

# PCM400F Flange Pressure Transmitter

#### **Features**

- Using high performance diffused 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 pipe network
- Water supply 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 into standard signal transmission through special signal processing. After long-term aging and stability screening, the product performance is stable. It can be applied to the harsh environment of the open field, and meanwhile ensures the field pressure display, with zero point and full 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.

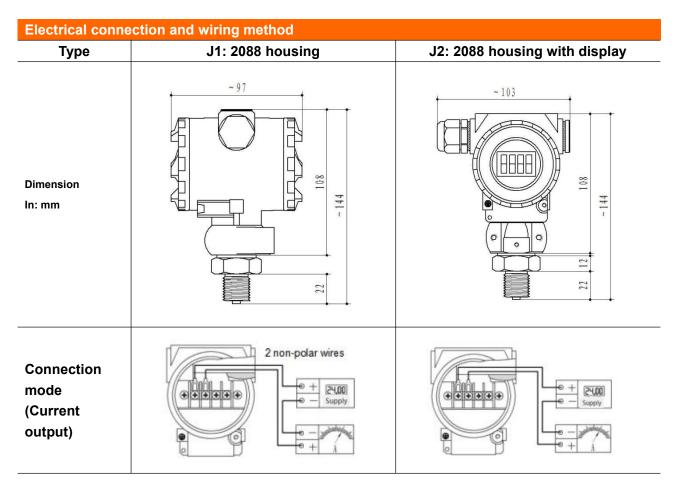
3 Complete installation, operation, and maintenance

information is provided in the instructions of the product.

4 Misuse of the product may cause danger or personal injury.



Performance parameters					
Pressure range	-100kPa0~20kPa100MPa				
Pressure reference	Gauge pressure ,Absolute pressure ,Sealed gauge pressure				
Supply & output	Supply:18-36V;Output:4-20mA				
	Supply:12-36V;Output:4-20mA with display;				
Operating temp.	-20℃~85℃				
Medium temp.	-20°℃~85°℃				
Storage temp.	-40℃~125℃				
Zero temp. coefficient	±1.5%FS(@-20°C~85°C)				
Span temp. coefficient	±1.5%FS(@-20°C~85°C)				
Overpressure	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	Exia II CT6				
Material	Low copper aluminum alloy for shell, 316L for isolation diaphragm				
Medium compatibility	All the media compatible with stainless steel 316L				





Connection mode (Voltage output)

#### Installation (for reference only)

#### Installation tips:

(1) The product is installed vertically at the field pressure interface.

(2) When installing in the open air, the transmitter should be placed in a ventilated and dry place as far as possible to avoid direct illumination by strong light and rain, otherwise the performance will deteriorate or fail.

(3) When the products are installed in thunderous areas, "Lightning Protection" should be marked when ordering. At the same time, it is recommended that users install lightning protection devices on site and ensure reliable grounding of the products and power supply, which can reduce the damage probability of lightning to the transmitter.

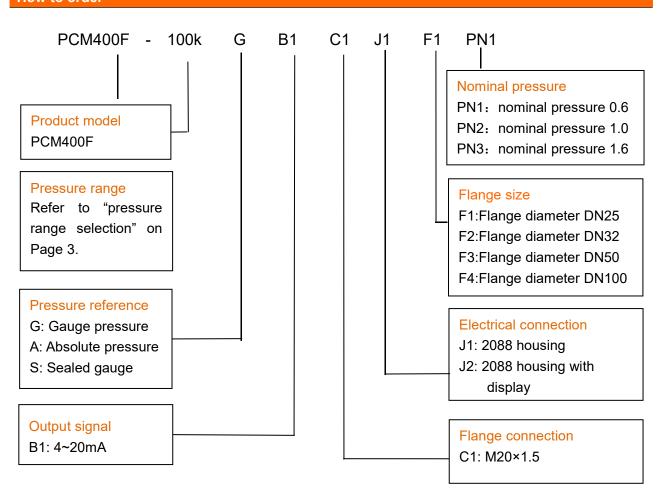
(4) If the transmitter is found to have no output or abnormal output after installation, please check:

- (1) Whether the electrical connection is right and firm;
- (2) Whether the power supply voltage is too low and whether the load resistance is too large.

Pressure range selection							
Pressure Range code	Pressure reference	Pressure range	Overpressure	Burst pressure	Remark		
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 stands for gauge pressure, A, absolute pressure, S, sealed gauge pressure.

How to order



## Example: PCM400F-100kGB1C1J1F1PN1

Product model: PCM400F. 100k: pressure range0~100k. G: gauge pressure. B1: output signal 4~20mA. C1: flange connection. J1: 2088 housing without display. F1: Flange diameterDN25. PN1: nominal pressure 0.6.

# **Optional accessories**

White plastic tight wire and plug are standard, and metal tight wire and plug can be selected at your own expense. Please explain in the order.

# Ordering tips:

The display is divided into digital tube display and LCD display. Please explain it 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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