

PCM2051-F/R Intelligent Flush Diaphragm Monocrystalline Silicon Pressure Transmitter with Flange

Features

- Adopt advanced single crystal silicon differential pressure sensor
- Two-wire system, 4~20mA analog output, HART® digital communication
- Intelligent LCD meter with backlight
- With local zero point and range adjustment
- Complete variety, high precision and good stability
- Explosion-proof shell structure, strong anti-frequency interference ability
- High static pressure and high overload protection
- Lightning protection circuit design

Application and industry

- Process control in the fields of petroleum, chemical, metallurgy, electric power, food, papermaking, medicine, machinery manufacturing, etc.

Notice:

1. Do not touch the diaphragm with hard objects, as this may damage the isolation diaphragm.
- 2 Before installation, please read the product manual carefully and check the relevant information of the product.
3. Connect the wires strictly according to the wiring method, otherwise it may cause product damage and other potential failures.



Product Overview

PCM2051-F/R intelligent flange mounted pressure transmitter adopts advanced single crystal silicon pressure sensor technology and is a high performance pressure transmitter with international leading technology . This product adopts internal circuit surge protection design and can be used to measure the level, density, pressure and flow of liquid, gas or steam, and then convert it into 4~20mA+HART current signal output.

Notice:

1. Do not misuse the file.
2. The information in this selection is for reference only and cannot be used as a guide for product installation.
3. Complete installation, operation and maintenance information is provided in the product manual.

Performance parameters

Measurement Range	0~6kPa, 0~40kPa, 0~100kPa , 0~250kPa, 0~1MPa , 0~3MPa
Power Supply	12~32V, 24V recommended
Output	4~20mA+HART protocol
Accuracy	±0.1%FS (25±5℃, standard range)
Temperature Drift	0.25%FS (-20℃~70℃, standard range)
Ambient temperature	-30℃~80℃; with LCD meter -30℃~70℃
Medium temperature	-40℃~125℃
Storage temperature	-20℃~70℃
Insulation resistance	≥200MΩ/250VDC
Protection level	IP65
Explosion-proof	Exd II BT6 Gb
Static pressure effect	Zero point influence 0.15%FS / 4MPa Full range influence 0.25%FS / 4MPa
Long-term stability	±0.2%FS/year

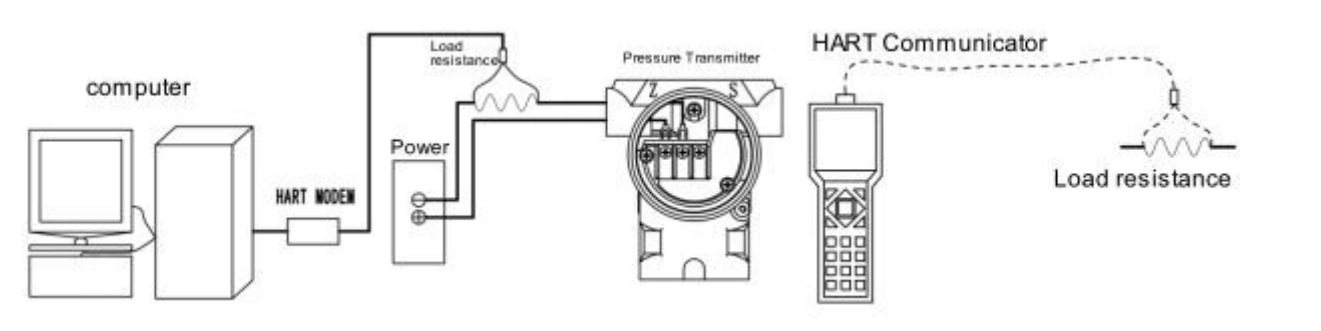
Structural characteristics

Diaphragm material	316L, Hastelloy, Tantalum, other materials can be customized
O -Ring	PTFE
Potting fluid	Silicone oil
Flange	316 or 304
Shell material	Housing Die-cast aluminum alloy, painted epoxy resin coating
Electrical interface	M20×1.5, NPT1/2
Process interface	DN25 , DN40 , DN50 , DN80 optional

Dimensions

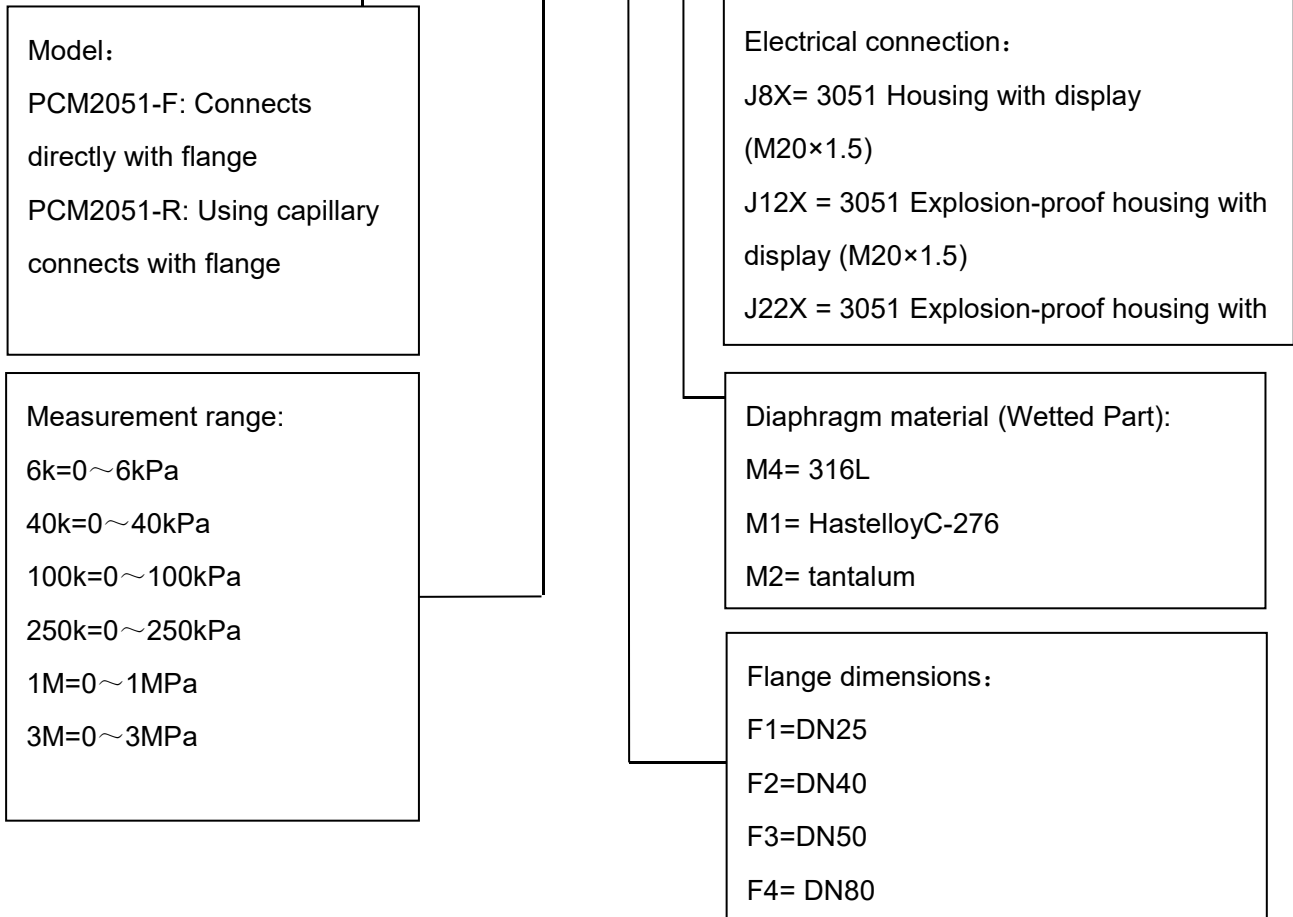
Product Model	Dimensions in mm
PCM2051-F	
PCM2051-R	

HART communication connection diagram



How to order

PCM2051- F/R – 40k F1 M4 J8X



Example: PCM2051-F/R-4 0kF3M4J 8X

Indicates: product model: PCM2051-F/R, range selection: 0~40kPa, output: 4~20mA @ HART® protocol, electrical connection: 3051 housing with display (inside M20×1.5), flange size: DN50, liquid contact diaphragm material: 316L

Ordering Tips

Accessories must be purchased separately.



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