



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 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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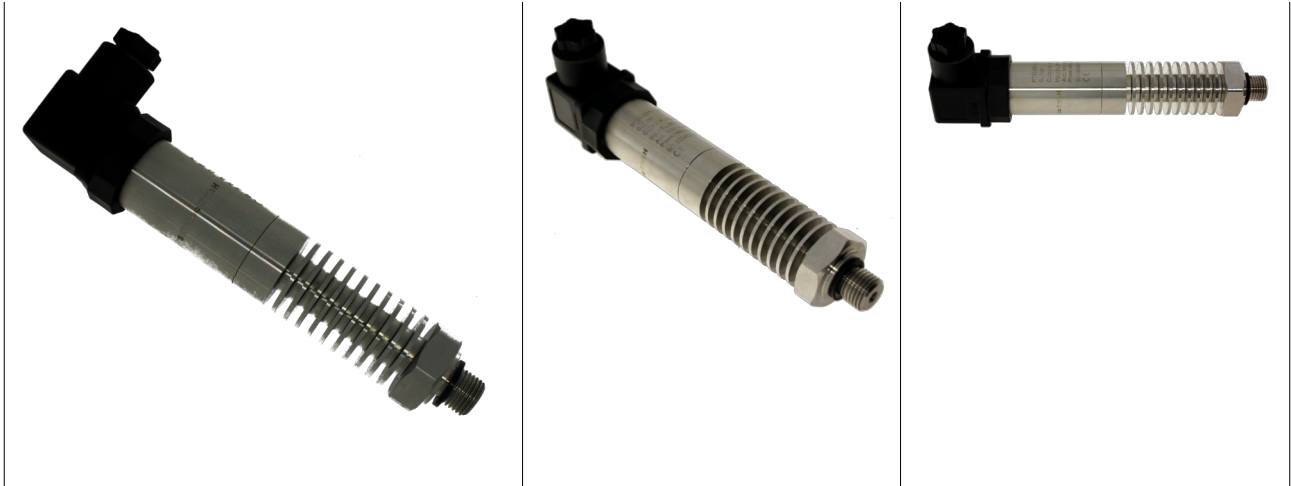
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Pictures:



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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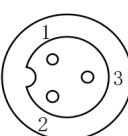
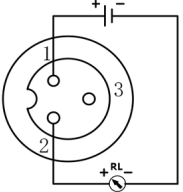
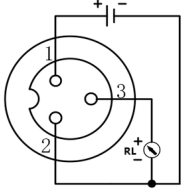
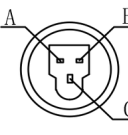
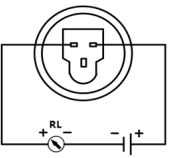
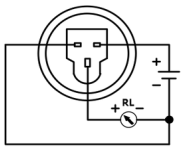
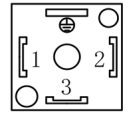
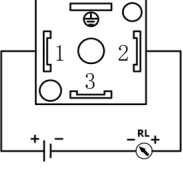
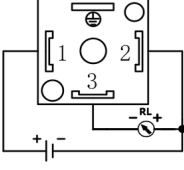
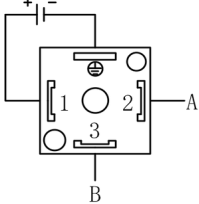
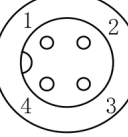
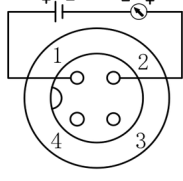
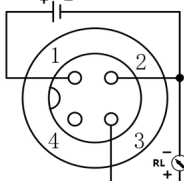
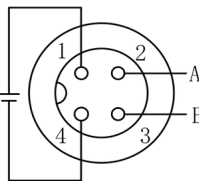
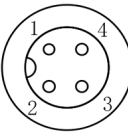
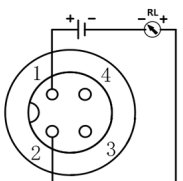
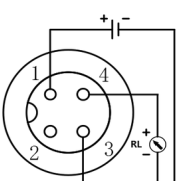
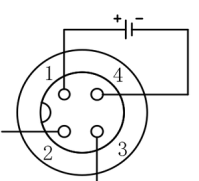
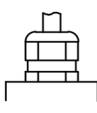
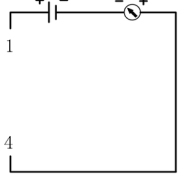
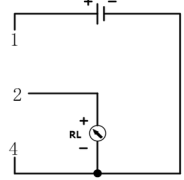
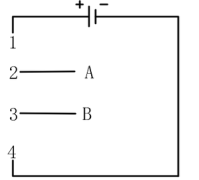
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PT2X Series Pressure transmitter

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 2.Green 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

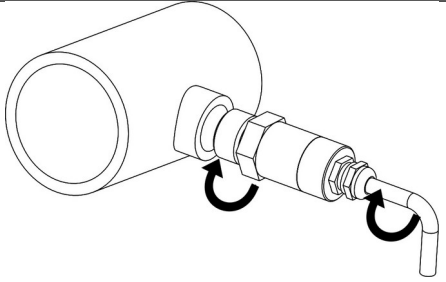
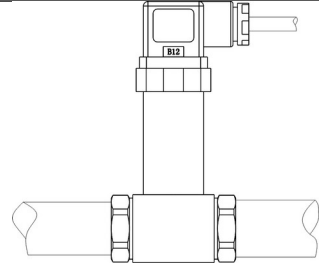
* Addition: When PT21 output is 0~10V, the working voltage is 14~30V; when PT27 absolute output is 0.5-4.5V, the working voltage is 5-15V

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