

PCM3051-LT Intelligent Flange Mounted Pressure Transmitter

Features

- Advanced monocrystalline silicon differential pressure sensor adopted
- 2-wire, 4~20mA analog output, HART® protocol digital communication
- Intelligent LCD with backlight
- With local zero and pressure range adjustment function
- Complete varieties, high accuracy, good stability
- Isolation ex-proof housing structure, strong resistance to frequency conversion interference
- High static pressure, high overload protection
- Patented double overload protection diaphragm design
- Lightning protection circuit design

Applications and industries

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

PCM3051-LT intelligent flange mount pressure transmitter adopts advanced monocrystalline silicon pressure sensor technology and patented encapsulation process. PCM3051-LT is a well developed high-performance pressure transmitter with international leading technology. With patented double overload protection diaphragm design and internal circuit anti-surge protection design, this product can be used to measure liquid, gas or steam level, density, pressure, and flow rate, and then convert it to 4-20mA + HART current signal output.

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.

Version No.: V02 1 www.wtsensor.com

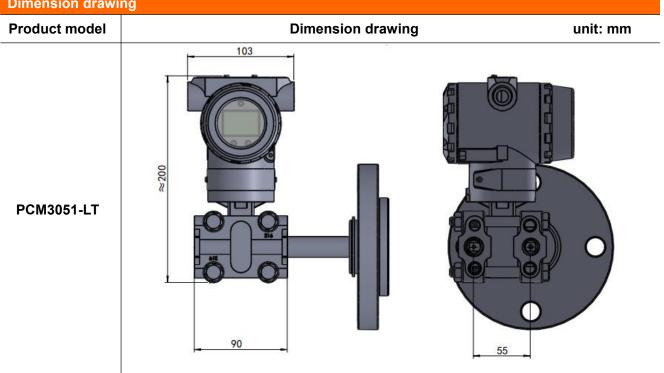


Performance parameters	
Pressure range	0∼6kPa, 0∼40kPa, 0∼100kPa, 0∼250kPa, 0∼1MPa, 0∼3MPa
Pressure type	Gauge Pressure
Supply	12~32V, 24V recommended
Output	4~20mA+HART protocol
Accuracy	\pm 0.1%FS (25 \pm 5 $^{\circ}$ C, standard ranges)
Temperature drift	0.25%FS (-20℃~70℃, standard ranges)
Ambient temperature	-30℃~80℃; with LCD -30℃~70℃
Medium temp.	-40°C∼125°C
Storage temp.	-20℃~70℃
Insulation resistance	≥200M Ω /250VDC
Protection	IP67
Ex-proof	Ex db IIC T6 Gb
Static pressure impact	Zero 0.15%FS/4MPa
	Span 0.25%FS/4MPa
Long-term stability	±0.2%FS/2 years

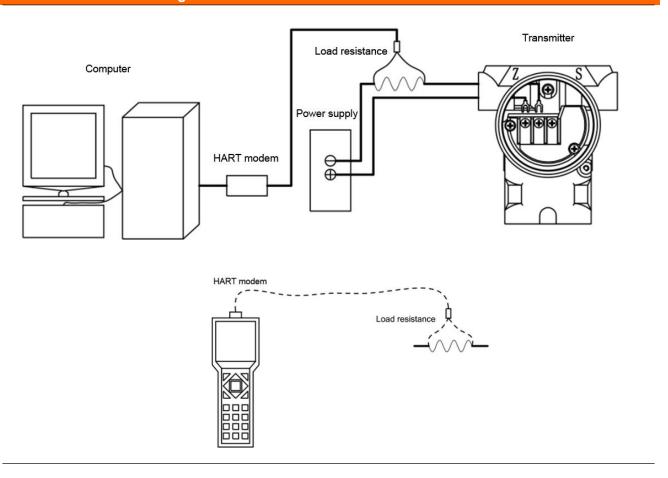
Structural performance	
Diaphragm material	316L, Hastelloy C, tantalum, other materials to be customized
Exhaust/Drain valve	Stainless steel
O-ring	VITON
Filling liquid	Silicon oil
Clamp block	SS304
Flange	316
Housing material	Die-cast aluminum alloy shell, painted epoxy resin coating
Electrical connection	M20×1.5 ,NPT1/2 female
Pressure connection	DN25 PN40, DN40 PN40, DN50 PN40, DN80 PN16 options
	Flange execution standard GB/T 9119-2010, other standards can be
	customized



Dimension drawing

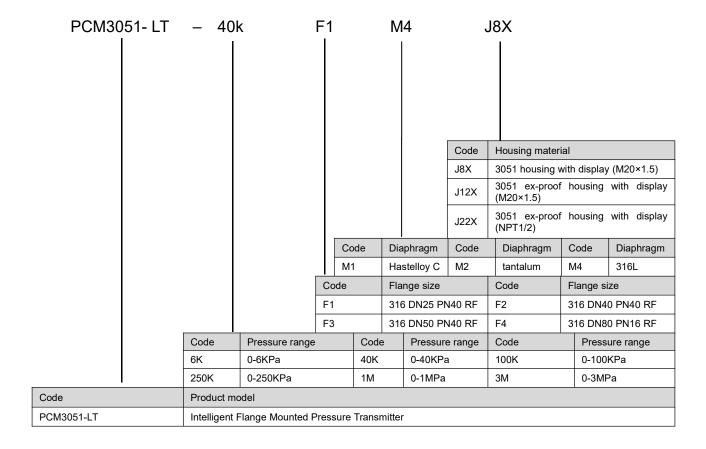


HART communication diagram





How to order



Example: PCM3051-LT-40k F3M4J8X

Product model: PCM3051-LT, pressure range 0 \sim 40kPa, Output: 4 to 20mA+HART protocol, Electrical connection: 3051 housing with display (M20 \times 1.5), Flange size: DN50 PN40, wetted diaphragm material: 316L

Ordering tips:

Accessories should be ordered separately.

Contact us

Nanjing Wotian Technology Co., Ltd.

Website: www.wtsensor.com

Add: 5 Wenying Road, Binjiang Development Zone, Nanjing, 211161, China

E-mail: dr@wtsensor.com