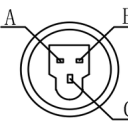
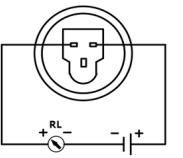
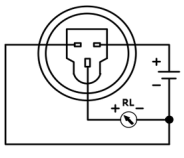
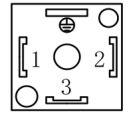
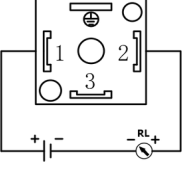
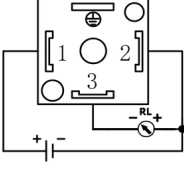
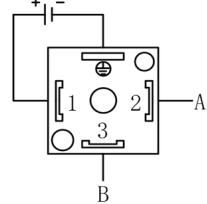
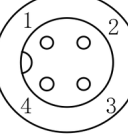
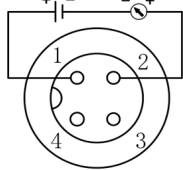
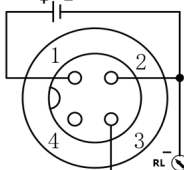
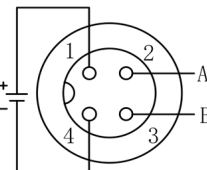
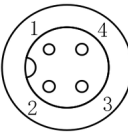
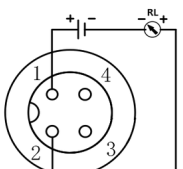
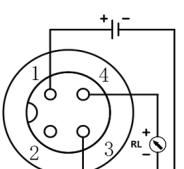
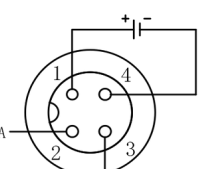
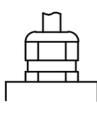
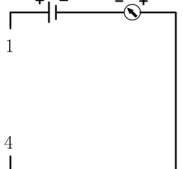
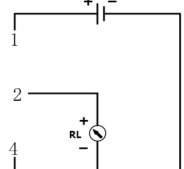
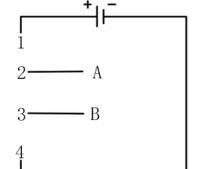
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PT2X Series Pressure transmitter

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 2.White |  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 |

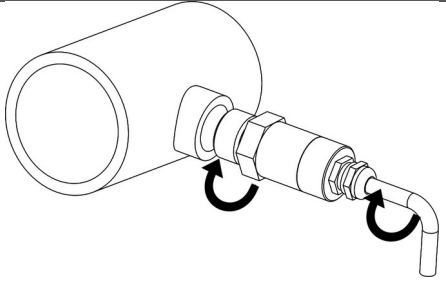
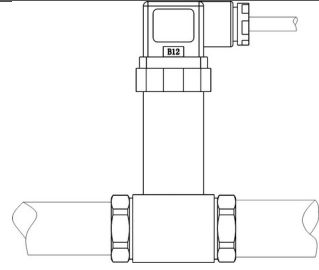
* Addition: When PT21 output is 0~10V, the working voltage is 14~30V; when PT27 absolute output is 0.5-4.5V, the working voltage is 5-15V

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 |