

# HuaTian

HPT-33

## Instruction:

HPT-33 is the full stainless steel construction and full-sealed submersible intelligent level transmitter with high accuracy. It uses highly reliable and stable pressure sensor, intelligent processing circuit, precise digital temperature compensation and linearity correction techniques for production. The top steel cap could protect sensor diaphragm and let liquid media go through unobstructed. The cable which has vented tube in connects with housing sealed, making sensor connecting to the atmosphere to make sure measurement precise. Integrated construction and standard output signal could provide easy operation and good automatic control. With 2-wire working, compact size, light weight and easy installation and operation.

## Features:

- Full stainless steel construction, compact size, light weight
- 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

Thermal drift refer to 25°C output

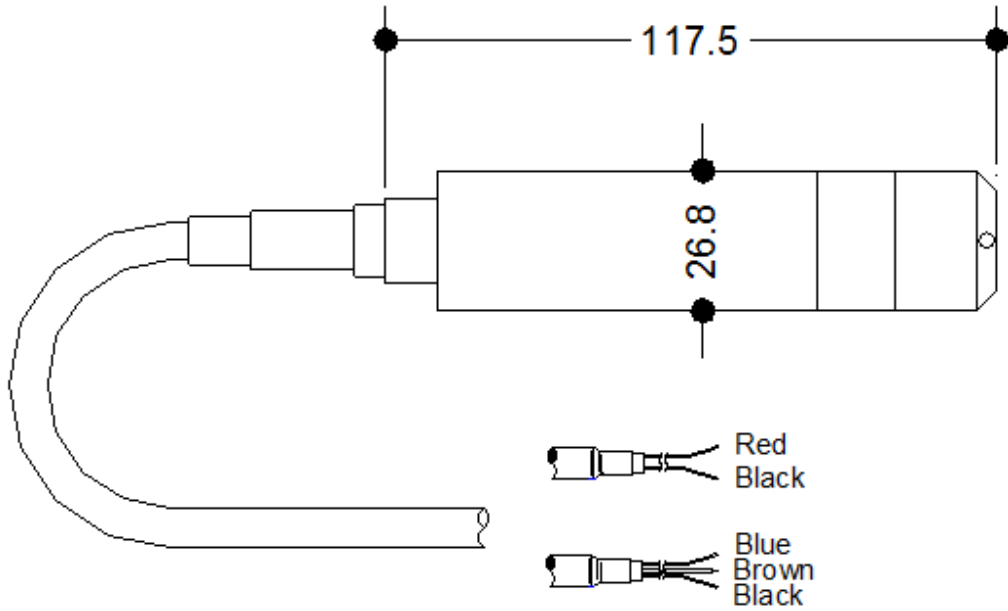
Sensor Type	Piezoresistive	Operable Temp. (°C)	-20~85°C
Wetted parts	316L Stainless steel	Compensation Temp (°C)	0-60°C
Housing	304 Stainless steel	Storage Temp (°C)	-20°C...85°C
Sealing method	O-ring	Long term stability	±0.10%FS(annual)
Power supply	12-36V (24V standard)	Zero error (%FS)	±0.5%
Response time	<1ms	Full range error (%FS)	±0.5%
Protection grade	IP68	Thermal Zero drift (%FS) *	±1.0%
Accuracy (Combined Non-linearity, Hysteresis and Non-repeatability) %FS	0.5%(Typical)	Thermal Span drift (%FS) *	±1.0%
		Pressure reference	Absolute /Vent Gauge/ Seal Gauge
Pressure Range(Mh2o)	0...1...200	Input Voltage / Output	See below code description
Burst pressure	4X Full Range or 20kpsi which is less	Over pressure	3X Full Range
		Insulation	Min1MΩ @250VDC&25°C
Life	>10 <sup>7</sup> Full Range Pressure	Noise	< 2m VRMS
Shock	100g, 11msec	Weight	150g Max.

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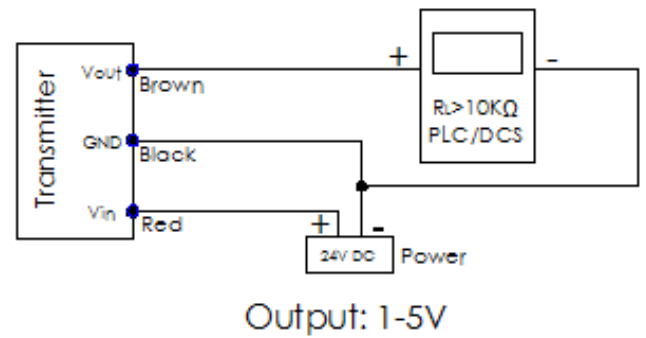
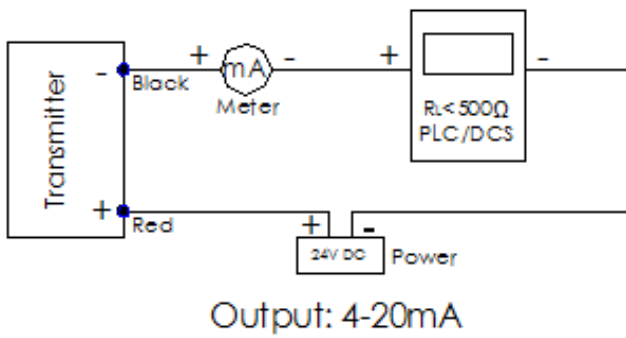
HPT-33

HPT-33 pressure transducer model code							
Model	Description						
HPT-33	Submersible transmitter						
	Range/Code	Pressure unit					
	0-X P	Pa					
	0-X K	Kpa					
	0-X S	PSI					
	0-X m	Mh2o					
		Code	Output Signal				
		E	4-20mA two wire				
		W	0.5-4.5V				
		Z	Customized				
			Code	Accuracy(%FS)			
			J2	0.25			
			J3	0.5			
				Code	I/O Outlet		
				B3	Direct cable (3M PVC)		
				X	Customized		
					Code	Pressure reference	
					G	Vent Gauge	
					A	Absolute	
Example:							
HPT-33	10K	E	J2	X	G		
HPT-33	10Kpa	4-20mA	0.25%	Customized	Gauge		
Model Choose:HPT-33-10K-EJ2XG							

**Outline Construction (Unit:mm)**



**Electric Circuit:**



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