

HuaTian

HPT-34

Instruction:

HPT-34 Submersible Level Transmitters use high performance piezoresistive pressure sensor as sensing elements. It measures liquid static pressure accurately which is positive proportional to liquid depth, transmitting pressure signal into standard current/voltage output signal by amplifier circuit board. The product has high accuracy, compact size and easy operation characteristics, for it can be submersible into the liquid to measure level from transmitter bottom to liquid surface. For the liquid measure and control of petroleum, chemi-industry, power station, city water supply and drainage and hydrology, it is widely used.

Features:

- Zero point and the full rang adjustable
- Good corrosion resistance
- Three heavy lightning anti-interference design
- Anti condensation process
- Cable with integrated air tube transmission

Applications:

- Drinking water system and ground water
- Level measurement in container
- Sewage
- Water recycling
- Fuel storage and tank farm



Specifications(Refer to 25°C)

Sensor Type	Piezoresistive	Operable Temp. (°C)	-20~85°C
Wetted parts	316L Stainless steel	Storage Temp (°C)	-20°C...85°C
Probe Housing	SS 304(standard) SS316	Shock	100g, 11msec
Junction box	Cast aluminum	Noise	< 2m VRMS
Sealing method	O-ring	Zero error (%FS)	±0.5%
Protection grade	IP68	Full range error (%FS)	±0.5%
Power supply	12-36V(24V standard)	Thermal Zero drift (%FS) *	±1.0%
Accuracy (Combined Non-linearity, Hysteresis and Non-repeatability) %FS	0.5%(Typical)	Pressure reference	Absolute /Vent Gauge/ Seal Gauge
Pressure Range(Mh2o)	0...1...200	Thermal Span drift (%FS) *	±1.0%
Long term stability	±0.25%FS(annual)	Response (ms)	≤1
Over pressure	3X Full Range	Insulation	Min1MΩ @250VDC&25°C
Burst pressure	4X Full Range or 20kpsi which is less	Weight	1200g Max.
Life	>10 ⁷ Full Range Pressure	Input Voltage / Output	See below code description
Over pressure	3X Full Range		

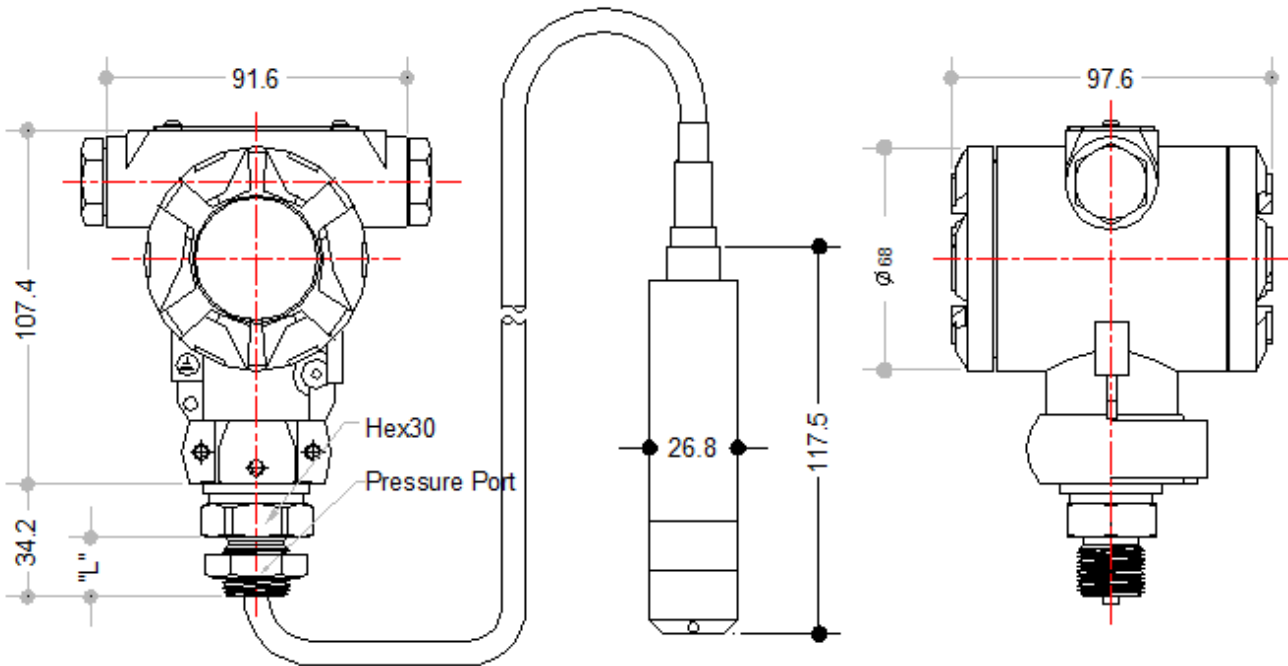
- Thermal drift refer to 25°C output

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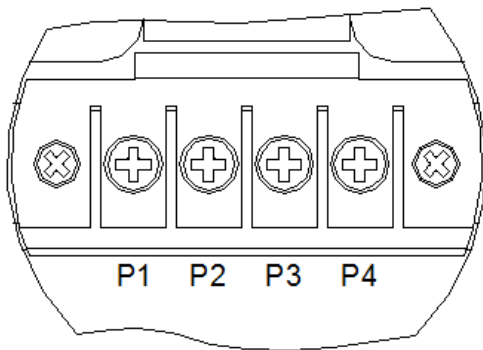
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HPT-34 pressure transducer model code							
Model	Description						
HPT-34	Split Submersible transmitter						
	Range/Code	Pressure unit					
	0-X K	Kpa					
	0-X S	PSI					
	0-X m	Mh2o					
		Code	Output Signal				
		E	4-20mA two wire				
		W	0-20mA three wire				
		Z	Customized				
			Code	Accuracy(%FS)			
			J2	0.25			
			J3	0.5			
				Code	I/O Outlet		
				B3	4 cores capillary cable (3M)		
				X	Customized		
					Code	Pressure reference	
					G	Vent Gauge	
					A	Absolute	
						Code	others
						M1	LCD
						M2	Without display
Example:							
HPT-34	10K	E	J2	X	G	M1	
HPT-34	10Kpa	4-20mA	0.25%	Customized	Gauge	LCD	
Model Choose:HPT-33-10Kpa -EJ2XGM1							

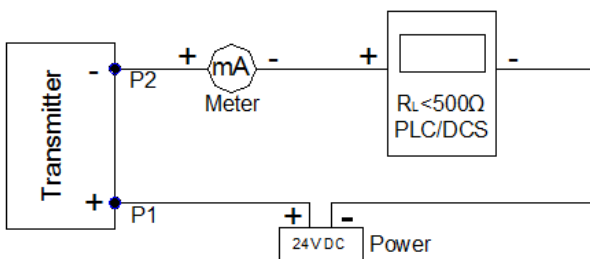
Outline Drawing:



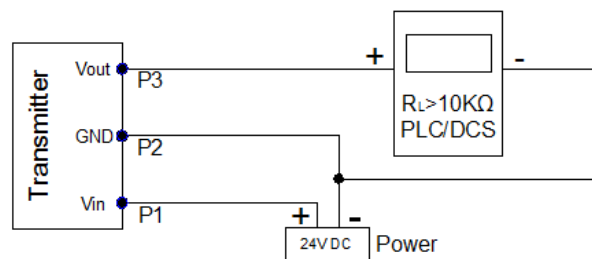
Electric Circuit:



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



Output: 4-20mA



Output: 1-5V