

PCM1350 Flush Pressure Transmitter

(For food industry and aseptic processing applications)

Features

- With SS316L isolation diaphragm structure
- With high accuracy and all stainless steel structure
- With strong anti-interference and good stability
- Adjustable zero and span output
- With diversified form and structure, and easy for installation
- Multiple aseptic process connections available for process temperature up to 150°C

Applications and industries

- Oil and gas, compressed air, steam, liquid, paste and powder media
- Vacuum pressure detection such as vacuum transfer pump monitoring

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



PCM1350 flush pressure transmitter is applicable to food, beverage, pharmaceutical and biological engineering. Full metal flush-mounting isolation diaphragm is directly welded with process connection to ensure the precision connection between process connection and measuring diaphragm. Therefore, no additional sealing gaskets are required, and it ensures there are no measurement dead zones.

The stainless steel 316L diaphragm separates the measuring medium from the pressure sensor, and the process pressure from the diaphragm to the piezoresistive sensor is transferred statically through the filling fluid which has the hygienic license.

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.

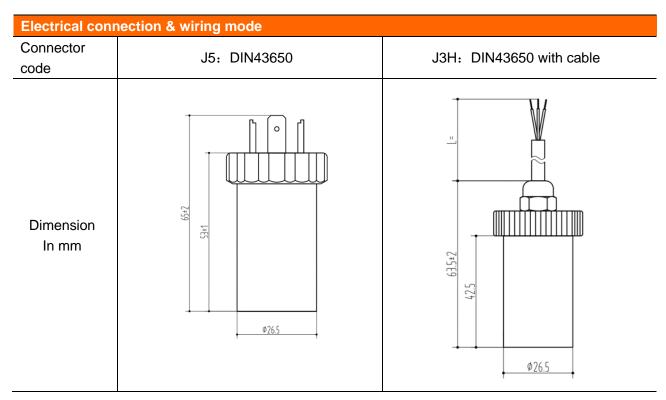
Performance parameters

Pressure range	-100kPa···0∼35kPa···2.5MPa	
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure	
Accuracy	0.5%FS	
Hysteresis	0.1%FS	
Repeatability	0.1%FS	
Temperature drift	35kPa: ±3%FS (0℃~60℃)	



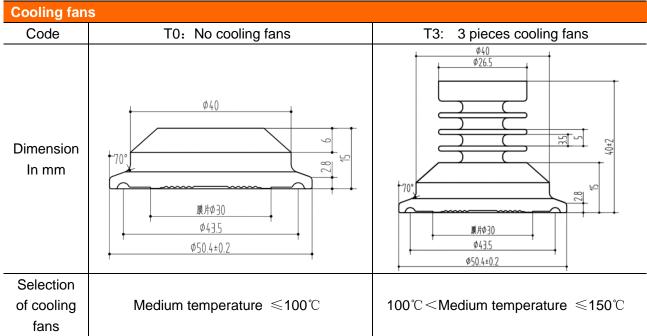
VALVI sensor			
	Other ranges: $\pm 1.5\%$ FS (-10 $^{\circ}$ C \sim 70 $^{\circ}$ C)		
Response time	≤1ms (Up to 90%FS)		
Overpressure	Refer to the range selection table		
Service life	≥1×10 ⁶ pressure cycles		
Ambient temp.	-20℃~85℃		
Performance paramet	ers (cont.)		
Medium temp.	-30℃~125℃		
Storage temp.	-40°C∼125°C		
EMC	Immunity: IEC 61000-6-2, Radiation: IEC 61000-6-3		
Insulation resistance	≥100MΩ/250VDC		
Vibration	Sine curve: 20g, 25Hz~2kHz; IEC 60068-2-6		
performance	Random: 7.5grms, 5Hz~1kHz; IEC 60068-2-64		
Protection grade	IP67 (No connectors are included.)		
Surge	IEC 61000-4-5 3 level		
Voltage registeres	Current output: 500V/AC 1min		
Voltage resistance	Voltage output: 250V/AC 1min		
Static electricity	IEC 61000-4-2 4 level		
Medium compatibility	All medium compatible with 316L		
Ex-proof	Intrinsically safe explosion-proof Exia II CT6 (Only for 4 to 20mA output)		
Net weight	300∼350g		

Output and power supply					
Code	B1	B7	Customizable		
Output	4~20mA	0~10V			
Power supply	12∼30VDC	12∼30VDC			





Protection grade Connection mode (2-wire current output) Connection mode (3-wire (3-wire voltage output) Pin 1: Supply+ (red wire) Pin 2: Current output (green wire) Red wire: Supply+ Green wire: Current output Red wire: Supply+ Green wire: Current output Red wire: Supply+ Green wire: Common ground vire: Voltage output Red wire: Supply+ Green wire: Common ground yellow wire: Voltage output			
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	(3-wire	Pin 2: Common ground (green wire)	Green wire: Common ground
output)	voltage	Pin 3: Voltage output (yellow wire)	Yellow wire: Voltage output
	output)		



Pressure range selection					
Pressure	Pressure	Pressure range	Overpressure	Burst	NOTES

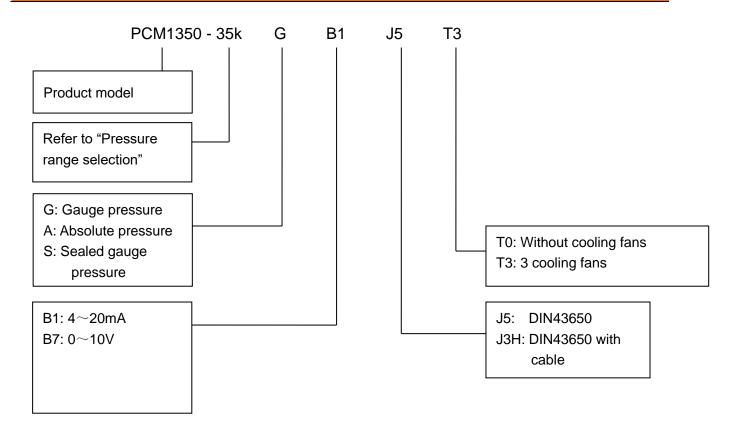


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range code	reference			pressure	
35k	G	0∼35kPa	300%FS	600%FS	
70k	G	0∼70kPa	300%FS	600%FS	_
100k	G、A	0∼100kPa	200%FS	500%FS	
250k	G	0∼250kPa	200%FS	500%FS	_
600k	G	0∼600kPa	200%FS	500%FS	
1M	G	0∼1MPa	200%FS	500%FS	
1.6M	G、S	0∼1.6MPa	200%FS	500%FS	
2.5M	G、S	0~2.5MPa	200%FS	500%FS	

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

Accessaries					
Name	Appearance	Description	Material No.		
LCD12 display gauge	1798-	LCD display Green backlight	100040100008		
BS-6 digital display gauge	Digital Instrument	Nixie tube display Red backlight	100040101000		





Example: PCM1350-35kGB1J5T3

Refer to product model PCM1350, pressure range $0\sim35$ kPa, pressure reference gauge pressure, output signal $4\sim20$ mA, electrical connection DIN43650, 3 cooling fans, pressure connection 2 inch clamp.

Ordering tips

- (1) Please ensure the compatibility between the measured medium and the contacting part of the product when placing an order.
- (2) If there are special requirements for the product appearance or performance parameter, our company can provide customization.

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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