

PCM303W Transmitter (Pressure + Temperature)

Features

- Built-in PT100 /PT1000 platinum resistor
- 316L stainless steel isolation diaphragm structure
- High precision, all stainless steel structure
- Wide measuring range, capable of measuring absolute pressure, gauge pressure and sealed pressure
- Vibration and shock resistance



- Process Control
- Aviation and aerospace
- Automobiles, medical equipment
- Pipeline system

Notice:

- 1. Do not touch the diaphragm with hard objects, as this may damage the isolation diaphragm.
- 2. Before installation, please read the product manual carefully and check the relevant information of the product.
- 3. Connect the wires strictly according to the wiring method, otherwise it may cause product damage and other potential failures.
- 4 Improper use may result in danger and personal injury.



product description

PCM303W pressure transmitter (pressure + temperature), the pressure sensitive core adopts diffused silicon core . The temperature adopts PT100/PT1000 platinum resistance. The product is small in size, light in weight, and has a full stainless steel sealed structure, which can work in corrosive environments. The product is easy and simple to install, has extremely high vibration and impact resistance, and is widely used in process control, aviation, aerospace, automobile, medical equipment, HVAC and other fields.

Notice:

- 1. Do not misuse the file.
- 2. The information in this selection is for reference only and cannot be used as a guide for product installation.
- 3. Complete installation, operation and maintenance information is provided in the product manual.
- 4. Improper use may result in danger and personal injury.

Version number: 10 1 www.wtsensor.com



TV sensor			
Performance pa	rameters		
Measuring	Pressure range: 0∼35 kPa 40MPa		
range	Temperature range: -40 to 120°C		
Pressure Type	Gauge pressure, absolute pressure, sealed pressure		
A	Pressure accuracy: ± 0.5% FS (type)		
Accuracy	Temperature accuracy: ±2 %FS(type)		
Hysteresis and	0.4.0/50		
Repeatability	0.1 %FS		
Pressure	225 kD + 20/ FC / 0°0 - C0 °0 \		
temperature	≤35 kPa: ± 3%FS (0°C ~60 °C)		
drift	Other ranges: ± 1.5 %FS (-10 °C ~70 °C)		
Power-on	≤ 90 ms (rising to 90%FS)		
response time			
Service life	≥ 1 × 10 ⁶ pressure cycles		
Ambient	-20℃~85℃		
temperature			
Medium	-30℃~120 ℃		
temperature			
Performance pa	rameters		
Storage	-40°C∼125°C		
temperature			
EMC	Immunity: IEC 61000-6-2, Radiated emissions: IEC 61000-6-3		
Insulation	≥ 100MΩ/250VDC		
resistance			
Vibration	Sinusoidal curve: 20g, 25Hz ~ 2kHz; IEC 60068-2-6		
performance	Bandam: 7 Farma FHz - 1kHz: IEC 60069 2 64		
·	Random: 7.5grms, 5Hz ~ 1kHz; IEC 60068-2-64		
Shook proof	Shock: 10g/11ms; IEC60068-2- 27		
Shock proof			
Shock proof Protection	Shock: 10g/11ms; IEC60068-2- 27		
	Shock: 10g/11ms; IEC60068-2- 27 Free fall: 1m; IEC60068-2-32		
Protection	Shock: 10g/11ms; IEC60068-2- 27 Free fall: 1m; IEC60068-2-32		
Protection level	Shock: 10g/11ms; IEC60068-2- 27 Free fall: 1m; IEC60068-2-32 IP65		
Protection level wave Surge	Shock: 10g/11ms; IEC60068-2- 27 Free fall: 1m; IEC60068-2-32 IP65 IEC 61000-4-5 Level 3 2KV		
Protection level wave Surge quiet	Shock: 10g/11ms; IEC60068-2- 27 Free fall: 1m; IEC60068-2-32 IP65 IEC 61000-4-5 Level 3 2KV		
Protection level wave Surge quiet electricity	Shock: 10g/11ms; IEC60068-2- 27 Free fall: 1m; IEC60068-2-32 IP65 IEC 61000-4-5 Level 3 2KV IEC 61000-4-2 Level 4		
Protection level wave Surge quiet electricity Media	Shock: 10g/11ms; IEC60068-2- 27 Free fall: 1m; IEC60068-2-32 IP65 IEC 61000-4-5 Level 3 2KV IEC 61000-4-2 Level 4		

Output and power supply				
letter	Pressure signal	Temperature signal		
Number				
Code	B1	W1	W2	W3
Output	4∼20mA	4∼20mA	PT100	PT1000
powered by	12∼30VDC	12∼30VDC	1	1

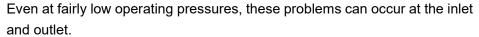
Version number: 10 2 www.wtsensor.com

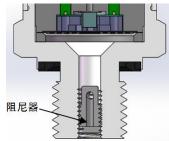


Electrical connection and wiring method Connector J5: Hirschmann Code 48±2 **Dimensions** Unit: mm 55±1 Ø26.5 Temperature wiring Pressure connection Wiring Pin 1: Power + Pin 3: Power + Pin 2: Current output Pin 4 : Current output **Selection of dampers**

Application

Cavitation, liquid hammer and pressure spikes can occur in air or liquid systems with changes in flow rate, such as rapid closing of valves or starting and stopping of pumps.





Medium conditions

In liquids containing particles, nozzle clogging may occur. Vertically mounting the transmitter minimizes the risk of clogging, as the flow of the fluid is limited to the initial start-up period, the volume behind the nozzle is fixed, and the nozzle orifice is relatively large (1.2mm).

Version number: 10 3 www.wtsensor.com



Threaded interf	ace		
Thread code	C 1: M20×1.5-6g	C2: G1/2	C3: G1/4
Dimensions Unit: mm	27 P P R M20x1.5	© 02/2	27 Q G1/4
Recommended torque	15∼25Nm	15∼25Nm	15∼25Nm
Thread code	C4: M14×1.5	C5: NPT1/4, Z1/4	C7: NPT1/2
Dimensions Unit: mm	27 E M14x1.5	27 PPT1/4	02 NPT1/2
Recommended torque	15∼25Nm	15∼25Nm	15∼25Nm

NOTE: Torque depends on various factors such as gasket material, mating material, thread lubrication and pressure level.

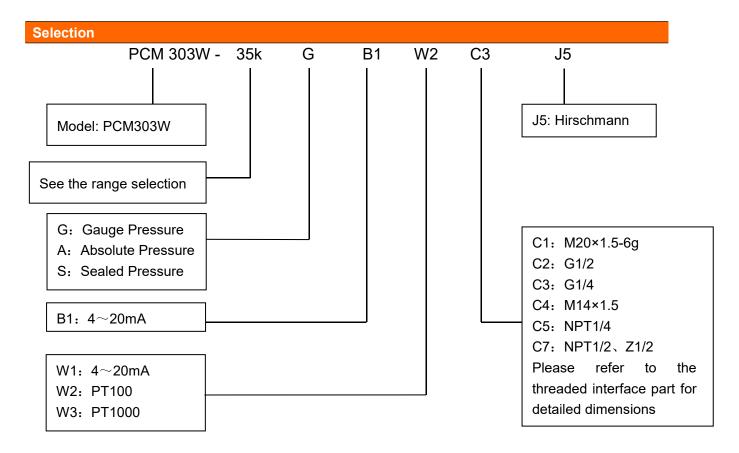
Range selection					
Range code	Pressure	Measuring	Overload	Burst	Remark
	Type	range	pressure	pressure	
35k	G	0∼35 kPa	300% FS	6 00% FS	
70k	G	0∼70 kPa	200% FS	500%FS	
100k	G.A	0∼100 kPa	200% FS	500%FS	
250k	G.A	0∼250 kPa	200% FS	500%FS	
600k	G.A	0∼600kPa	200% FS	500%FS	
1M	G.A	0∼1MPa	200% FS	500%FS	
1.6M	G, A, S	0∼1.6MPa	200% FS	500%FS	
2.5M	G, A, S	0∼2.5MPa	200% FS	500%FS	
4M	S	0~4 MPa	200% FS	400%FS	
6M	S	0∼6 MPa	200% FS	400%FS	
10M	S	0∼10 MPa	200% FS	400%FS	

Version number: 10 4 www.wtsensor.com



16M	S	0∼16 MPa	200% FS	400%FS	
25M	S	0∼25 MPa	150% FS	400%FS	
40M	S	0∼40 MPa	150% FS	300%FS	

Note: G is gauge pressure, A is absolute pressure, S is sealed pressure.



Example: PCM303 W -35kGB1 W2 C3J5 -PT100

The model is PCM 303 W , the measuring range is 0 \sim 35k Pa , the pressure mode is gauge pressure, the pressure output signal is 4 \sim 20 mA , the threaded interface is G1/4, with temperature PT100 resistance value output, and the electrical connector is Hirschmann .

Accessories			
name	shape	describe	Item number
M4 damper		See Damper Selection	100030500027
Domestic Hirschmann plug		Domestic	100040301005

Version number: 10 5 www.wtsensor.com



Ordering Tips

1. When selecting the product, please pay attention to the compatibility between the measured medium and the contact part of the product.

Contact us

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Version number: 10 6 www.wtsensor.com