

HPM320 Differential Pressure Transmitter



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Overview

HPM320 Differential Pressure Transmitter adopts silicon piezoresistive differential pressure core. The process interface is all stainless steel structure with strong corrosion resistance. The pressure interface is source nipple connection which is can be installed at the measuring piping or connected through impulse piping. This product had standard voltage and current outputs and other options. It is easy installation, can be widely used for the measurement and control of differential pressure, liquid level and flow in the fields of process control, aerospace, automotive, medical equipment, HVAV, etc.

Application

Differential pressure, liquid level and flow measurement and control in equipment supporting, process control, aerospace, automobile, medical equipment, water supply and drainage, HVAC and other fields

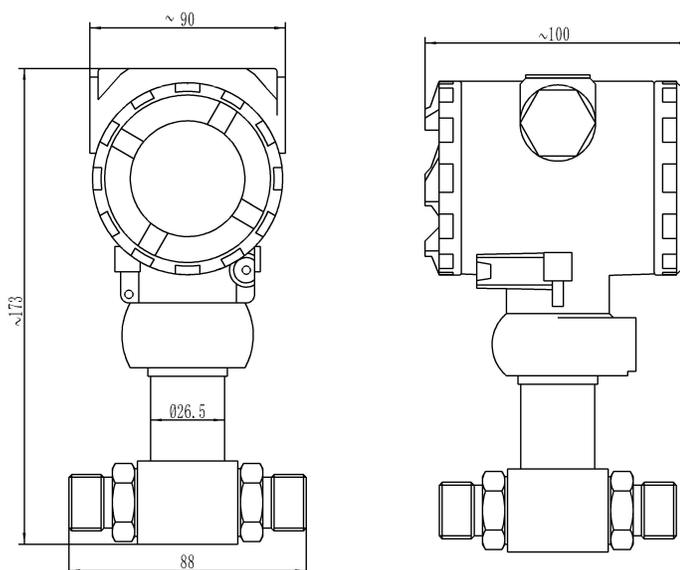
Features

- .316L stainless steel diaphragm isolation structure
- .Measure differential pressure
- .Aluminium alloy protection shell, ingress protection IP65
- .Short-circuit protection and reverse polarity protection
- .Impact resistance, anti-vibration and electromagnetic compatibility resistance
- .Customization according to requirement

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
Supply Voltage	24VDC
Output Signal	Two-wire 4~20mADC, Three-wire voltage signal
Insulation Resistance	100MΩ, 500VDC
Protection of Shell	IP65
Electrical Connection	Cable Outlet
Housing Material	304, 316L

Structure Drawings



Structure Material

Housing: stainless steel 304 or 316L

Diaphragm: stainless steel 316L

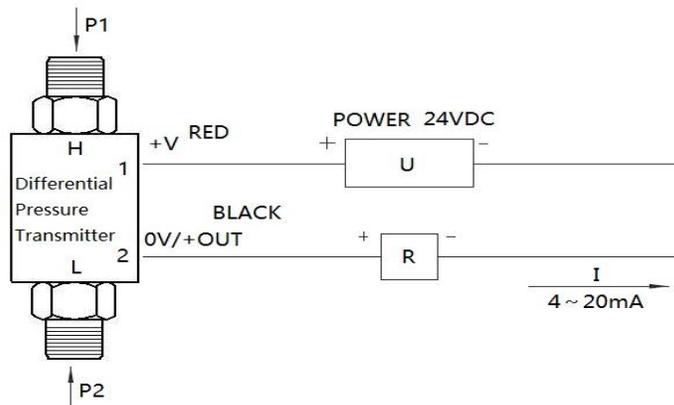
O-ring: fluoro rubber

Electronic housing: aluminum alloy

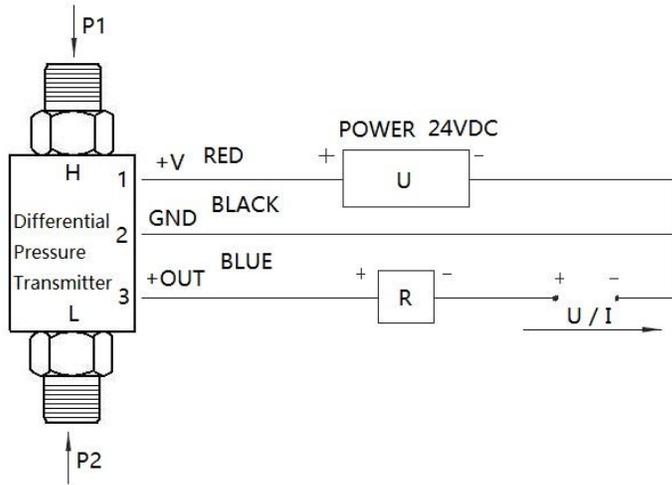
Electrical Connection

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

Electrical wiring diagram of 2 - wire 4-20mADC output transmitter



Electrical wiring diagram of three-wire voltage output transmitter



Ordering Guide

Item NO.	Type							
HPM320	Differential Pressure Transmitter							
	Pressure Range	Measuring Range						
	(0~X)MPa	Fill out X directly						
		Code	Output Signal					
		B1	(4~20)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					
		C2	Cable Outlet					
		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)	
						D1	LED Display	
						D2	LCD Display	
HPM320	(0~0.5)MPa	B1	P1	C2	M1	v D2		