

HuaTian

HPT-7

Introduction:

HPT-7 uses piezoresistive differential pressure sensor as sensing element. Silicon oil is filled in between die and two diaphragms, when measured differential pressure is added on two diaphragms; the pressure could be transferred onto die through silicon oil. Sensor die connects with amplifier circuit through wires, using semiconductor's piezoresistive effect, transforming differential pressure signal into electric signal. The whole product is used for differential pressure measurement of water, chemi-industry, power station and hydrology, etc

Features:

- Compact design, easy to install
- Wide measuring range : 0~35kPa~7MPa
- Double sided 316L metal diaphragm
- Strong corrosion resistance
- High accuracy ,Reliable

Applications:

- Leak detection
- Flow(Air and Fluid)
- Level(Sealed Tank)
- Process control
- Automation equipment



Specifications(Refer to 25℃)

Sensor Type	Differential sensor	Operable Temp. (℃)	-20~85℃
Wetted parts	316L Stainless steel	Storage Temp (℃)	-20℃ ...125℃
Housing	304 Stainless steel	Long term stability	±0.25%FS(annual)
Power supply	12-36VDC (24Vstandard)	Zero error (%FS)	±0.5%
Media	Be compatible with 316	Full range error (%FS)	±0.5%
Connector Outlet	IP65	Thermal Zero drift (%FS)	±1.0%
Pressure port	C1 M20*1.5 C2 M14*1.5	Thermal Span drift (%FS)	±1.0%
Accuracy (Combined Non-linearity, Hysteresis and Non-repeatability) %FS	0.5%(Typical)	Input Voltage / Output	See below code description
		Response	1KHz
Pressure Range	0-35Kpa-7Mpa	Insulation	Min1MΩ @250VDC&25℃
		Shock	100g, 11msec
Over pressure	2X Full Range	Noise	< 2m VRMS
Max static pressure	8X Full Range	Pressure reference	Differential
Life	>10 ⁷ Full Range Pressure	Weight	400g Max.

- Thermal drift refer to 25℃ output

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HPT-7 pressure transducer model code

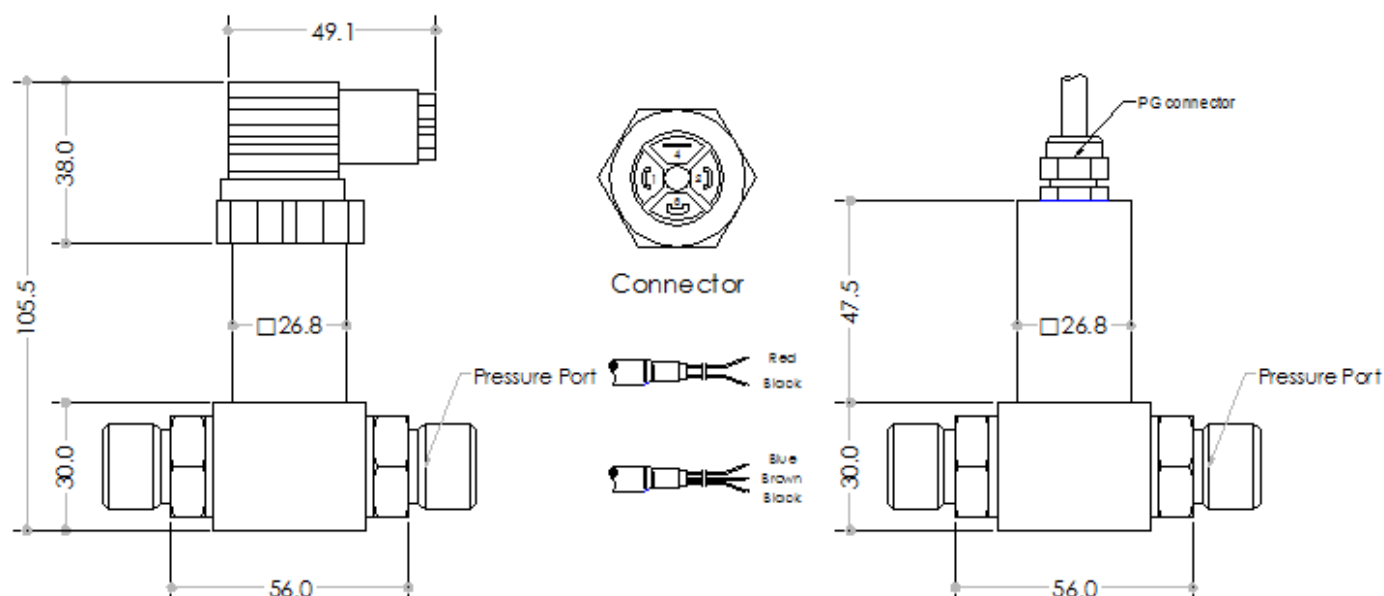
Model	Description						
HPT-7	Differential pressure transmitter						
	Range/Code	Pressure unit					
	0-X P	Pa					
	0-X K	Kpa					
	0-X B	Bar					
	0-X M	Mpa					
		Code	Output Signal				
		E	4-20mA two wire				
		Z	Customized				
			Code	Accuracy (%FS)			
			J1	0.1			
			J2	0.25			
			J3	0.5			
				Code	Pressure port		
				C1	M20*1.5		
				C2	M14*1.5		
				C3	G1/2		
				C4	G3/8		
				C5	G1/4		
				C6	1/2NPT		
				C7	1/4NPT		
				C8	ZG1/4		
				X	Customized		
					Code	I/O Outlet	
					B1	Hirschmann Connector	
					B2	Direct cable	
					X	Customized	
						Code	Pressure reference
						D	Differential

Example:

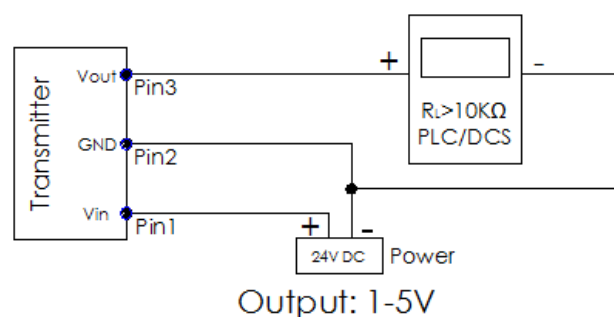
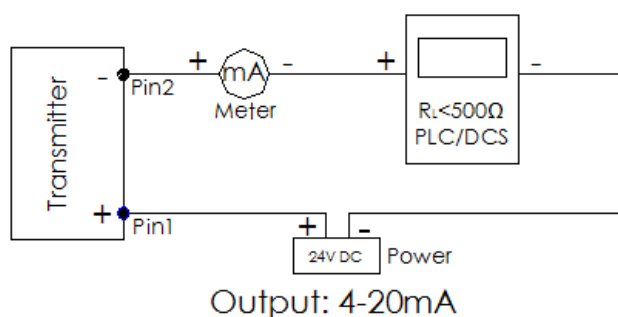
HPT-7	10B	E	J3	C3	X	D	
HPT-7	10Bar	4-20mA	0.5%	G1/2	Customized	Differential	

Model Choose:HPT-7-10B-EJ2C3XD

Outline Construction (Unit:mm)



Electric Circuit:



Pin	2-Wire (Current)
1	Vsupply+ (Vs+)
2	Vsupply- (Vs-)
3	NC

Pin	3-Wire (Voltage)
1	Vsupply+ (Vs+)
2	Voutput+ (Vo+)
3	GND

Pressure Port Dimension:

Code	Pressure port	"L" (mm)
C1	M20*1.5	16
C2	M14*1.5	14
C3	G1/2	16
C4	G3/8	
C5	G1/4	12
C6	1/2NPT	
C7	1/4NPT	13.8
C8	ZG1/4	13.8