

PCM400F Flange Pressure Transmitter

Features

- Using a high-performance diffusion silicon piezoresistive sensor
- Used for pressure measurement of gas, liquid, and other media
- Wide pressure range
- With digital display
- Multiple output signals can be selected

Applications

- Industrial field control
- Oilfield
- Heavy industry
- Chemical Industry
- Gas pipeline network
- Water supply pipeline network

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.



Product overview

The PCM400F flange pressure transmitter uses a high-performance, high-stability OEM pressure sensor as the signal measuring element. The sensor signal is converted to a standard signal through special signal processing. This product, with stable and reliable performance, has passed long-term aging and stability screening and can be used in harsh outdoor environments. It also ensures the on-site pressure display, with zero and span transferable.

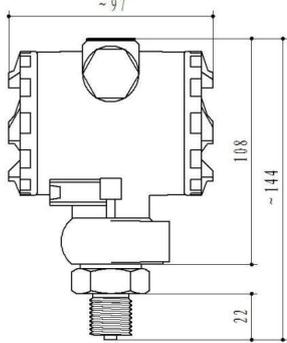
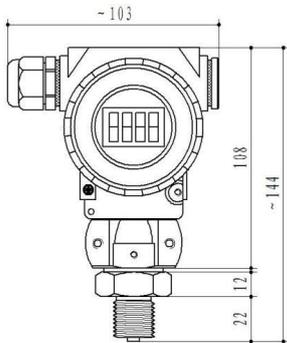
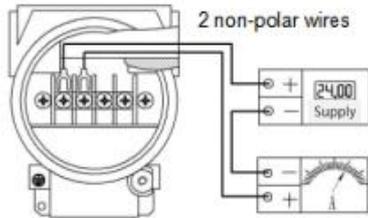
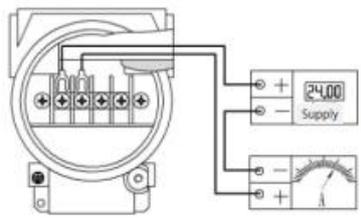
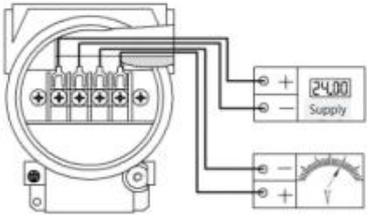
Notes:

- 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...0~20kPa...100MPa
Pressure reference	Gauge pressure, Absolute pressure, Sealed gauge pressure
Supply & output signal	Supply: 18~36V; Output signal: 4~20mA Supply: 12~36V; Output signal: 4~20mA with display
Operating temp.	-20°C~85°C
Medium temp.	-20°C~85°C
Storage temp.	-40°C~125°C
Zero temp. coefficient	±1.5%FS (@-20°C~85°C)
Span temp. coefficient	±1.5%FS (@-20°C~85°C)
Overload pressure	150%FS~300%FS
Mechanical vibration	20g (20~5000Hz)
Shock	100g (11ms)
Overall Accuracy	0.5%FS
Insulation	100MΩ/250VDC
Response time	≤1ms (up to 90%FS)
Long-term stability	±0.2%FS/year
Protection	IP65
Ex-proof	Intrinsic safety explosion-proof Exia II CT6
Material	Low copper aluminum alloy for shell, 316L for isolation diaphragm
Medium compatibility	All the media compatible with stainless steel 316L

Electrical connection and wiring method

Type	J1: 2088 housing	J2: 2088 housing with display
Dimension In: mm		
Connection mode (Current output)		
Connection mode (Voltage output)		-

Installation instruction (for reference only)

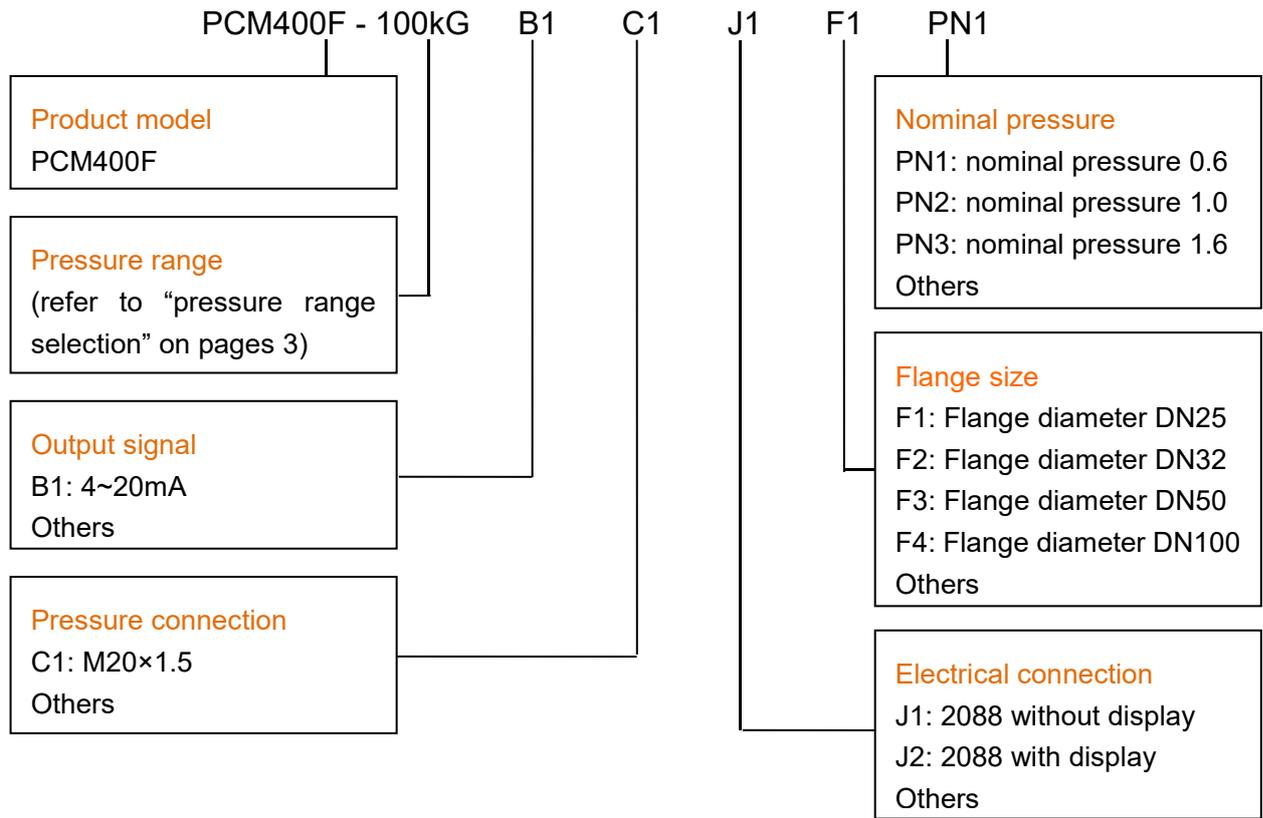
Installation tips:

- (1) The product is installed vertically on the field pressure connection.
- (2) When installing outdoors, the transmitter should be placed in a ventilated and dry place, avoiding direct exposure to strong light and rain; otherwise, it will cause performance degradation or malfunction.
- (3) When installing the product in a lightning-prone area, "lightning protection" should be indicated when ordering; meanwhile, it is highly recommended to install lightning protection devices on site, and ensure both the product and power supply are reliably grounded. These measures will reduce the probability of lightning damage to the transmitter.
- (4) If no output or abnormal output after installation, please check:
 - ① Whether the electrical connection is accurate and firm;
 - ② Whether the supply voltage is too low and whether the load resistance is too high.

Pressure range selection

Pressure range code	Pressure reference	Pressure range	Overload pressure	Burst pressure	Note
10kG	G	0~10kPa	300%FS	600%FS	
35kG	G	0~35kPa	300%FS	600%FS	
70kG	G	0~70kPa	300%FS	600%FS	
100kG	G	0~100kPa	200%FS	500%FS	
250kG	G	0~250kPa	200%FS	500%FS	
400kG	G	0~400kPa	200%FS	500%FS	
600kG	G	0~600kPa	200%FS	500%FS	
1MG	G	0~1MPa	200%FS	500%FS	
100kA	A	0~100kPa	200%FS	500%FS	
250kA	A	0~250kPa	200%FS	500%FS	
400kA	A	0~400kPa	200%FS	500%FS	
600kA	A	0~600kPa	200%FS	500%FS	
1MA	A	0~1MPa	200%FS	500%FS	
1.6MS	S	0~1.6MPa	200%FS	500%FS	

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



Example: PCM400F-100kGB1C1J1F1PN1

Product model: PCM400F, pressure range 0~100, gauge pressure. B1: output signal 4~20mA. C1: flange pressure connection M20×1.5. J1: 2088 housing without display. F1: Flange diameter DN25. PN1: nominal pressure 0.6.

Optional accessories

Standard accessories: white plastic tense wires and end caps; Metal tense wires and end caps shall be offered as optional extras at an additional cost. Please specify this in the order.

Ordering tips

For products with a display, there are two types: digital tube and LCD display. Please specify this in the order.

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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