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
- ✓ Power supply: 8/10/11~30V
- ✓ Diffused silicon-oil fill system
- ✓ Lightening protection
- ✓ Degrees of Protection: IP68



Applications

ESL040 GID-0-EV03

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

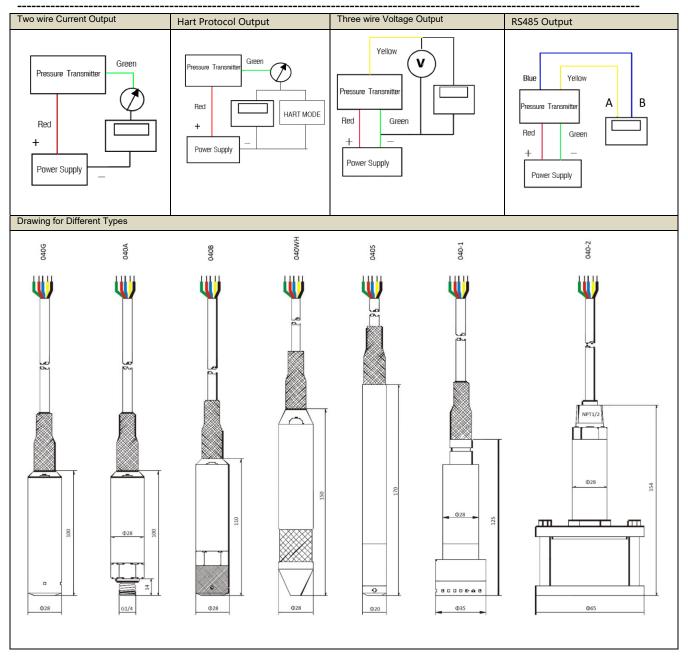
ESL040 line is for the measurement of liquid levels. Featuring high accuracy and stability, and high-strength cables that are wear-proof, acid/alkali resistant and oil resistant, this product can meet various demands for field measurement of liquid levels. The ESL040 line is designed with special construction 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

Two wire		1			
	Three wire	GX16-7	Two wire 4~20mA		Three wire 0~5/10\
Power Supply	Power Supply	1	Green	Shield	Green/Blue Black
Output	Output	2	/Blue		/Blue
	GND	3			
Shield	Shield	4			
					H,
4~20mA			T + -	ellow	+ - 6/11~30V
0/1~5V, 0~10V			10~30V	Ground	6/11~30V
	Output Shield 4~20mA	Output Output GND Shield Shield 4~20mA	Output	Output 2 GND 3 Shield Shield 4	GND 3 Shield Shield 4 4~20mA







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-EV03

Accuracy:	±0.25%F.S; ±0.5%	%F.S; ±1.0%F.S	Lightening protection	Air-conduction pressure : 8000V, Shell & cable conduction pressure: 4000V		
Stability	0.1%F.S/Y, 0.2%F.	S/Yma	Response time:	10ms		
Working temperature	-40∼85℃, (-40∼12	25°C Customize)	Safety Level	Intrinsically Safe E; Explosion-proof D		
Compensation temperature	-10∼70℃, (Custon range)	nizable for full temperature	Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2 Electromagnetic Sensitivity: EN50082-2		
Electrical parameters	Two wire	Three wire				
Output Signal	4~20mA	0~5Vdc	1~5Vdc	0~10Vdc	RS485	
Power supply	10~30Vdc	8~30Vdc/s	ac	11~30Vdc/ac		
Load resistance	(U-10)/0.02(Ω)	>100kΩ				
Electrical Connections	Waterproof wire jacket + Rectangular seals + O-rings + Sealant + Glues pouring (Ingress Protection IP68)					
Pressure connection	Immersed; G1/4					
1mH2O≈9.81K	Pa					

Ordering Procedure

ESL	Universal L	iquid Le	vel Transmi	tter		
	Code	Model				
	040G	Unive	Universal			
	040E	Intrins	Intrinsically safe and Explosion-proof			
	040L	Lighte	Lightening protection			
	040A	Threa	Thread-mounting Thread-mounting			
	040B	Immer	Immersed and Thread-mounting			
	040WH	Anti-se	Anti-sediment			
	043S		Small Diameter			
	040-1		Anti-pollution Anti-pollution			
	040-2		High density			
		Code				
		1	0~1300			
		2	0~35MF			
		3	0~50MF		-	
			Code	Output		
			A V/V1	4~20mA 0/1~5Vd		
			V/V I V2	0~10Vd		
			RS	RS485	C	
			I KO	Code	Precision	
				0.25	±0.25%F	
				0.25	±0.5%F.	
				1.0	±1.0%F.	
					Code	Power Supply
					DC24	24 Vdc
					DC11	11~30 Vdc
						Code Pressure connections
						I Immersed
						G G1/4
						Code Cable length XXm= m
						Code Packing
						Bb Bubble bag
						Foam Plastics foam
ESL	040G	1	Α	0.25	DC24	I 1.5m Bb