

PCM300T High Temperature Pressure Transmitter

Features

- SS316L isolation diaphragm structure
- Imported high temperature resistant chip employed
- Applicable to wide medium temperature range
- Strong anti-interference, good long-term stability
- Directly contacting with the measured high temperature medium, and improving the pressure response frequency
- Providing ample pressure ranges for low pressure, moderate pressure and high pressure
- Anti-vibration, shock resistance, and corrosion resistance

Applications and industries

- Process control
- Aerospace
- Chemical product and chemical industry
- Servo valve and transmission

Notes:

- 1 Do not touch the diaphragm with hard objects, which may cause damage to the diaphragm.
- 2 Please read the Instruction Manual of the product carefully before installation and check the relevant information of the product.
- 3 Strictly follow the wiring method for wiring, otherwise it may cause product damage or other potential faults.
- 4 Misuse of the product may cause danger or personal injury.



Product overview

PCM300T High Temperature Pressure Transmitter adopts the high temperature resistant pressure sensor as the signal measuring element, and through the heat dissipation structure for the transmitter, the measured medium pressure is transmitted to the sensor; the high-precision signal processing circuit is located in the stainless steel housing, and transforms the sensor output signal into the standard output signal.

Notes:

- 1 Do not misuse documentation.
- 2 The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- 3 Complete installation, operation, and maintenance information is provided in the instructions of the product.
- 4 Misuse of the product may cause danger or personal injury.

Performance parameter	Performance parameters			
Pressure range	-100kPa0~35kPa60MPa			
Pressure reference	Gauge pressure Absolute pressure Sealed gauge pressure			
Accuracy	0.5%FS			
Hysteresis 0.1%FS				
Repeatability	0.1%FS			
Tomporatura drift	35kPa: ±2%FS (0℃~60℃)			
Temperature drift	Other:±1.5%FS (-20℃~85℃)			
Response time ≤2ms (Up to 90%FS)				
Overload pressure	Please refer to the pressure range selection form			
Durability	10 ⁶ pressure cycles			



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Ambient te	emperature	-20℃~85℃				
Medium te	emp.	-30°C ~105°C				
Storage te	mp.	-40℃~125℃				
EMC		Immunity: IEC	61000-6-2 Ra	diation IEC 610	00-6-3	
Insulation	resistance	≥100MΩ/250V	DC			
Anti-vibrat	ion	Sine curve: 20	g, 25Hz \sim 2kHz;	IEC 60068-2-6		
performan	ce	Random: 7.5gr	ms, 5Hz \sim 1kHz	z; IEC 60068-2-	64	
Shock resi	istance	Shock: 20g/1m	s; IEC 60068-2	-27		
SHOCK TES	istance	Free fall: 1m; IEC 60068-2-32				
Protection	grade	IP65				
Medium co	ompatibility	All kinds of medium compatible with SS316L				
Hexnut		HEX27				
Ex-proof g	rade	Intrinsically safe explosion-proof Exia II CT6 (only for 4~20mA)				
Cooling fa	n	3 pieces, 5 pieces, 7 pieces				
Net weight	t	220~360g				
Performance parameters						
Code	B1	В3	B2	B7	B12	B6
Output	4~20mA	0∼5V	1∼5V	0∼10V	1~10V	0.5~4.5V R/M
Supply	12~30VDC 5VDC					

Electrical connection and conncetion mode Electrical connection J5: Hirschmann DIN43650 J3H: Hirschmann with cable Dimension In mm 42.5 Ø26.5 Ø26.5 IP 65 Protection grade Connection mode V+ Pin 1: V+ (red wire) red wire (2 wire current) Pin 2: lout (green wire) green wire lout



Connection mode (3 wire voltage)

Pin 1: V+ (red wire)
Pin 2: Ground (green wire)
Pin 3: voltage output (yellow wire)

Red wire V+
Green wire Ground
Yellow wire Voltage output

Cooling fan				
Cooling fan code	T3: 3 pieces	T5: 5 pieces	T5: 7 pieces	
Dimension In mm	18.5 3.5 1.5 1.5	3.5 1.5	3.5 1.5 3.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	
Cooling fan	Medium	150°C <medium< td=""><td>250℃<medium< td=""></medium<></td></medium<>	250℃ <medium< td=""></medium<>	
selection	temperature≤150℃	temperature≤250℃	temperature≤350°C	

Note: For the cooling fan selection, please consider the on-site ventilation environment.

Pressure connection				
Thread code	C1: M20×1.5	C2: G1/2	C3: G1/4	
Dimension In mm	27 P P M20x1.5	27	27 92 92 93 94 91/4	
Recommended torque	15∼25Nm	15∼25Nm	15∼25Nm	
Thread code	C4: M14×1.5	C5: NPT1/4	C6: R1/4	



Dimension In mm	27 P M14x1.5	27 Q S NPT1/4	27 27 R1/4
Recommended torque	15∼25Nm	15∼25Nm	15∼25Nm
Thread code	C7: NPT1/2	C8: M12×1.5	C10: R1/2
Dimension In mm	27 PPT1/2	27 27 28 29 20 40 40 40 40 40 40 40 40 40 40 40 40 40	27 P R1/2
Recommended torque	15∼25Nm	15∼25Nm	15∼25Nm
Thread code	C14: G1/8	C20: M10×1	
Dimension In mm	G1/8	152 S M10×1	
Recommended torque	15∼25Nm	15∼25Nm	

Note: The torque depends on all kinds of factors, such as gasket material, kitting material, thread lubrication and pressure.

Pressure range selection						
Pressure	Pressure	Pressure	Overload	Burst	Remark	
range code	reference	range	pressure	pressure	Remark	
35k	G、A	0∼35kPa	150%FS	500%FS		
70k	G	0∼70kPa	150%FS	500%FS		
100k	G、A	0∼100kPa	150%FS	300%FS		
250k	G、A	0∼250kPa	150%FS	300%FS		
400k	G、A	0∼400kPa	150%FS	300%FS		
600k	G、A	0∼600kPa	150%FS	300%FS		
1M	G、A、S	0∼1MPa	150%FS	300%FS		
1.6M	G、S	0∼1.6MPa	150%FS	300%FS		

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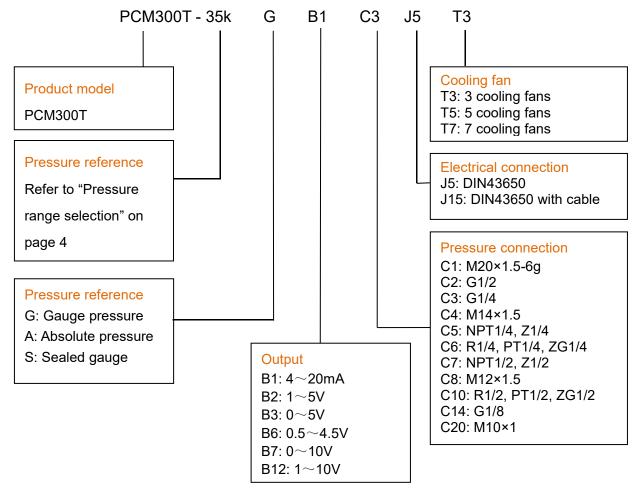


2.5M	G、S	0∼2.5MPa	150%FS	300%FS	
4M	S	0∼4MPa	150%FS	300%FS	
6M	S	0∼6MPa	150%FS	300%FS	
10M	S	0∼10MPa	150%FS	300%FS	
16M	S	0∼16MPa	150%FS	300%FS	
25M	S	0∼25MPa	150%FS	300%FS	_
40M	S	0∼40MPa	150%FS	300%FS	
60M	S	0∼60MPa	150%FS	200%FS	

Note: G stands for gauge pressure, A, absolute pressure, S, sealed gauge pressure.

Accessory			
Name	Appearance	Description	Material No.
LCD12 with display gauge	1798-	1. LCD display 2. Green backlight	100040100008
BS-6 digital display gauge	Digital instrument	1. Digital tube display 2. Red backlight	100040101000
Hirschmann plug made in China		Made in China	100040301005
Imported Hirschmann plug		Imported	100040301013





Example: PCM300T-35kGB1C3J5T3

The product model is PCM300T, 35k: pressure range $0\sim35$ kPa, G: pressure reference gauge pressure, B1: output signal $4\sim20$ mA, C3: pressure connection G1/4, J5: electrical connector DIN43650, T3: 3 pieces cooling fans.

Ordering tips

- 1. Please ensure the compatibility between the measured medium and the contacting part of the product when placing an order.
- 2. The measuring range between 1kPa ~ 35kPa could be customized (Pressure range≤6kPa, choose the pressure sensor without oil filling, the measuring medium must be pure gas)

Wotian reserves the right to make any change in this publication without notice. The information provided is believed to be accurate and reliable as of this product sheet.

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