

PCM450 Flush Pressure Transmitter with Flange

Features

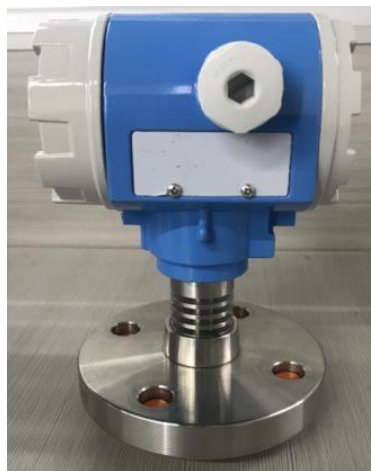
- 3051 or 2088 housing is optional
- Flange mounting
- Double-wire mode, 4~20mA analog output, HART® protocol data communication
- Intelligent LCD gauge outfit with backlight
- Diaphragm with large size, all-welded sealing, long-term reliable and durable
- Used for the pressure measurement for gas, liquid, steam
- Optional anticorrosion diaphragm (Tantalum, Hastelloy C, 316L, 316L sprayed with PTFE)
- Especially suitable for high temperature viscous liquid
- The price is cheaper than that of similar imported instruments

Applications and industries

- Process control fields for the industries such as petroleum, chemical industry, metallurgy, electricity, food, papermaking, medicine, machine manufacturing, scientific experiment and military aviation etc.

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

PCM450 Flush Pressure Transmitter with Flange is a type of flush product in order to meet the flange mounting requirement of the customer. This product adopts the imported diffuse silicon pressure sensitive element, and after the long-term aging and stability selecting, the product performance is stable and reliable.

PCM450 Flush Pressure Transmitter with Flange takes the international standard flange plate as the connection standard, and can realize the on-site flange mounting mode for the user. Because the stress diaphragm is exposed and senses the pressure directly, convenient for cleaning, and able to meet the moistureproof, waterproof, ex-proof and other severe working condition requirements, the products of this series are widely applied for the viscous media with particles in the fields such as industrial process control, petroleum, chemical industry, metallurgy etc.

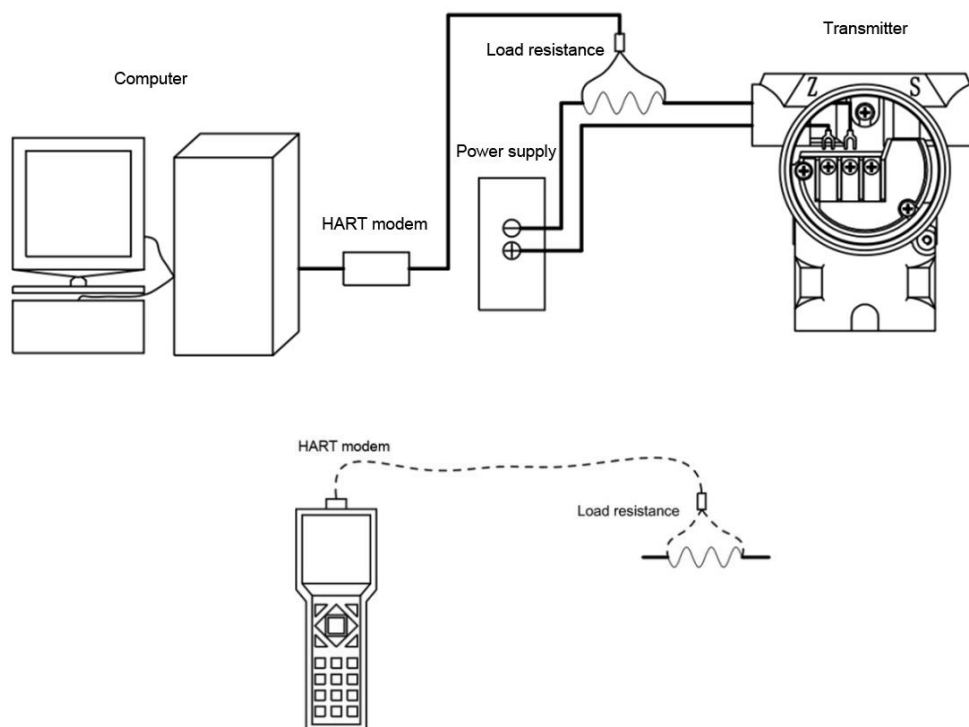
Notes:

- 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.

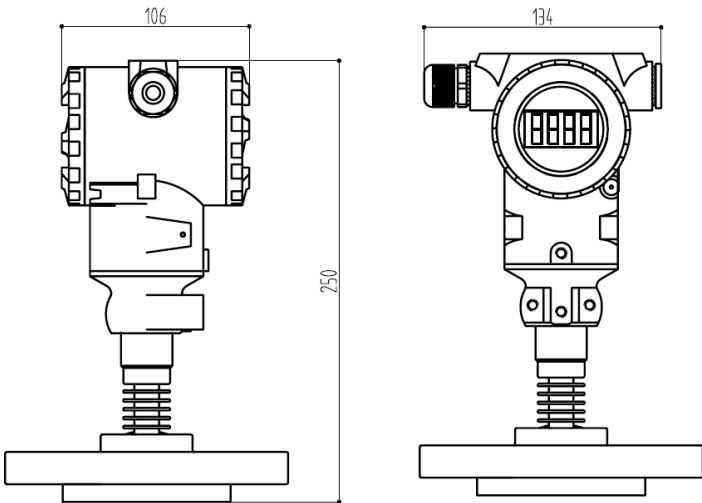
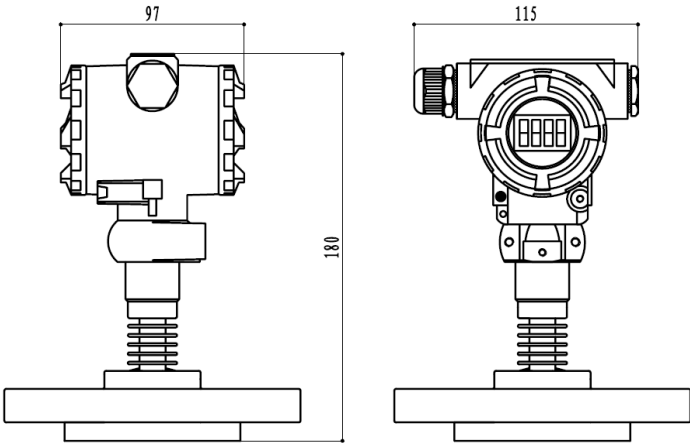
Performance parameters

Pressure range	-100kPa...0~10kPa...10MPa
Pressure reference	Gauge pressure, Absolute pressure
Supply & output	4~20mA, 4~20mA+HART® protocol (24V power supply)
Accuracy	±0.5%F.S. (@25±5℃)
Temperature drift	≤35kPa: ±3%F.S. (0℃~60℃) Other ranges: ±2%F.S. (-10℃~70℃)
Operating temp.	-30℃~80℃; with LCD gauge outfit -30℃~70℃
Medium temp.	-40℃~100℃
Storage temp.	-40℃~85℃
Insulation resistance	≥100MΩ/500VDC (200MΩ/250VDC)
Protection grade	IP65
Ex-proof grade	Exd II BT6 Gb
Overpressure	150%FS
Long-term stability	±0.2%FS/year
Diaphragm material	316L (316L sprayed with PTFE, Hastelloy C, tantalum)
Filling liquid	Silicon oil
Housing material	Die-casting aluminum epoxy resin coating
Electrical connection	M20×1.5
Pressure connection	DN25, DN50, DN80
Weight	3.5kg (DN50)

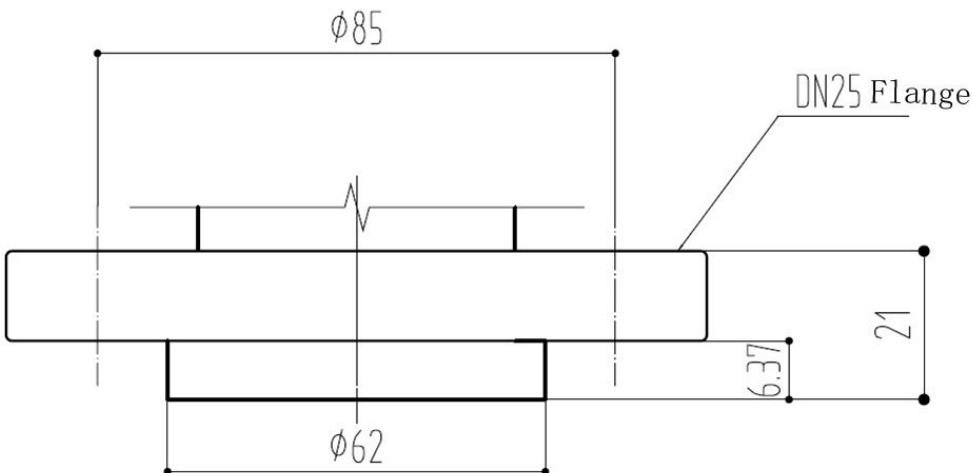
HART communication connection diagram



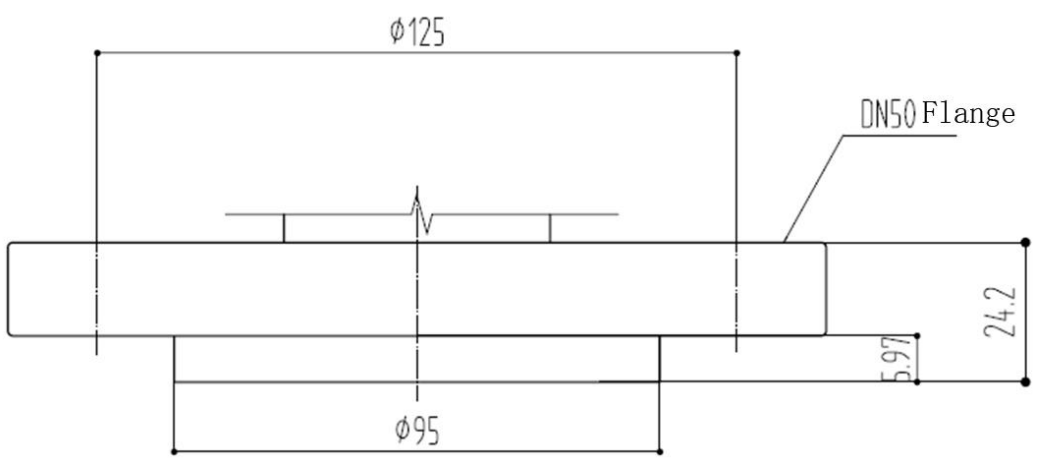
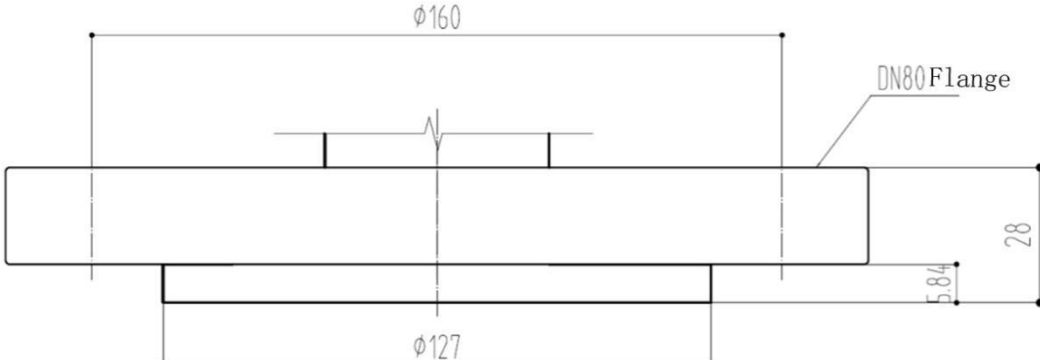
Outline dimension

Housing model	Dimension drawing	In mm
3051 housing		
2088 housing		

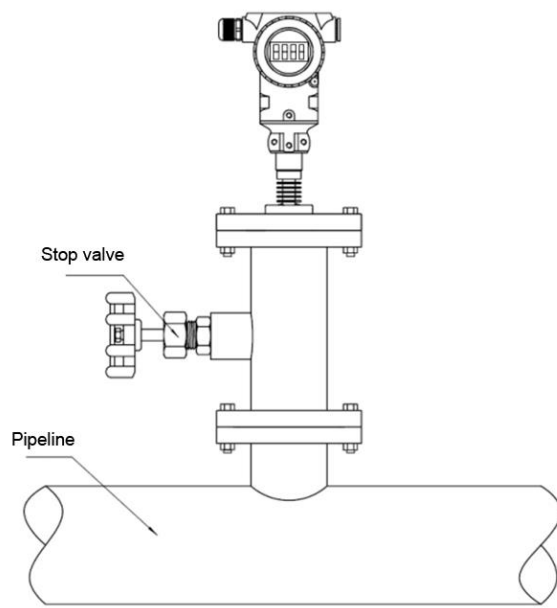
Pressure connection

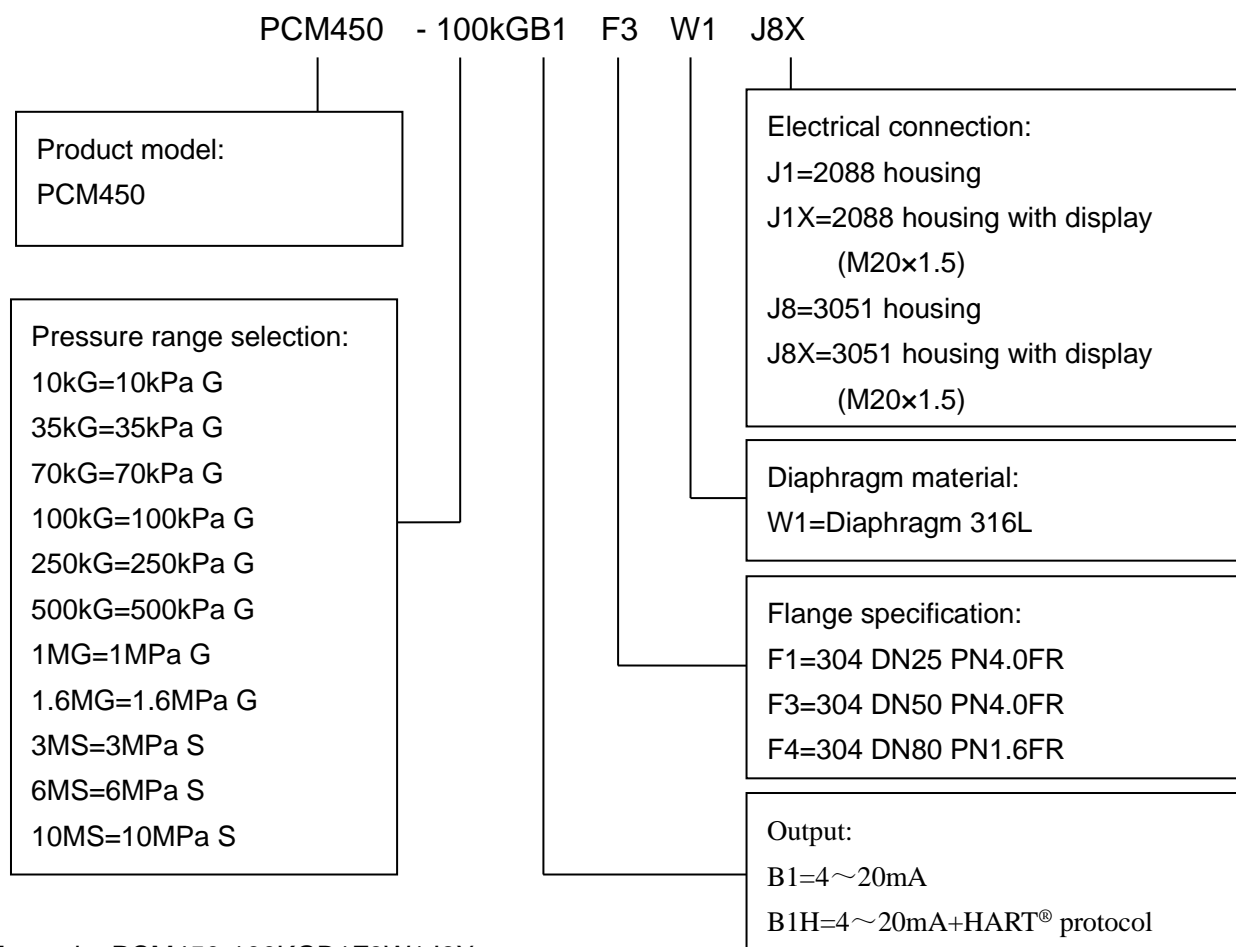
Flange model	Dimension drawing	In mm
DN25		

Process connection (cont.)

<p>DN50</p>	 <p>Technical drawing of the DN50 process connection. It shows a side view of a horizontal pipe with a diameter of $\phi 125$. A vertical section line is drawn through the center. The pipe has a flange on the right side labeled "DN50 Flange". The total length of the pipe is 24.2. The distance from the center of the pipe to the center of the flange is 5.97. The diameter of the pipe at the center is $\phi 95$.</p>
<p>DN80</p>	 <p>Technical drawing of the DN80 process connection. It shows a side view of a horizontal pipe with a diameter of $\phi 160$. A vertical section line is drawn through the center. The pipe has a flange on the right side labeled "DN80 Flange". The total length of the pipe is 28. The distance from the center of the pipe to the center of the flange is 5.84. The diameter of the pipe at the center is $\phi 127$.</p>

Installation diagram

Outline drawing	Installation instruction
 <p>Outline drawing showing the installation of the pressure transmitter. The transmitter is mounted vertically on a pipe. A stop valve is located on the side of the pipe, and the pipeline continues horizontally. Labels include "Stop valve" and "Pipeline".</p>	<ul style="list-style-type: none"> ▲ Integrated pressure transmitter, direct installation with the process connector; ▲ The gasket is selected according to the medium characteristic and temperature range, and the balanced locking for various bolts should be ensured.



Example: PCM450-100KGB1F3W1J8X

Refer to product model PCM450, pressure range 100kPa G, output 4~20mA, flange specification 304 DN50 PN4.0FR, diaphragm material 316L, electrical connection 3051 housing with display (M20×1.5).

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.

Contact us

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