

HuaTian

HPT-5

Instruction:

HPT-5 high temperature transmitter uses high temperature pressure sensor as sensing element. The media is transferred onto sensor through heating cooling parts, and high accuracy amplified circuit board is in stainless steel housing, transmitting sensor signal into standard output signal. The whole product is produced through components making, semi-finished product and all-finished product strict testing and aging, having stable and reliable performance. The transmitter is widely used for high and low measurement and control of food, medicine, power station, engineering, automobile, ship manufacture, petroleum, metallurgy, steam and heat exchanging, aviation, spaceflight, and scientific research and laboratory instrument, etc.

Features:

- Good anti-impact, anti-shock ability
- Zero, full range of convenient adjustment
- Full welded sensor with pressure port
- Long life span
- Good temperature characteristics, small drift

Applications:

- Hydraulic/Pneumatic Control Systems
- Energy and Water Management
- Automation equipment
- Process control
- Steam



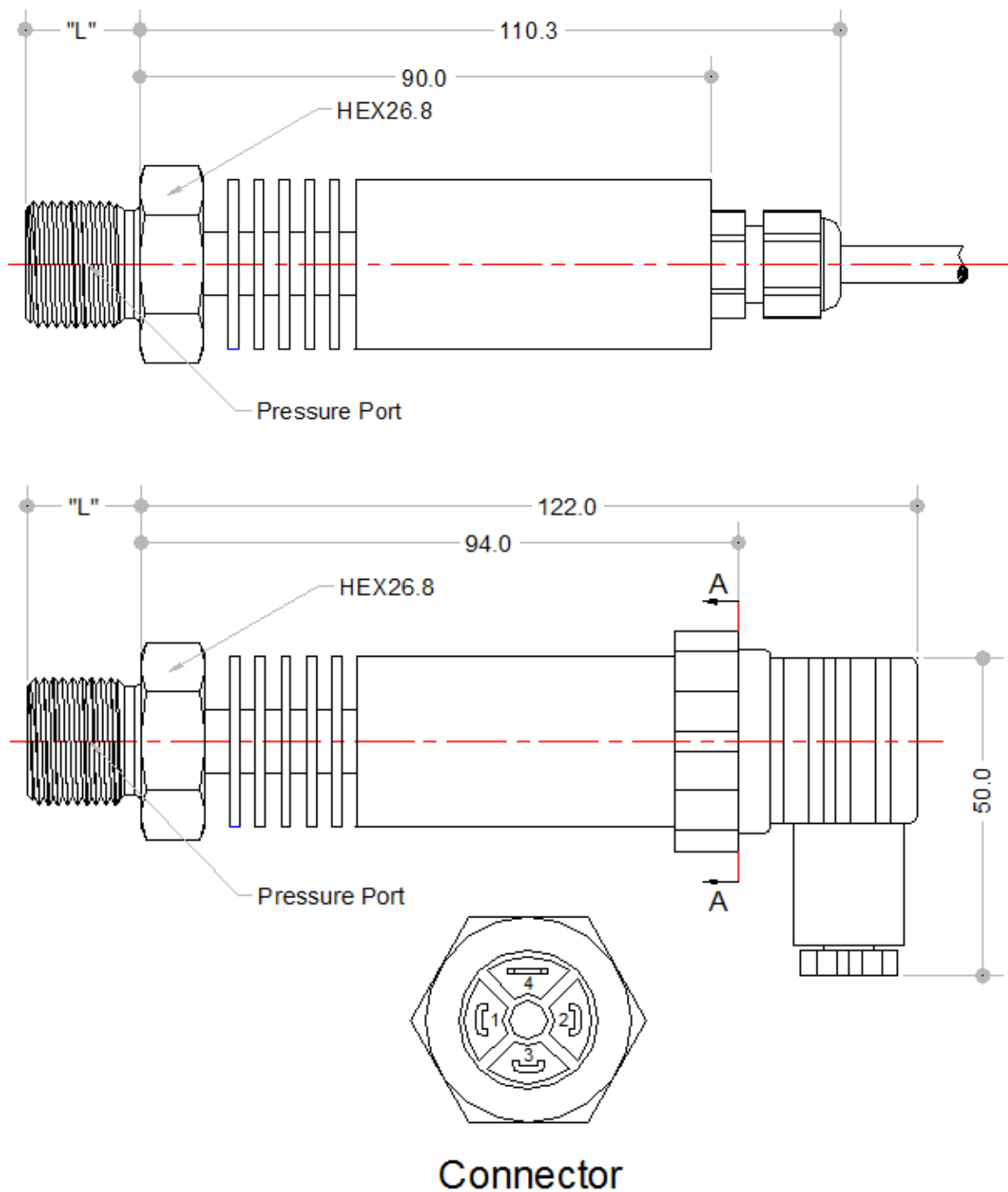
Specifications(Refer to 25℃)

Sensor Type	Piezoresistive	Operable Temp. (℃)	-20~250℃
Wetted parts	316L Stainless steel	Storage Temp (℃)	-20℃...125℃
Housing	304 Stainless steel	Long term stability(annual)	±0.25%FS(Typical)
Sealing method	O-Ring	Zero error (%FS)	±0.5%
Media	Be compatible with 316	Full range error (%FS)	±0.5%
Protection grade	IP65	Thermal Zero drift (%FS) *	±2.0%
Pressure port	See below code description	Thermal Span drift (%FS) *	±2.0%
Accuracy (Combined Non-linearity, Hysteresis and Non-repeatability) %FS	0.5%(Typical),0.25% ,0.1%	Input Voltage / Output	See below code description
		Response	1KHz
Pressure Range(Bar)	0~0.1...600Bar	Insulation	Min1MΩ @250VDC&25℃
		Shock	100g, 11msec
Over pressure	3X Full Range	Noise	< 2m VRMS
Burst pressure	4X Full Range or 20kpsi which is less	Pressure reference	Absolute /Vent Gauge/ Seal Gauge
Life	>10 ⁷ Full Range Pressure	Weight	180g Max.

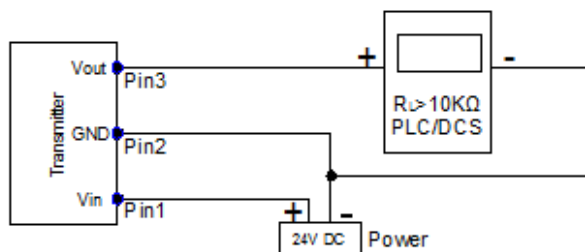
■ Thermal drift refer to 25℃ output

HuaTian						HPT-5			
HPT-5 pressure transducer model code									
Model		Description							
HPT-5		High temperature pressure transmitter							
	Range/Code		Pressure unit						
	0-X P		Pa						
	0-X K		Kpa						
	0-X B		Bar						
	0-X M		Mpa						
	0-X S		PSI						
	0-X m		Mh2o						
			Code	Output Signal					
			E	4-20mA two wire					
			W	4-20mA three wire					
			Z	others					
				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			
					P	Flat Membrane /clamp			
					X	Customized			
						Code	I/O Outlet		
						B1	Big Hirschmann Connector		
						X	Customized		
							Code	Pressure reference	
							G	Vent Gauge	
							A	Absolute	
Example:									
HPT-5	10B	E	J2	C3	X	G			
HPT-5	10Bar	4-20mA	0.25%	G1/2	Customized	Gauge			
Model Choose:HPT-5-10B-EJ2C3XG									

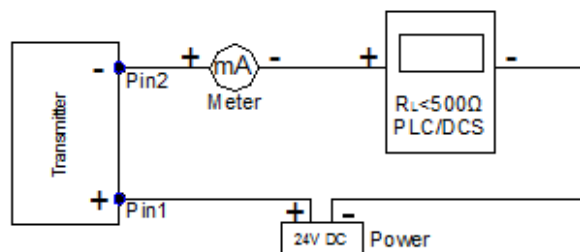
Outline Drawing:



Electric Circuit:



Output: 1-5V



Output: 4-20mA

Pin	2-Wire (Current)		Pin	3-Wire (Voltage)
1 (Red)	Vsupply+ (Vs+)		1 (Blue)	Vsupply+ (Vs+)
2 (Black)	Vsupply- (Vs-)		2 (Brown)	Voutput+ (Vo+)
3	NA		3 (Yellow)	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