HPM718-H High Temperature Flush Membrane

Ceramic Capacitor Pressure Transmitter



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Overview

HPM718-H high temperature flush membrane pressure transmitter adopts advanced ceramic capacitive pressure sensor as the sensitive element, threaded installation and flush membrane structure design. Ceramics have the characteristics of high elasticity, wear resistance, corrosion resistance, and fast heat dissipation, which make the transmitter a very good thermal stability, so that it can be used normally in the range of degrees Celsius, and the temperature drift is extremely low. At the same time, the minimum measuring range of this product can reach 2.5kPa, and the anti-overload capacity in the small range can reach dozens of times of the full scale, which completely solves the problem of poor overload capacity in the small range, and it is very suitable for micro-pressure measurement.

Application:Measurement of gauge or absolute pressure of gases, vapors or liquids in the field of industrial process control/ Printing and dyeing industry/Food industry/Pharmaceutical industry/ Environmental protection industry.

Features

Full stainless steel shell
Ceramic capacitor core, corrosion-resistant and wear-resistant
Micro-pressure measurement, high overload pressure
Flush membrane structure, easy to clean, anti-clogging and scaling
Applicable medium temperature up to 140°C
Suitable for CIP and SIP in health industry
Support a variety of output signals and a variety of electrical interfaces

Technical Parameters

Measuring Medium: various liquid, gas or steam compatible with ceramic Pressure Range: -100kPa...0~2.5kPa...100bar(Gauge pressure);-100kPa...0~2.5kPa...100bar (Absolute pressure) Pressure Type: Gauge pressure, absolute pressure Accuracy: ±0.25%FS (Representative); ±0.1%FS (High accurate type) Long-term Stability: ±0.15%FS/year Temperature Coefficient of Zero: ±1.0%FS/°C (Reference 25°C)

Temperature Coefficient of Full Scale: $\pm 1.0\%$ FS/ $^{\circ}$ C (Reference 25 $^{\circ}$ C)

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Operation Temperature: -40~85 °C Medium Temperature: -40~140 °C, at 140 °C, max 120mins Storage Temperature: -40~85 °C Supply Voltage: 24VDC Output Signal: 4 \sim 20mADC,0.5 \sim 4.5VDC,etc. Ingress Protection of Shell: IP65(can do IP69K) Electrical Connection: Aviation Connector, Cable Output,Hirschmann, etc

Structure Drawings



Electrical Connection



Two wires 4 ~ 20mA Output				
Signal definition	Power + (+V)	Power - (0V/+OUT)		
M12×1	1	2		
M12×1, with cable	Brown	Black		
DIN43650	1	2		
Cable outlet	Red	Black		

Three wires 0~5V/10V Output					
Signal definition	Power + (+V)	Power - (GND)	Signal+ (+OUT)		
M12×1	1	2	3		
M12×1, with cable	Brown	Black	Blue		
DIN43650	1	2	3		
Cable outlet	Red	Black	Blue		

Four wires Modbus-RTU/RS485						
Signal definition	Power +(+V)	Power -(-V)	RS485A	RS485B		
M12×1	M12×1 1		2 3			
M12×1, with cable	Brown	Black	Blue	White		
DIN43650	1	2	3	4		
Cable outlet	Red	Black	Yellow	Green		





Process Connection



Tips:

1. The thread length of the pressure transmitter must be less than the depth of the base thread to ensure the effective seal of the root gasket

2. Flush film pressure transmitter front diaphragm can not touch the bottom of the base

Ordering Guide

Item NO.	Туре							
HPM718-H	Flat Film 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					
		B7	RS485					
			Code	Thread Spec				
			KG1	G1" male flush film				
			KG112	G1-1/2" male flush film				
				Code	Electrical Connection			
				C1	DIN output			
				C2	Cable Output			
				C5	M12×1 4pin			
				C5X	M12*1 with cable			
					Code	Housing Material		
					S4	SS304(Default)		
					\$6	SS316L		
						Code	Wet Material	
						S6	316L(default)	
						DF	PVDF	
						НС	Hastelloy	
							Code	Additional Functions
							G	Gauge Pressure (Default)
							A	Absolute Pressure
							QF	Provide test report
							F1	FKM o-ring
							F2	FFKM o-ring
							SI	VMQ o-ring
								Other requirement
HPM718-H	(0~20)kPa	B1	P19	C5	S4	GF1		