



CNXPT Pressure Transmitter

Introduction:

The Connexion CNXPT pressure transmitter adopts the HT series diffusion silicon isolation oil-filled core as the signal measuring element. The signal processing circuit is located inside a stainless-steel housing, converting the sensor signal into a standard output signal. The product has undergone rigorous testing and aging screening for components, semi-finished products, and finished products, ensuring stable and reliable performance.

Product Features:

- Wide measurement range, stainless steel structure, Various pressure interface options
- Diverse output signal options
- Adjustable zero and full-scale
- High accuracy

Applications:

- Suitable for measuring non-corrosive gases and liquids with 316L
- Applied in industrial on-site processes such as petroleum, chemical, metallurgy, power generation, and hydrology
- Used in the marine and aviation industries
- Suitable for hydraulic and pneumatic control systems



Notes:

- 1、 Do not touch the isolation diaphragm with hard objects.
- 2、 Follow the specified wiring method to avoid causing safety incidents.

Performance Parameters	
Measurement Range	-1 Bar...0 Bar ~ 0.1 Bar...1000 Bar
Pressure Type	Gauge Pressure (35 Bar Max), Absolute Pressure, Sealed Pressure
Overload	≤ 1.5 times of the rated range
Accuracy @ 25°C	±0.25% (Typical) ±0.5% (Maximum)
Repeatability& Hysteresis	0.02%F.S(Typ.) 0.05%F.S(Max.)
Long-Term Stability	±0.1%F.S/Year (Typ.) ±0.2%F.S/Year (Max.)

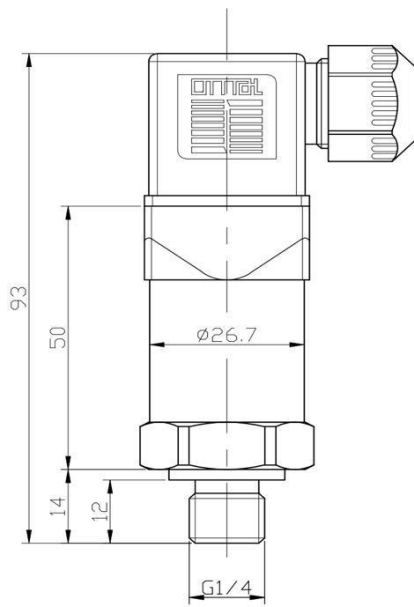
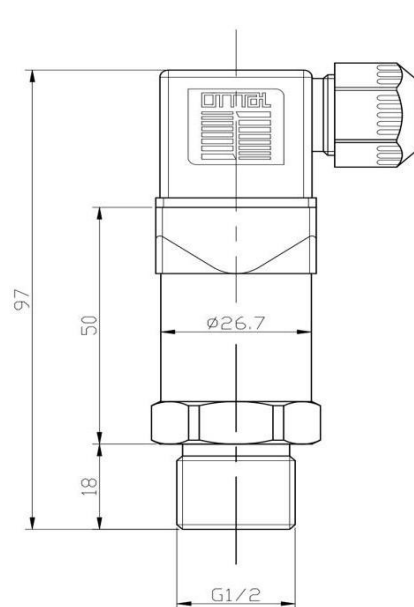
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Performance Parameters (Continued)	
Zero Point Temperature Drift	$\pm 0.02\%F.S/^{\circ}C$ ($\leq 100KPa$) $\pm 0.01\%F.S/^{\circ}C$ ($> 100KPa$)
Full Scale Temperature Drift	$\pm 0.02\%F.S/^{\circ}C$ ($\leq 100KPa$) $\pm 0.01\%F.S/^{\circ}C$ ($> 100KPa$)
Compensation Temperature	0-70°C ($\leq 10mpa$, customizable)
Operating Temperature	-20°C~80°C
Storage Temperature	-40°C~120°C
Vibration	10g, 55Hz ~ 2kHz
Housing Material	304 or 316L
Diaphragm Material	316L
Insulation Resistance	100M Ω 100VDC
Explosion-proof Rating	Ex db IIC T6 Gb
Protection Rating	IP65
O-Ring Seal	Fluoro rubber
Weight	~0.2kg

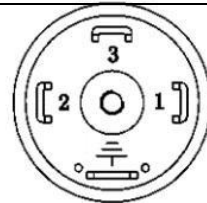
Output Signal	Supply Voltage	Output Type
4 ~ 20mA	12 ~ 30VDC	2/3/4 wire
0 ~ 10/20mA		3 wire
0/1 ~ 5V		
0/1 ~ 10V		
0.5 ~ 4.5V		
RS485 Communication Protocol	5VDC	4 wire
	3.6 ~ 30V / Battery	

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Outline Construction

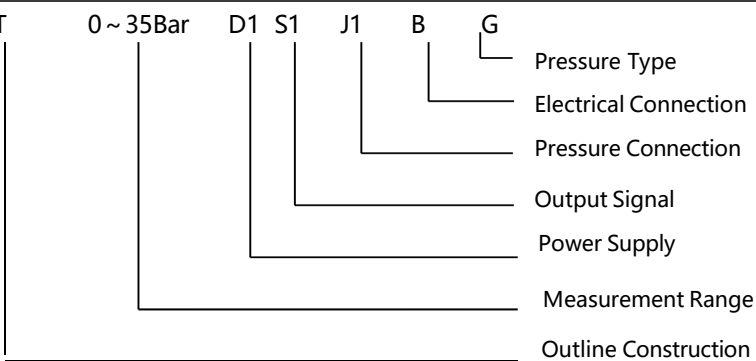
Type	G1/4	G1/2
Dimension		

Electrical Connection

Hirschmann				
	4-20mA	1	V+	Red
		2	V-	Yellow
		4	GND	Null
	0.5-4.5VDC /0-10VDC	1	V+	Red
		2	V-	Yellow
		3	OUT+	Blue
		4	GND	Null

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Selection Examples



1. When selecting the product, please ensure that the medium to be measured is compatible with the contact parts of the product.
2. When placing an order, please note that explosion-proof type products do not include digital display heads.
3. When ordering transmitters with an LCD or LED display head, the power supply for the transmitter should not be lower than 20VDC.
4. To ensure reliable operation of the product, it is recommended that users install lightning protection devices on-site and ensure that the product and power supply are reliably grounded.
5. The rated working temperature range of the Fluoro rubber O-ring is -20°C to 250°C. When the product's operating temperature is below -20°C, it is necessary to choose an EPDM O-ring seal.
6. The default cable length is 1.5m, available in three materials. If not specified, it will be supplied with polyethylene cable material. If you require different cable material, please specify it in the order.
7. For special requirements such as strong vibration, instantaneous impact force, strong electromagnetic or radio frequency interference, please inform us to specify order

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Order Guide																				
CNXPTXX	Pressure Transmitter																			
	Code	Outline Construction																		
	CNX PT	General Pressure Transmitter		CNX IX	Display Pressure Transmitter															
	CNX IE	Shock-resistant Aviation Pressure Transmitter		CNX IIC/III	Industrial General/ Display Pressure Transmitter															
	CNX IF	Moisture-proof Pressure Transmitter		CNX IIE/IIIE	General/Display Pressure Transmitter															
	CNX IN	Air Conditioning Dedicated Pressure Transmitter		CNX IC	High-temperature Pressure Transmitter															
	CNXIQ/IQT	Large Diaphragm /High-temperature Pressure Transmitter																		
		Measurement Range	-1 Bar. . .0 ~ 0.01. . . . 1000 Bar (100Mpa)																	
		(0-X)Kpa or MPa	X: Indicates the Actual Measuring Range																	
				Code	Power Supply															
				D1	24VDC															
				D2	5VDC															
				D3	Other															
						Code	Output Signal													
						S1	4 ~ 20mADC	S5	0 ~ 20mADC											
						S2	1 ~ 5VDC	S6	0 ~ 10VDC											
						S3	0 ~ 5VDC	S7	0.5 ~ 4.5VDC											
						S4	0 ~ 10mADC													
									Code	Pressure Connection										
									J1	M20×1.5										
									J2	G1/2										
									J3	G1/4										
									J4	7/16-20UNF										
									J5	Other										
													Code	Electrical Connection						
													B1	Hirschmann						
													B2	PG7 Plug						
													B3	Sealed Cable Output						
B4													2088 Industrial Casing							
B5													2088 Industrial Casing with Display							
B6													Other							
																	Code	Pressure Type		
																	G	Gauge Pressure		
	A																Absolute Pressure			
	S																Sealed Reference Pressure			