

HPM3189 High Temperature Differential Pressure Transmitter



Nanjing Hangjia Electronic Technology Co., Ltd.

Overview

HPM3189 High Temperature Differential Pressure Transmitter adopts imported pressure core against high temperature as sensitive element, which transforms the pressure of measured medium to pressure sensor by heat radiation structure of transmitter. The signal circuit with low temperature drift in the stainless steel shell transforms the signal of transmitter to standard current signal output. It can be directly connected with computers, control instruments, display instruments, etc. This products used integrative stainless steel structure with many features such as excellent functions, easy installation, impact resistance and vibration resistance. The high temperature resistance core and heat radiation structure guarantee it can be used for high temperature medium for a long time.

Application

Equipment matching, scientific experiment, precision instrument, water supply and drainage, power plant, HVAC and other fields of differential pressure, liquid level, flow measurement and control

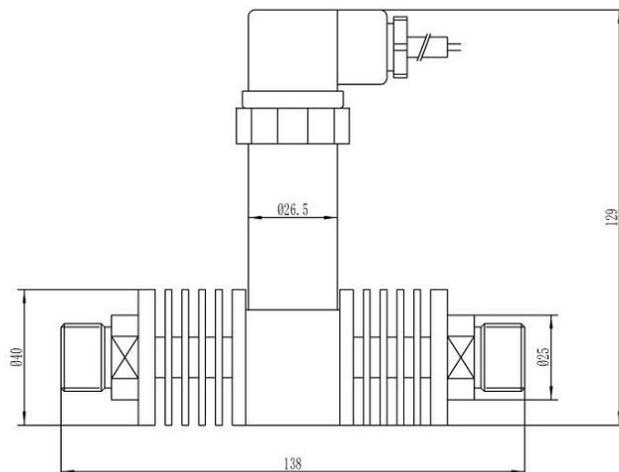
Features

- .Imported differential pressure core against high temperature
- .Wide temperature range for medium
- . Ingress protection IP65
- .With polarity reversal protection ,overcurrent and overvoltage protection, meet EMI protection requirements
- .Impact resistance, anti-vibration and corrosion resistance

Technical Parameters

Measuring Medium	Liquid, Gas (compatible with 304 or 316L stainless steel)
Pressure Range	0~0.01...3.5MPa
Overload	2 times the full scale
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	-30~130°C
Supply Voltage	24VDC
Output Signal	Two-wire 4~20mADC
Insulation Resistance	100MΩ, 500VDC
Protection of Shell	IP65
Electrical Connection	DIN43650 or Cable Outlet or Aviation plug
Housing Material	304, 316L

Structure Drawings



Electrical Connection

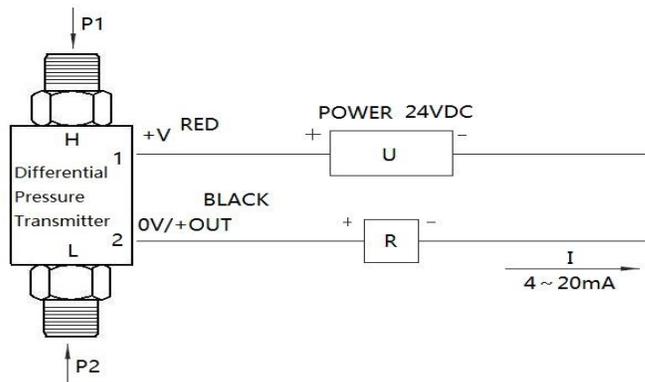
Hirschman Connector Wiring Method

Pin	Two Wire Current	Three Wire Voltage
1	POWER+ (+V)	POWER+ (+V)
2	POWER- (0V/+OUT)	Common Port(GND)
3	N/A	Output (+OUT)

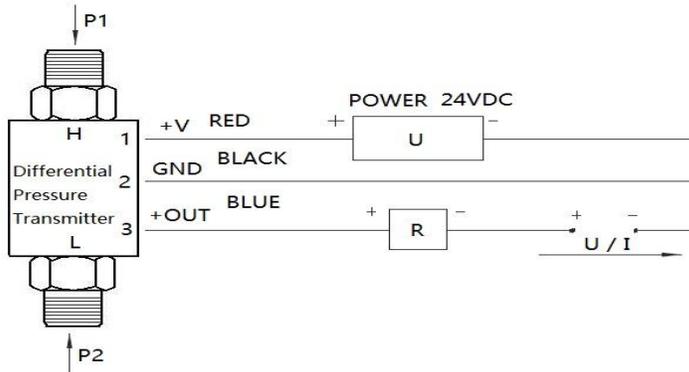
Cable type wiring method

Wire Color	Two Wire Current	Three Wire Voltage
RED	POWER+ (+V)	POWER+ (+V)
BLACK	POWER- (0V/+OUT)	Common Port(GND)
BLUE	N/A	Output (+OUT)

Electrical wiring diagram of two wire 4-20mADC output transmitter



Electrical wiring diagram of three-wire voltage output transmitter



Ordering Guide

Item NO.	Type					
HPM3189	High Temperature Differential Pressure Transmitter					
	Pressure Range	Measuring Range				
	(0~X)MPa	Fill out X directly				
		Code	Output Signal			
		B1	(4~20)mA			
			Code	Thread Spec		
			P1	M20×1.5		
			P3	G1/4		
			P4	G1/2		
			Code	Electrical Connection		
			C1	DIN43650		
			C2	Cable Outlet		
			C3	Aviation Connector		
			Code	Structure&Material		
				Diaphragm	Interface	Shell
			M1	316L	316L	Stainless Steel
			M2	316L	316L	316L
			M3	Tantalum	Hastelloy	316L
			M4	Titanium	Titanium	316L
				Code	Additional Functions	
				v	Fluororubber O-Ring (Default)	
HPM3189	(0~0.6)MPa	B1	P1	C1	M2	v