ESL040 Universal Liquid Level Transmitter

- √ Pressure type: Gauge Pressure
- ✓ Range: From0~1...300mH2O
- ✓ Accuracy: ±0.25%F.S, ±0.5%F.S, ±1.0%F.S
- ✓ Stability: 0.25%F.S/Year(typical), 0.5%F.S/Year(maximum)
- ✓ Customized working temperature: -40°C~125°C
- ✓ Signal Output:4~20mA, 0/1~5V, 0~10V, RS485, I2C
- √ Power supply: 8/10/11~30V
- ✓ Diffused silicon-oil fill system
- ✓ Lightening protection
- ✓ Degrees of Protection: IP68



Applications

ESL040 GID-0-EV05

Deep water level monitoring | River hydrologic monitoring| Wastewater treatment | Turbidity level measurement | Liquid level of storage tank | Water-saving irrigation | Diversion Project | Circulating fluid consumption monitoring

Product Introduction

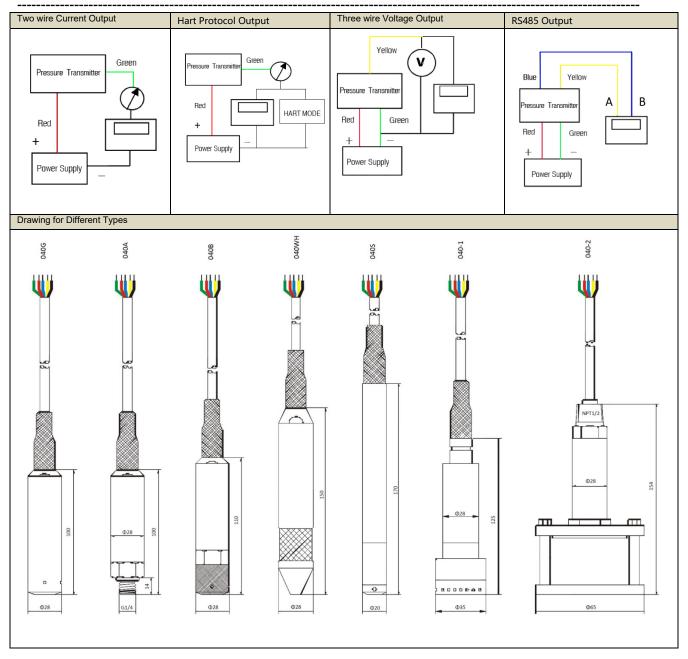
ESL040 line is for the measurement of liquid levels. Featuring high accuracy and stability, and high-strength cables that are wear-proof, acid/alkali resistant and oil resistant, this product can meet various demands for field measurement of liquid levels. The ESL040 line is designed with special construction and for particularly challenging applications. It is widely used for the treatment of wastewater and river water, and for hydrologic monitoring in ditches, reservoirs, rivers, coast and etc. non-polarized two-wire output and DC-AC three-wire output.

Electrical Connections and Dimensional Drawings

Electrical con	nection				
Cable	Two wire	Three wire	GX16-7	Two wire 4~20mA	Three wire 0~5/10V
Red	Power Supply	Power Supply	1	Shield Green/Blue	Shield Green/Blue Black Red
Blue/Green	Output	Output	2	/Blue	/Blue
Black		GND	3	Load	
Yellow	Shield	Shield	4	ā. J.	
Signal output		·			4
Two wire	4~20mA			+ 10~30V	7 + - 6/11~30V
Three wire	0/1~5V, 0~10V			10~30V // Grou	nd 6/11~30V







Specifications

Measuring Range	0~1300mH2O (Customizable for 0~500mH2O)	Medium compatibility	All corrosive mediums compatible with 1Cr18Ni9Ti and 316L
Overload pressure	1.5 times of rated pressure	Insulation	>100MΩ@50V
Burst Pressure	3 times of rated pressure ±0.5/55°C; Note temperature effect error is doubled at range 3; the error for analog model is doubled	Electric Strength	500V@1second





ESL040 GID-0-EV05

Accuracy: $\pm 0.25\%$ F.S; $\pm 0.5\%$ F.S; $\pm 1.0\%$ F.S Lightening Air-conduction pressure: 8000V, Shell & cable conduction pressure: 4000V protection Response time: Stability 0.1%F.S/Y, 0.2%F.S/Yma 10ms Working -40~85℃, (-40~125°C Customize) Safety Level Intrinsically Safe E; Explosion-proof D temperature Electromagnetic radiation: EN50081-1/-2 Compensation -10∼70℃, (Customizable for full temperature Electromagnetic temperature compatibility Electromagnetic Sensitivity: EN50082-2 range) Electrical Two wire Three wire

parameters 1~5Vdc 0~5Vdc 0~10Vdc RS485 I2C Output Signal 4~20mA Power supply 10~30Vdc 8~30Vdc/ac 11~30Vdc/ac 5-30Vdc 3.3-5Vdc >100kΩ Load $(U-10)/0.02(\Omega)$ resistance Waterproof wire jacket + Rectangular seals + O-rings + Sealant + Glues pouring (Ingress Protection IP68) Electrical Connections Pressure Immersed; G1/4

1mH2O≈9.81KPa

connection

Ordering Procedure

ESL	Universal L	iquid Le	vel Transm	nitter					
	Code	Model							
	040G	Universal							
	040E	Intrinsically safe and Explosion-proof							
	040L	Lighte	ning proted	ction					
	040A	Thread	d-mounting	1					
	040B	Immer	sed and T	hread-mour	nting				
	040WH	Anti-se	ediment						
	043S	Small Diameter							
	040-1	Anti-po	ollution						
	040-2	High density							
	Code Span								
		_1		0mH2O;					
	2			2 0~35MH2O					
			0~50MH2O						
			Code	Output 7	Гуре				
			Α	4~20mA					
			V/V1	0/1~5Vd					
			V2	0~10Vd	С				
			RS	RS485					
			IIC	I2C					
				Code	Precision				
				0.25 \pm 0.25%F.S					
				0.5	±0.5%F.				
				1.0	±1.0%F.				
					Code	Power Supply			
					DC24	24 Vdc			
					DC11	3.3~30 Vdc			
						Code Pressure connections			
						Immersed			
						G G1/4			
						Code Cable length XXm= m			
						Code Packing			
						Bb Bubble baq			
FOL	0400			0.5	D004	Foam Plastics foam			
ESL	040G	11	A	0.5	DC24	I 1.5m Bb			