CS-PT1200 Series General Pressure Transmitter

Product Features

- Ceramic piezo-resistive sensing element
- Measuring range: 0～50bar Gauge
- Accuracy: 0.5 %BFSL or 1%BFSL
- Output: 4 ... 20 mA, DC 0 ... 10 V, DC 0 ... 5 V etc.
- Electrical connection: DIN43650C, Packard, M12x1, Cable outlet with waterproof joint, Sheathed cable outlet etc.
- Pressure connection: G1/4, 7/16-20UNF-2B female, 7/16-20UNF-2A male, NPT1/4, G1/2 etc.
- High accuracy and high cost performance
- Suitable for mass production

Applications

- General pressure measurement
- Machinery manufacturing
- Measurement and control technology
- Hydraulic and pneumatic technology
- Pumps and compressors

Product Description

Designed for general industrial application, CS-PT1200 series pressure transmitters feature compact structure, stable quality and high cost performance.

CE and RoHS certification enables extensive use of CS-PT1200 series pressure transmitters all over the world. We can supply you in short term products with different pressure units and pressure connections to meet your specific applications.

Performance Parameters

Temperature: 25℃, power: 5VDC or 12VDC, RH: 45%~75%, Atmospheric pressure: 86KPa～106KPa

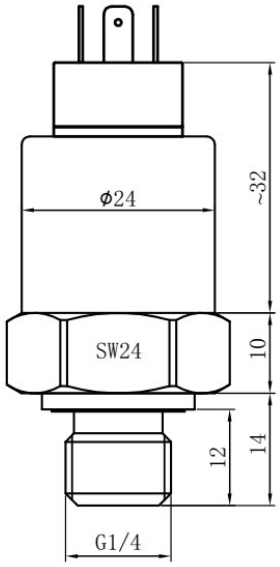
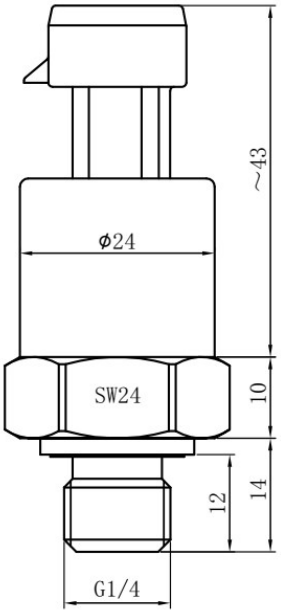
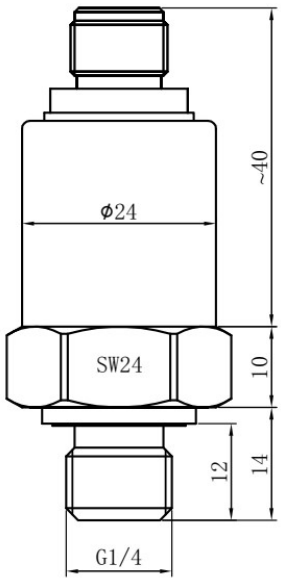
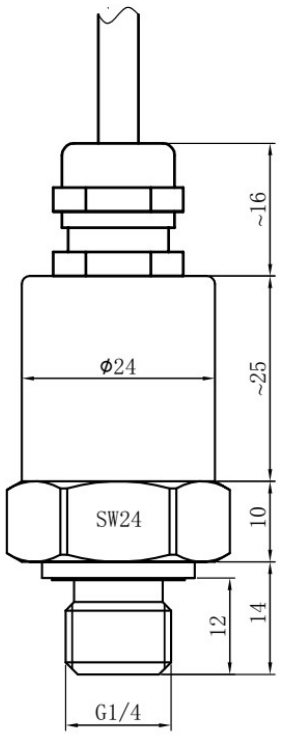
Pressure Range	0～50bar Gauge			
Output Signal	0.5～4.5VRatio	0～10V Voltage	0～5V Voltage	4mA～20mA
Power supply (U+)	5VDC	12～30VDC	10VDC～30VDC	
Output Load	≥10KΩ			≤ (U+ - 10) / 0.023Ω
Over Voltage	16VDC	30VDC		
Reverse Voltage	-16VDC	-30VDC		

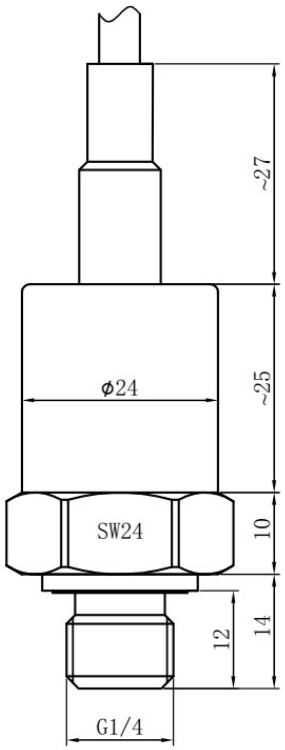
Accuracy at Room Temperature	Default: ±0.5% F.S., Option:±1.0% F.S. (see Note 1)
Medium Temperature	-30～120℃ (see Note 2)
Working Temperature	-20～85℃
Storage Temperature	-40℃~105℃
Long-term Stability	±0.5%F.S / year
Settling Time	(10%～90%) ≤10ms
Overload Pressure	≥ 150%F.S
Burst Pressure	≥ 200%F.S
Pressure Connection	G1/4, 7/16-20UNF-2B female, 7/16-20UNF-2A male, NPT1/4, G1/2
Electrical Connection	DIN43650C, Packard, M12x1, Cable outlet, Sheathed cable outlet
Sealings Materials for Wetted Part	Default: NBR, Option: FKM
Housing Material	Default: 304 stainless steel, Option: 316L stainless steel.
Insulation Resistance	≥ 100MΩ@100VDC
Vibration Resistance	10g, 5~2000Hz
Shock Resistance	20g, 11ms half sine
Ingress Protection	≥ IP65

Note 1: For products with pressure range 0~5 bar (5bar included), only ±1.0%F.S accuracy is available.

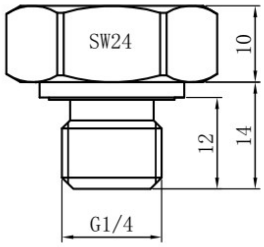
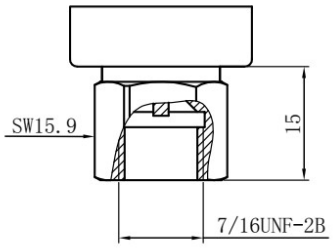
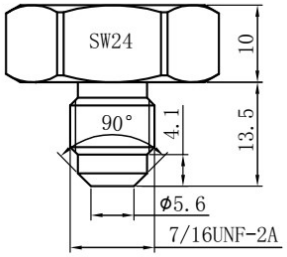
Note 2: The choice of seal materials mainly depends on the temperature of the medium to be measured. The default material is NBR, which is suitable for medium temperature of -30～120℃. If one chooses FKM seal ring, the medium temperature should be somewhere between -20～125℃. Please specify if the medium temperature exceeds 85℃ for long.

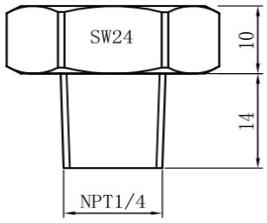
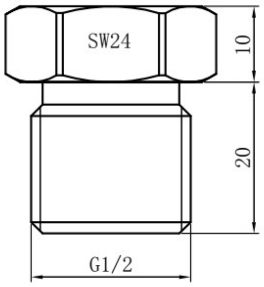
Structures and Dimensions

DIN43650C connector	Packard connector
	
M12x1 4-pin connector	**Cable outlet**
	

Sheathed cable outlet	
	

Pressure Connection

G1/4	7/16-20UNF-2B	7/16-20UNF-2A
		

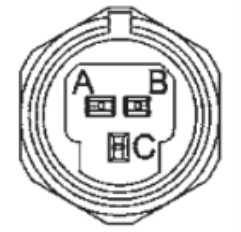
NPT1/4	G1/2
	

Wiring Definition

DIN43650C Connector

Pin	2-wire		3-wire	
	Definition	Wire Color	Definition	Wire Color
1	Power	Red	Power	Red
2	Output	Green / Blue	GND	Black
3			Output	Green/ Blue
⏚	Shield	Black	Shield	Yellow

Packard Connector



Pin	2-wire		3-wire	
	Definition	Wire Color	Definition	Wire Color
A	Shield	Black	GND	Black
B	Power	Red	Power	Red
C	Output	Green / Blue	Output	Green / Blue
				Yellow (Shield)

M12x1 4-pin Connector

Pin	2-wire		3-wire	
	Definition	Wire Color	Definition	Wire Color
1	Power	Red	Power	Red
2	Output	Green / Blue	Output	Green / Blue
3			GND	Black
4	Shield	Black	Shield	Yellow

Cable Outlet

Wire Color	Pin Definition	
	2-wire	3-wire
Red	Power	Power
Green / Blue	Output	Output
Black	Shield	GND
Yellow		Shield

Ordering Guide

PT1200 Series Pressure Transmitter

Code	Measuring Range
X	X stands for actual pressure measuring range

Code	Pressure Connection
G1/4	G1/4
7/16U(F)	7/16-20UNF-2B
7/16U	7/16-20UNF-2A
NPT1/4	NPT1/4
G1/2	G1/2

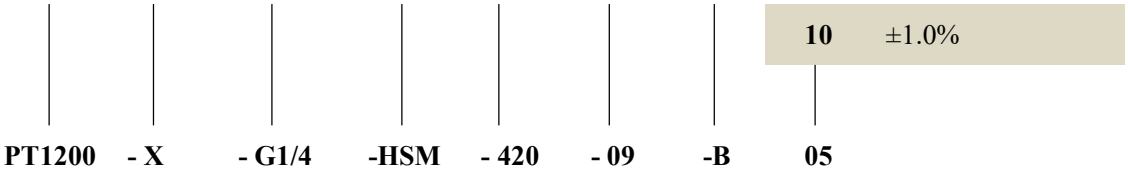
Code	Electrical Connection
HSM	DIN43650C connector
P	Packard connector
M12	M12 x 1 connector
CW	Cable outlet
C1	Sheathed cable outlet

Code	Output
420	4～20mA
0545R	0.5～4.5VRatio Voltage
0050	0～5V Voltage
010	0～10V Voltage

Code	Power Supply
09	10～30VDC
03	(5±0.25) VDC
13	12～30VDC

Code	Seal Material
B	NBR
F	FKM

Code	Accuracy
05	±0.5%



Notice:

a. The pressure transmitter must be used in a medium that is non-corrosive to the seal material and the housing material.

b. In case the pressure guiding hole of the transmitter is blocked, it is forbidden to use sharp tools to clear it. Instead, one should remove the transmitter from the system, immerse the pressure guiding hole part in the liquid which can dissolve the blockage, and then the blockage will flow out easily.

c. It's prohibited to open the transmitter by users for calibration or repair.

d. Please contact Chinastar if you're not sure whether the transmitter is suitable for the medium to be measured.

e. The transmitter should be installed in a location that is not easily bumped or stepped on.

f. Exceeding of the transmitter overload pressure may cause permanent damage.

g. Where lightning may occur, customers should consider lightning protection measures.

Statement

Chinastar Company reserves the right to modify the specifications and contents of this instruction. No further notice will be given if any changes are made. Due to product updates, the individual details of this document may not match the product. Please refer to the actual product. The right to interpret this document belongs to Chinastar Company.