

PCM2051-F Intelligent Flush Pressure Transmitter With Flange

Features

- Using monocrystalline silicon pressure chip
- Wide pressure range coverage
- 2-wire mode 4 ~ 20mA HART® protocol digital communication
- Intelligent LCD gauge with backlight
- With both local zero and pressure range adjustment
- Complete varieties, high accuracy, good stability
- Isolation explosion-proof housing structure, strong resistance to frequency conversion interference
- Without mechanical drive components, solid and vibration resistant
- Lightning protection circuit design

Applications

- Process control fields for the industries of petroleum, chemical industry, metallurgy, electricity, food, paper making, 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.



Product overview

PCM2051-F intelligent flush pressure transmitter with flange uses monocrystalline pressure chip inside, and the sensor signal is converted into a standard signal output through a dedicated signal processing module. After long-term aging and stability screening, the product performance is stable and reliable, which can be applied to harsh outdoor environments. Meanwhile, PCM2051-F can display on-site pressure, zero and span adjustable. This series of products are widely used in industrial process control, petroleum, chemical, metallurgical and other industries.

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.

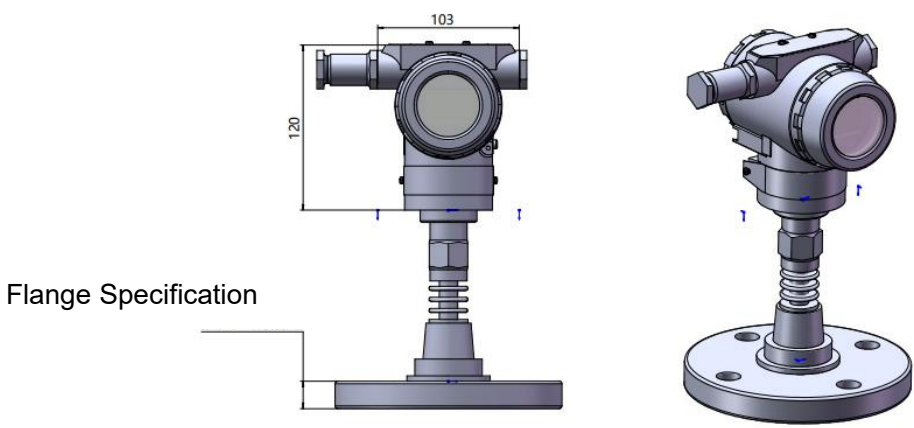
Performance parameters

Pressure range	0~6kPa,0~40kPa,0~100kPa,0~250kPa,0~1MPa,0~3MPa
Pressure reference	Gauge pressure
Supply	12~32V,recommend 24V
Output	4~20mA+HART® protocol
Accuracy	±0.1%FS (25±5℃,Standard ranges)
Temp. drift	0.25%FS (-20℃~70℃,Standard ranges)
Ambient temperature	-30℃~80℃;with LCD gauge -30℃~70℃
Medium temp.	-40℃~125℃
Storage temp.	-20℃~70℃
Insulation resistance	≥200MΩ / 250VDC
Protection grade	IP65
Ex-proof grade	Ex db IIC T6 Gb
Long-term stability	±0.2%FS / 2years

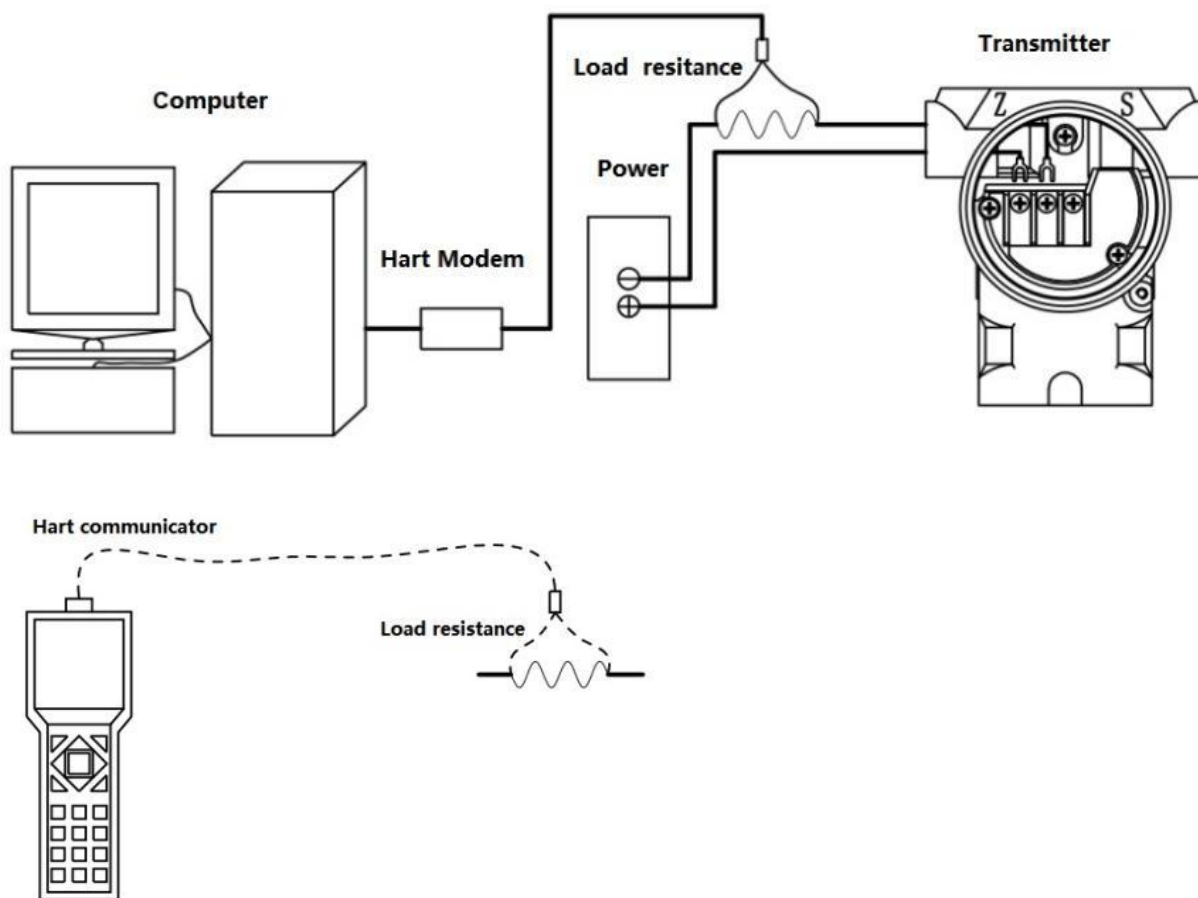
Structural performance

Diaphragm material	316L,Hastelloy C,Tantalum,Other materials to be customized
Exhaust/Drain valve	Stainless Steel
O-ring	Fluoroelastomer
Filling liquid	Silicon oil
Flange	304
Housing material	Die-cast aluminium alloy, painted epoxy coating
Electrical connection	M20×1.5,NPT1/2 Female
Process connection	DN25 PN40,DN40 PN40,DN50 PN40,DN80 PN16 options Implementation standard GB/T 9119-2010,other standards can be customized

Product diagram

Product Model	Physical Diagram	Unit: mm
PCM2051-F		

HART communication connection diagram



How to order

PCM2051-F	–	40k	F1	M4	J8X						
						Code	Housing				
						J8X	2051 Housing with display (M20×1.5)				
						J12X	2051 Explosion-proof with display (M20×1.5)				
						J22X	2051 Explosion-proof with display (NPT1/2)				
						Code	Diaphragm	Code	Diaphragm	Code	Diaphragm
						M1	Hastelloy C	M2	Tantalum	M4	316L
						Code	Flange		Code	Flange	
						F1	304 DN25 PN40 RF		F2	304 DN40 PN40 RF	
						F3	304 DN50 PN40 RF		F4	304 DN80 PN16 RF	
						Code	Measurement range	Code	Measurement range	Code	Measurement range
						6K	0-6KPa	40K	0-40KPa	100K	0-100KPa
						250K	0-250KPa	1M	0-1MPa	3M	0-3MPa
						Code	Product model				
						PCM2051-F	Intelligent flange flat membrane pressure transmitter (Capillary tubes available)				



Example: PCM2051-F-40kF1M4J8X

The model is: PCM2051-F. 40k: measurement range 0 ~ 40kPa. F1: flange 304 DN25 PN40 RF. M4:diaphragm 316L. J8X: housing 2051 Housing with display(M20×1.5).

Ordering tips:

1. Ensure compatibility between measured media and contacting part of product.
2. Customization is available for special requirements on the appearance and performance parameters of the product.
3. The product is labeled by default.

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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