

HPM20F Flange Diaphragm Pressure Transmitter



Nanjing Hangjia Electronic Technology Co., Ltd.

Overview

HPM20F Flange Diaphragm Pressure Transmitter regards international standard flange as the interface standard to achieve the requirements of flange field installation. It has advanced technology and adopts high stable and reliable silicon piezoresistive pressure sensor as signal measuring element. And it is processed through automatic testing and laser trimming to achieve wide temperature compensation. This product has stable and reliable performance because they all pass the strict testing and long-term ageing testing. HPM20F can meet the requirements of corrosion resistance and sanitation, which is can be widely used for pressure measurement in the fields of machinery, metallurgy, petrochemical, power, food and medicine.

Application

- .For corrosive media measurement
- .For the measured medium has a solid suspension or high viscosity of the medium, easy to clogging
- .For the measured medium with a pressure tube out of easy crystallisation or solidification
- .For the need to replace the measured medium of the occasion, you can flush the pressure port to prevent mixing of media
- .For high hygiene requirements, the need to prevent contamination of the occasion

Features

- .various optional materials for isolation diaphragm, high anti-corrosion grade
- .hygienic style, easy to clean, no dead angle
- .aluminium alloy shell, ingress protection IP65
- .field display, 4-20mADC signal output and other telecommunication signals
- .with polarity reversal protection ,overcurrent and overvoltage protection

- .zero-scale and full-scale adjustable
- .strong anti-jamming, long-term stability

Technical Parameters

Measuring Medium	Liquid, Gas, Steam
Pressure Range	0~20kPa...10MPa
Overload	1.5 times pressure range of full scale
Pressure Type	Gauge, Absolute or Sealed Gauge
Accuracy	±0.5%FS
Long-term Stability	±0.2%FS/year
Temperature Coefficient of Zero	±0.03%FS/°C (Reference 25°C)
Temperature Coefficient of Full Scale	±0.03%FS/°C (Reference 25°C)
Working Temp	-30~85°C
Medium Temp	-40~120°C
Supply Voltage	24VDC (12~30V)
Output Signal	4~20mADC or customized
Output Mode	Two wire, Three wire
Load Resistance	≤(U-12)/0.20Ω
Insulation Resistance	100MΩ, 500VDC
Ingress Protection of Shell	IP65
Electrical Connection	Dedicated shield cable

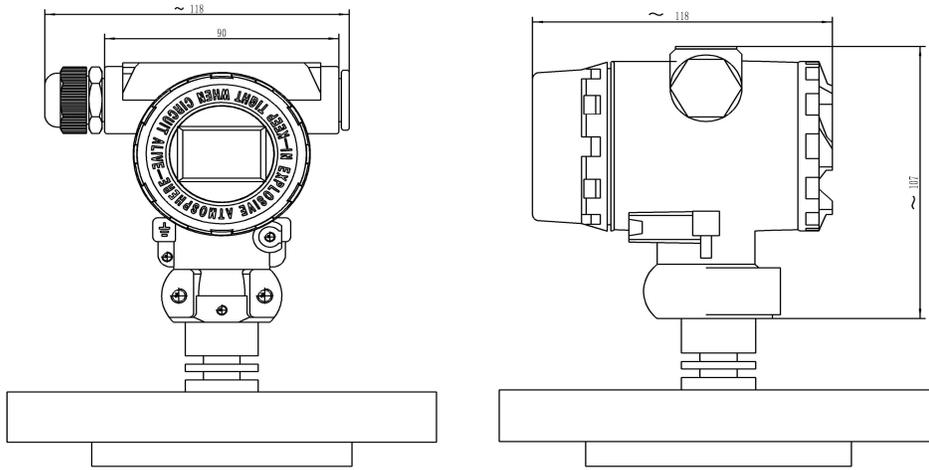
Structure Material

Shell: aluminum alloy

Flange: stainless steel 304 or 316L

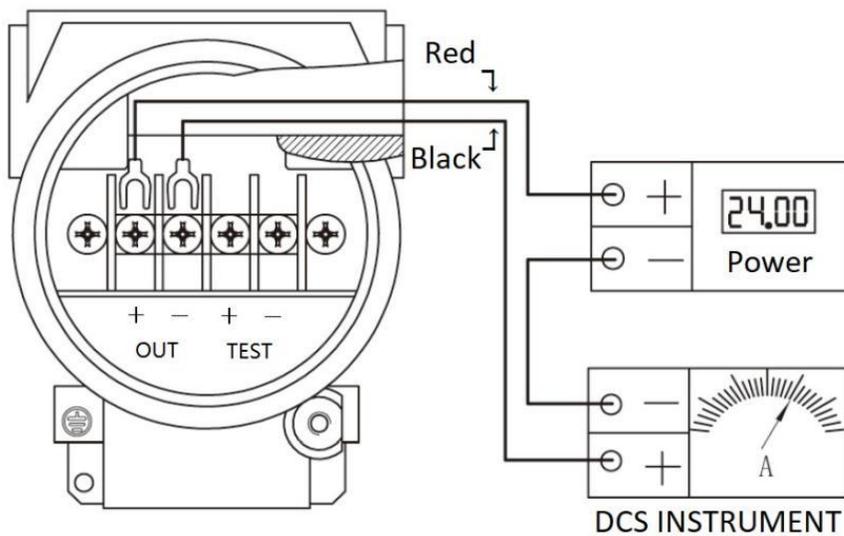
Diaphragm: stainless steel 316L, tantalum, hastelloy C, gold plating, PTFE lining, PFA spray, etc
Filling oil: silicon oil, fluorine oil (optional)

Structure Drawings



Electrical Connection

Terminal	Wire Color	Two Wire
OUT+	RED	Power+ (+V)
OUT-	BLACK	Power- (0V/+OUT)
The rest	N/A	N/A



Ordering Guide

Item NO.	Type					
HPM20F	Flange Diaphragm 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	Flange Connection			
		F20	DN20			
		F25	DN25			
		F50	DN50			
		F80	DN80			
		Code	Electrical Connection			
		C9	cable gland			
		Code	Isolation Diaphragm			
		S6	316L			
		HC	Hastelloy C			
		TI	Tantalum			
		GD	Gold Plating			
		FE	PTFE			
		PA	PFA			
		Code	Additional Functions			
		G	Gauge Pressure (Default)			
		d	Explosions-proof type, Exd II CT6			
		D1	LED Display			
		D2	LCD Display			
HPM20F	(0~100)kPa	B1	F25	C9	PA	GD2