

HPM288 Anti-explosion Pressure Transmitter



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Overview

HPM288 Anti-explosion Pressure Transmitter adopts high-performance silicon piezoresistive pressure core. The inner AISC transforms the signal of transmitter to standard long-distance current, and can be directly connected with computer interface card, control instrument, intelligent instrument or PLC conveniently. This series of products can be widely used in industrial process control, petroleum, chemical, metallurgy, mining and other industries. This product conforms to GB3836.1-2010(Explosive atmosphere Part1: General requirements for equipment) and GB3836.2-2010(Explosive atmosphere Part2: the equipment protected by flameproof enclosure “d”). The explosion-proof mark is Exd II CT6. The anti-explosion pressure transmitter can work normally under the following altitude, ambient air temperature as well as environment relative humidity: altitude lower than 200 meters, ambient air temperature in the range of $-10^{\circ}\text{C} \sim +60^{\circ}\text{C}$; environment relative humidity 90% ($+25^{\circ}\text{C}$).

Features

- .isolation and explosion-proof Exd II CT6
- .aluminium alloy shell, ingress protection IP65
- .field display, 4-20mA DC signal output and other telecommunication signals
- .with polarity reversal protection, overcurrent and overvoltage protection
- .strong anti-jamming, long-term stability

Technical Parameters

Measuring Medium	Liquid, Gas, Steam
Pressure Range	-100kPa...0~10kPa...100MPa
Overload	1.5 times pressure range of full scale
Pressure Type	Gauge, Absolute or Sealed Gauge
Accuracy	$\pm 0.25\% \text{FS}$ (Representative), $\pm 0.5\% \text{FS}$ (Maximum)
Long-term Stability	$\pm 0.1\% \text{FS/year}$ (Representative), $\pm 0.2\% \text{FS/year}$ (Maximum)

Temperature Coefficient of Zero	$\pm 0.03\%FS/^{\circ}C$ (Reference $25^{\circ}C$)
Temperature Coefficient of Full Scale	$\pm 0.03\%FS/^{\circ}C$ (Reference $25^{\circ}C$)
Working Temp	$-30\sim 85^{\circ}C$
Storage Temp	$-40\sim 120^{\circ}C$
Supply Voltage	24VDC
Output Signal	4~20mADC or other customization
Output Mode	Two-wire, Three-wire
Insulation Resistance	100M Ω , 500VDC
Ingress Protection of Shell	IP65

Structure Material

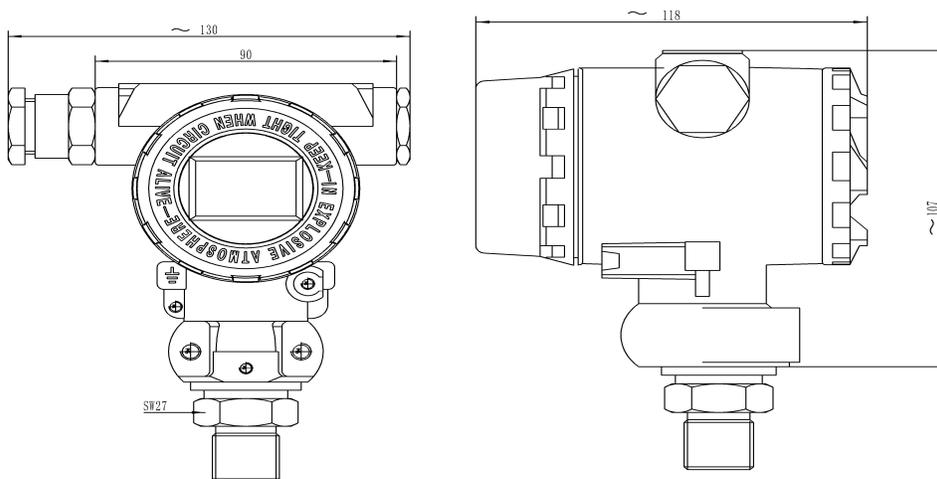
Shell: aluminum alloy

Pressure interface: stainless steel 1Cr18Ni9Ti

Diaphragm: stainless steel 316L

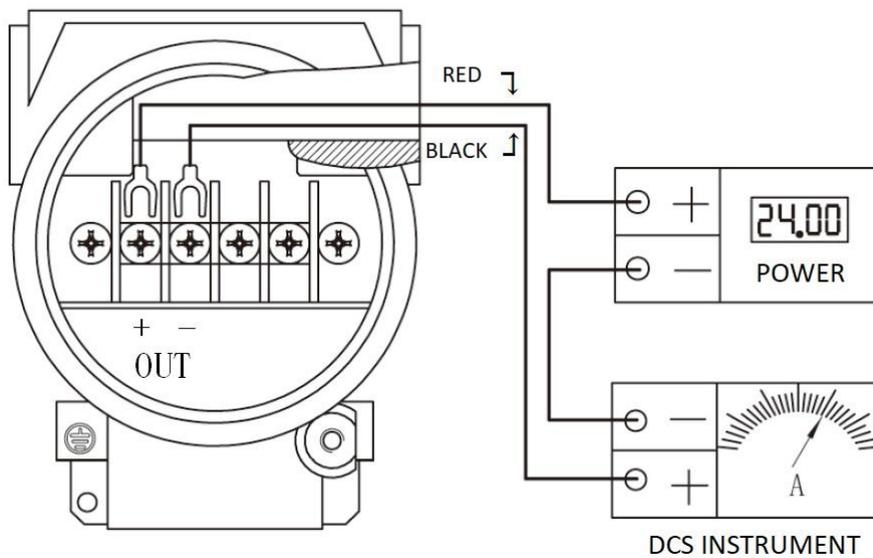
O-ring: fluoro rubber

Structure Drawings

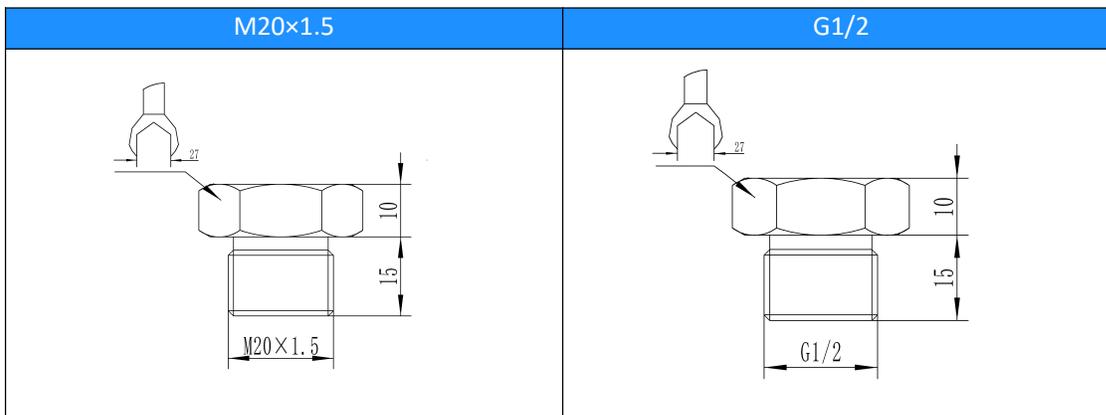


Electrical Connection

Pin	Wire Color	Two Wire Current
OUT+	Red	Power+ (+V)
OUT-	Black	Power- (0V/+OUT)
The Rest	N/A	N/A



Pressure Port



Ordering Guide

Item NO.	Type						
HPM288	Anti-explosion Pressure Transmitter						
	Pressure Range	Measuring Range					
	(0 ~ X)kPa	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				
		P4	G1/2				
		Code	Electrical Connection				
		C9	Cable Gland				
		Code	Structure&Material				
		M1	Diaphragm	Interface	Shell Material		
			316L	316L	Stainless Steel		
		M2	316L	316L	316L		
		M3	Tantalum	Hastelloy	316L		
		M4	Titanium	Titanium	316L		
		Code	Additional Functions				
		G	Gauge Pressure (Default)				
		A	Absolute Pressure				
		S	Sealed Gauge Pressure				
		v	Fluororubber O-Ring (Default)				
		j	Buna-n O-Ring				
		h	All-welded without O-Ring				
		d	Explosion-proof Type, Exd II CT6				
		D1	LED Display				
		D2	LCD Display				
HPM288	(0~600)kPa	B1	P1	C9	M1	G d	