

ESL040T Temperature and Liquid Level Transmitter

- ✓ Pressure type: GP/ SG
- ✓ Range: 0~3...200mH2O
- ✓ Accuracy: $\pm 0.5\%$ F.S (pressure and temperature included)
- ✓ Stability: 0.1%F.S/Year(typical), 0.2%F.S/Year(maximum)
- ✓ Operating temperature: -40°C~85°C
- ✓ Signal Output: 4~20mA, 1~5V, 0.5~4.5 V
- ✓ Power supply: 8/10~30V, 5V(Ratio)
- ✓ Diffused silicon-oil fill system
- ✓ Ingress Protection: IP68
- ✓ OEM: Available



Applications

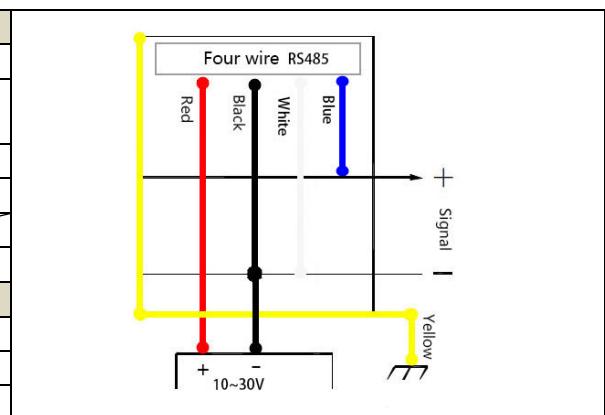
Hydrologic monitoring | Constant pressure water supply | Tailwater elevation | Wastewater treatment | Frequency water supply | Metallurgy&Chemical industry

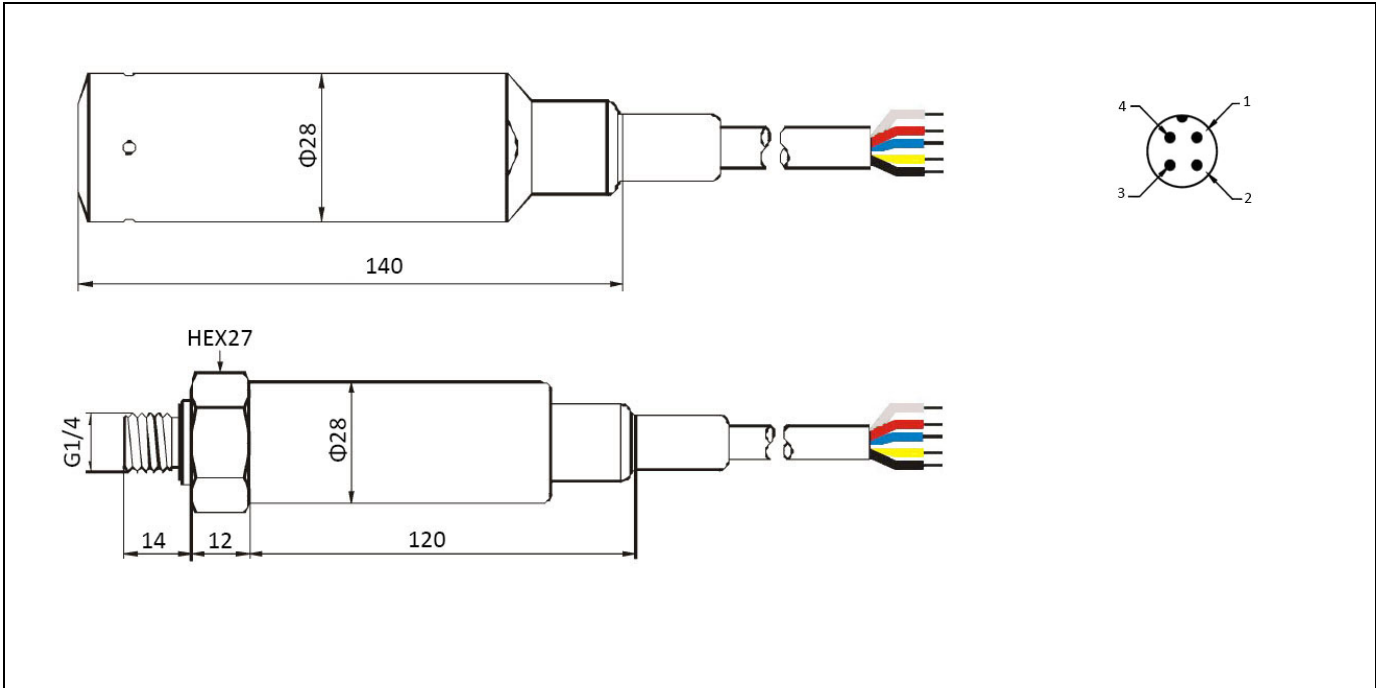
Product Introduction

ESL040T line is the transmitter applicable for measuring the temperature and pressure at the same time. Featuring high reliability, stability and accuracy, the product is widely used for the measurements of gas and liquid, such as water, oil and light corrosive liquid and gas. This product line adopts 1Cr18Ni9Ti stainless steel construction, diffused silicon-based sensor of international brands, and the specially designed V/I converting circuit. It is easy to perform zero/span trim. Based on the locations, different high-strength breathable cables featuring wear-proof, acid/alkali resistance and oil resistance can be configured.

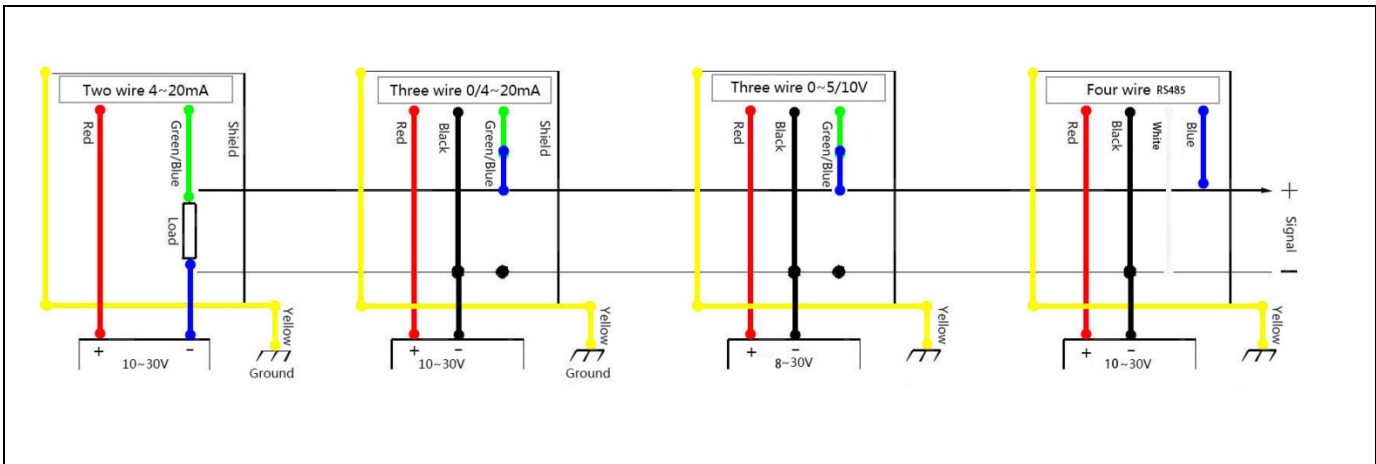
Electrical Connections and Dimensional drawings

Electrical connection				
Cable	Two wire	Three wire	Cable	Four wire
Red	Power Supply	Power Supply	Red	Power Supply
Blue/Green	Output	Output	Blue/Green	RS485+
Black	Shield	GND	Black	GND
Yellow		Shield	Yellow	
			White	RS485
Signal output				
Two wire	4~20mA			
Three wire	1~5V, 0.5~4.5V			
Four wire	RS485			





Electrical Wiring



Specifications

Measuring Range	0~3...200mH2O		Medium compatibility	All 1Cr18Ni9Ti-compatible corrosive mediums
Overload Pressure	1.5 times of rated pressure		Insulation	>100MΩ@50V
Burst Pressure	3 times of rated pressure		Electric Strength	500V@60second
Accuracy	±0.5%F.S (pressure and temperature included)		Response time:	10ms
Stability	0.1%F.S/Y, 0.2%F.S/Ymax		Pressure	M20 x 1.5, G1/4, G1/2, R1/4, NPT1/2
Working temperature	-40~85°C		Pressure type	gage pressure (G), seal gage pressure(S)
Compensation temperature	-10~70°C		Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2; Electromagnetic Sensitivity: EN50082-2
Electrical parameters	Two wire	Three wire		
Output Signal	4~20mA	1~5Vdc	0.5~4.5Vdc	RS485
Power supply	10~30Vdc	8~30Vdc	5V (Ratio)	10~30Vdc
Load resistance	(U-10)/0.02(Ω)	>100kΩ		
Electrical Connections	Waterproof wire jacket + Rectangular seals + O-rings + Sealant + Glues pouring (Ingress Protection IP68)			
1mH2O≈9.81KPa				

Ordering Procedure

EST	Integral Temperature Liquid Level Transmitter									
	Code	Model								
	040T	Universal								
		Cod	Span							
		1	0~3...200mH2O							
			Code	Output Type						
			A	4~20mA						
			V1	1~5Vdc						
			V05	0.5~4.5Vdc						
			RS	RS485						
				Code	Power Supply					
				DC5	5Vdc					
				DC10	10~30 Vdc					
				DC8	8~30 Vdc					
				Code	Pressure connections					
				M	M20 x 1.5					
				G	G1/4					
				G2	G1/2					
				R2	R1/2					
				N2	NPT1/2					
				Code	Electrical Connections					
				C	Wire jacket connection					
				Code	Cable length XXm=... m					
					Code	Packing				
					Bb	Bubble bag				
					Foam	Plastics foam				
EST	040T	1	A	DC5	M	C	1.5m	Bb		