HPM188 anti-explosion pressure transmitter

Nanjing Hangjia Electronic Technology Co., Ltd.

Overview

HPM188 anti-explosion pressure transmitter adopts all stainless steel welded structure, specially designed for explosion-proof occasions.The internal sensor USES the silicon pressure core with high precision and high stability as the sensitive element, and the built-in signal conditioning circuit converts the sensor signal into standard current or voltage signal output, which can be directly connected with the computer, control instrument and display instrument.The product has excellent overall performance, easy installation, good shock resistance and impact resistance, and can be used for a long time in explosion-proof environment.

Application

chemical industry, coal mine, industrial process control and other flammable and explosive occasions.

Features

·Compact and lightweight design. This series of products excel in flameproof performance while being compact, lightweight, and visually appealing.
·Robust stainless steel construction. The transmitter boasts corrosion resistance, high protection grade, and can operate continuously.
·Excellent precision and stability. The silicon piezoresistive chip ensures temperature drift within the precision range through compensation, providing long-term stability and reducing maintenance needs.
·Dependable circuit with fast response. Specially developed integrated circuit ensures high reliability for 4~20mA pressure transmitters.

Technical Parameters

Measuring Medium: various liquid, gas or steam compatible with 304 or 316L stainless steel
Pressure Range: -100k...0~0.01...100MPa
Overload：1.5 times pressure range of full scale
Pressure Type：Gauge pressure, absolute pressure or sealed gauge pressure
Accuracy: ±0.5%FS
Long-term Stability：±0.2%FS/year
Temperature Coefficient of Zero：±0.03%FS/℃（Reference 25℃）
Temperature Coefficient of Full Scale：±0.03%FS/℃（Reference 25℃）
Working Temperature: -20~60℃
Storage Temp: -40~120℃
Supply Voltage: 5VDC, 24VDC
Output Signal: Two wire 4~20mADC, Three wire voltage etc.

Insulation Resistance：100MΩ，500VDC
Ingress Protection of Shell:IP65
Electrical Connection: Cable Outlet etc
.

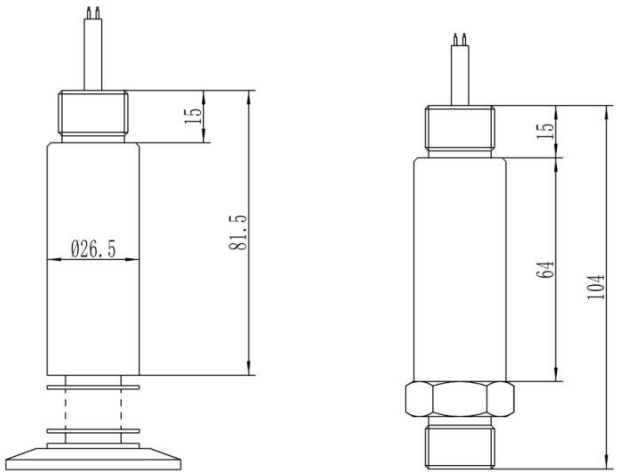
Structure Material

Housing: stainless steel 1Cr18Ni9Ti or 316L

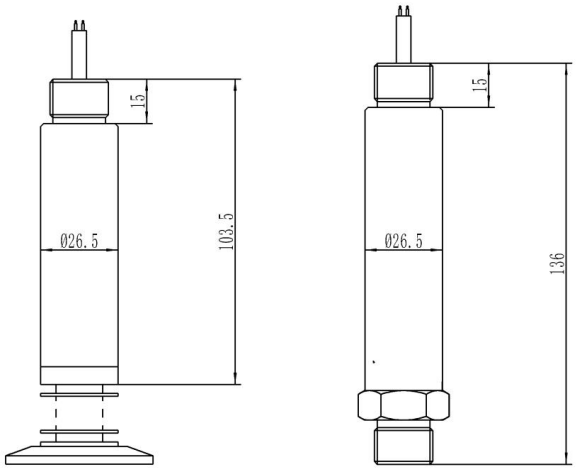
Diaphragm: stainless steel 316L

Structure Drawings

Sealed Gauge/Absolute Pressure Transmitter



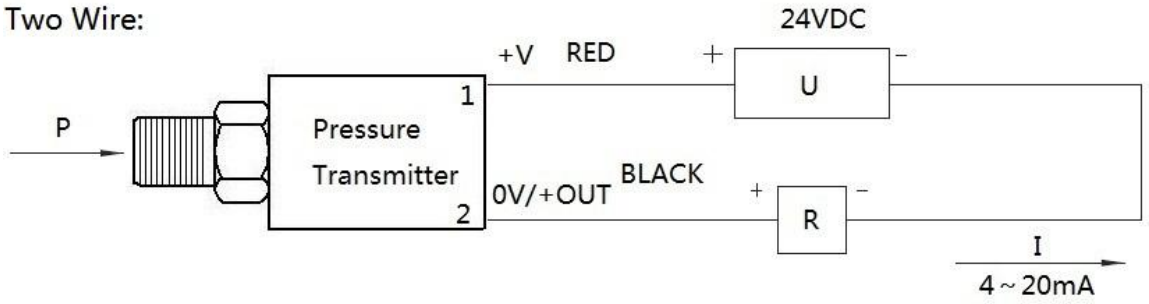
Gauge Pressure Transmitter



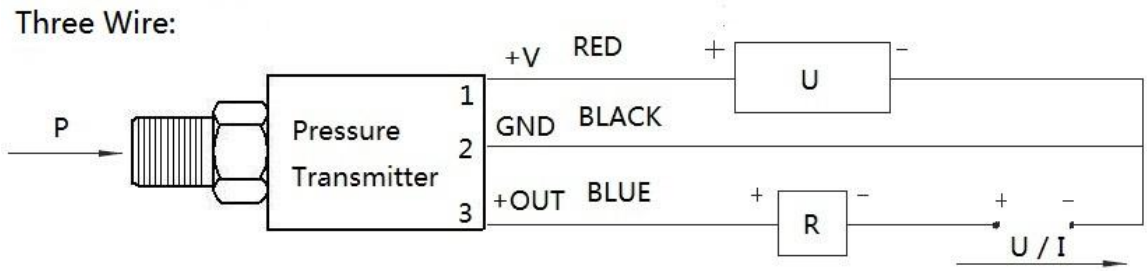
Electrical Connection

Wire Color	Two Wire Current	Three Wire Voltage
Red	Power（+V）	Power（+V）
Black	Power（0V/+OUT）	Common Port(GND)
Blue		Output（+OUT）

Two Wire:



Three Wire:



Ordering Guide

Item No.	Type							
HPM188	Anti-explosion Pressure Transmitter							
	Pressure Range	Measuring Range						
	(0~X)bar	Fill out X directly						
		Code	Output Signal					
		B1	(4~20)mA					
		B2	(0~10)mA					
		B3	(0~10)V					
		B4	(0~5)V					
		B5	(1~5)V					
		B6	(0.5~4.5)V					
			Code	Thread Spec				
			P1	M20×1.5				
			P3	G1/4				
			P4	G1/2				
			P8	NPT 1/2 M				
				Code	Electrical Connection			
				C2	Cable Output			
					Code	Structure&Material		
						Diaphragm	Interface	Shell
					M1	316L	316L	Stainless Steel
					M2	316L	316L	316L
					M3	Tantalum	Hastelloy	316L
					M4	Titanium	Titanium	316L
					M9	316L	gold plating	Stainless Steel
						Code	Additional Functions	
						G	Gauge Pressure（Default）	
						A	Absolute Pressure	
						S	Sealed Gauge Pressure	
						v	fluororubber O-Ring（Default）	
						J	NBR O-Ring	
						h	All-welded without O-Ring	
						V1	Supply Voltage 24VDC	
						V5	Supply Voltage 5VDC	
						Exd	Exd II CT4-T6 Gb	
HPM188	(0~25)bar	B1	P8	C1	M9	G V1Exd		