

HPM788 Ceramic Hygienic Pressure Transmitter



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Overview

HPM788 Ceramic Hygienic Pressure Transmitter adopts imported ceramic sensor as sensitive element, and flat film encapsulation mode directly receives pressure signal. With the high elasticity, wear resistance, corrosion resistance, quick heat dissipation of ceramic, the transmitter has excellent heat stability and very low temperature excursion. Meanwhile, the minimal range is 300Pa and the overload capacity can reach dozens of times of full-scale, which totally solves the problems for the defective overloaded capacity for the small range. So it is very suitable for measuring micro pressure. As the ceramic sensor has no filling liquid, so it won't create process pollution. And its dry-type ceramic diaphragm isn't effected by the way of installation. Because the exposed stress diaphragm at the end of clamp can directly receive the pressure, it can solve the problems like scale formation, insanitation and blocking of viscous pressure. This product can be widely used in medicine, food, liquor-making and other hygienic industries or in the field where the measuring medium is easy to scale.

Application: medicine, food, brewing, dairy products, drinks and other viscous clog health requirements of convenient cleaning occasions; Environmental protection chemical coatings, polyurethane equipment, paint detection system

Features

- .hygienic type design, conform to GMP, EHEDG and FDA standards
- .the pressure core without filling liquid, suitable for food, medicine and other industries
- .flat film structure, easy to clear, and scale formation resistance
- .with great vibration resistance and impact resistance
- .suitable for measuring absolute pressure, gauge pressure and negative pressure
- .optional various output signals , can be customized according to requirements

Technical Parameters

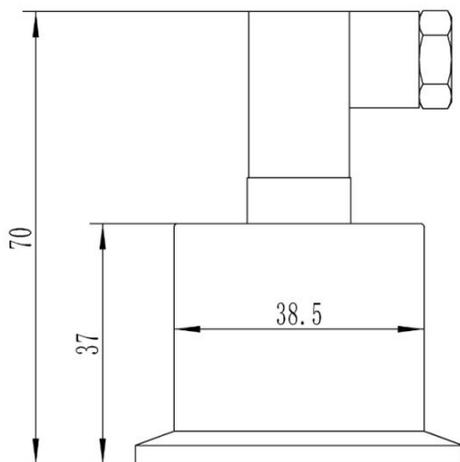
Measuring Medium: various liquid, gas or steam compatible with ceramic or 316L stainless steel
Pressure Range : -100kPa...0~300Pa...7MPa(Gauge pressure); 0~10kPa...7MPa(Absolute pressure)
Pressure Type: Gauge pressure, absolute pressure or composite pressure

Accuracy: $\pm 0.2\%FS$ (Representative); $\pm 0.5\%FS$ (Maximum)
Long-term Stability: $\pm 0.1\%FS/year$
Temperature Coefficient of Zero: $\pm 0.01\%FS/^\circ C$ (Reference $25^\circ C$)
Temperature Coefficient of Full Scale: $\pm 0.01\%FS/^\circ C$ (Reference $25^\circ C$)
Compensation Temperature: $-20\sim 80^\circ C$
Medium Temperature: $-40\sim 125^\circ C$

Supply Voltage : 24VDC

Output Signal: 4~20mADC, 0.5~4.5VDC etc.
 Ingress Protection of Shell: IP65
 Electrical Connection: DIN43650, cable outlet, etc.

Structure Drawings (unit:mm)

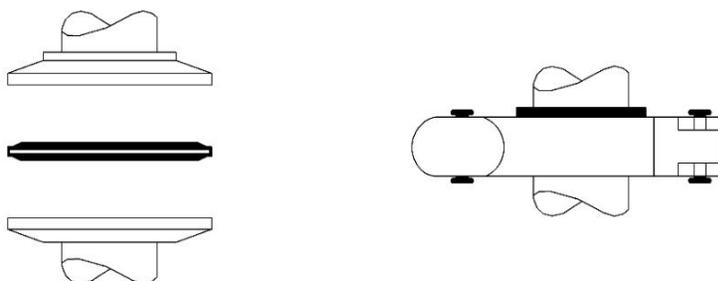


Pressure Port (unit:mm)

Installation Instruction			
Dimensional Drawing			
Standard	Spec	Dimension(ΦD)	Diaphragm Dimension(ΦM)
Tri-Clamp	1-1/2"	50.5	30
Tri-Clamp	2"	64	42

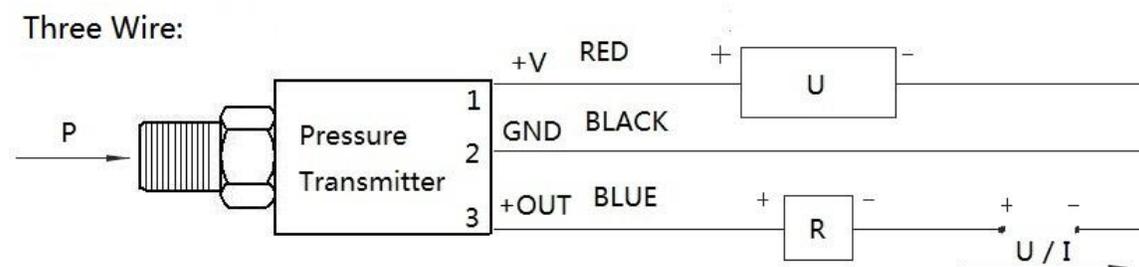
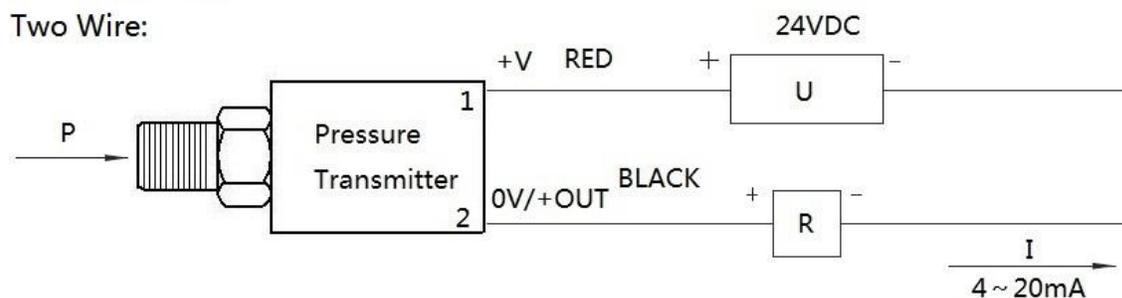
Process Connection

Clamp Installation: choose the gasket that conforms to the hygiene standard to avoid the measurement error caused by over-locking the clamp and squeezing the gasket and diaphragm



Electrical Connection

Cable Outlet	M12x1	Hirschman	Two Wire Current	Three Wire Voltage
RED	1	1	Power+ (+V)	Power+ (+V)
BLACK	2	2	Power- (0V/+OUT)	Common Port (GND)
BLUE	3	3	N/A	Output+ (+OUT)



Ordering Guide

Item NO.	Type					
HPM788	Ceramic Hygienic Pressure Transmitter					
	Pressure Range	Measuring Range				
	(0~X)kPa	Fill out X directly				
		Code	Output Signal			
		B1	(4~20)mA			
		B3	(0~10)V			
		B4	(0~5)V			
		B5	(1~5)V			
		Code	Thread Spec			
		K1	Tri-Clamp 1-1/2" Quick Clamp			
		K2	Tri-Clamp 2" Quick Clamp			
		K3	DIN11851 DN25 Joint Nut			
		K4	DIN11851 DN40 Joint Nut			
		K5	SMS DN1-1/2" Joint Nut			
		K6	SMS DN2" Joint Nut			
		F20	DN20 Flange Connection			
		Code	Electrical Connection			
		C1	DIN43650			
		C2	Cable Outlet			
		C5	M12x1			
		Code	Structure&Material			
	M6	Ceramic Capacitor				
	Code	Additional Functions				
	Y2	Protective Shell				
	Y5	Delicate Protecting Jacket				
	S4	Thread 304 Material				
	S6	Thread 316L Material				
HPM788	(0~1)kPa	B1	K1	C1	M6	Y5 S6