ESL042 Geothermal Water Liquid Level Transmitter

- ✓ Pressure type: Gauge Pressure
- ✓ Range: From0~1...500mH2O
- ✓ Accuracy: ±0.25%F.S, ±0.5%F.S
- ✓ Stability0.15%F.S/Year(typical), 0.25%F.S/Year(maximum)
- ✓ Customized working temperature: -20°C~120°C
- ✓ Signal Output:4~20mA, 0/1~5V, 0~10V
- ✓ Power supply: 10/11~30V, 8~24V
- ✓ Diffused silicon-oil fill system
- ✓ Ingress Protection: IP68
- ✓ OEM: Available



Applications

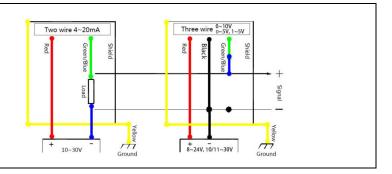
Geothermal water measurement | Geothermal water intaking | Cooling water detection of thermal power plant | Thermal boiler | Hydrology detection | Power units | Hydropower

Product Introduction

ESL042 line is heat-resistant liquid level transmitter. Featuring high reliability, stability and accuracy, the product is mainly used for the measurement of high-temperature liquid. This product line adopts 1Cr18Ni9Ti stainless steel construction, active sensing element 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. Non-polarized two-wire output and DC-AC three-wire output available.

Electrical Connections and Dimensional drawings

Electrical connection							
Cable	Two wire	Three wire	GX16-7				
Red	Power Supply	Power Supply	1				
Blue/Green	Output	Output	2				
Black	Shield	GND	3				
Yellow		Shield	4				
Signal output							
Two wire	4~20mA						
Three wire	0/1~5V, 0~10V						





Application-based Classification

Type A Used where the receiving instrument is close
Type B Used where the receiving instrument is far away

Type C Used when the installation occurs at the mouth of the well

Specifications

Measuring	0~1500mH2O		Insulation	>100MΩ@50V				
Range								
Overload	1.5 times of rated	pressure	Electric	500V@60second				
pressure			Strength					
Burst	3 times of rated p	ressure	Lightening	Withstand Voltage in Air: 8000V, Withstand				
Pressure	-		protection	Voltage of Housing and Cable: 4000V				
Accuracy	\pm 0.25%F.S; \pm 0.	5%F.S (choose air line	Response time	10ms				
	for higher accurac	cy)						
Stability	0.15%F.S/Y, 0.25	%F.S/Ymax	Vibration/Shock	10g/5~2000Hz, axes X/Y/Z20g sine 11ms;				
Working	-20~100°C, (-20°	~120°C Customize)	Safety Level	Intrinsically Safe E; Explosion-proof D;				
temperature	•	•						
Compensation	-10~70°C: (Custo	omizable within full	Electromagnetic	Electromagnetic radiation: EN50081-1/-2;				
temperature	temperature rang		compatibility	Electromagnetic Sensitivity: EN50082-2				
Medium		iums compatible with						
compatibility	1Cr18Ni9Ti and 3	16L						
Electrical	Two wire	Three wire						
parameters								
Output Signal	4~20mA	0~5Vdc	1~5Vdc	0~10Vdc				
Power supply	10~30Vdc	8~24Vd	c/ac	11~30Vdc/ac				
Load	(U-10)/0.02(Ω)	>100kΩ						
resistance	,							
Electrical	Waterproof wire jacket + Rectangular seals + O-rings + Sealant + Glues pouring (Ingress Protection IP68)							
Connections	· · · · · · · · · · · · · · · · · · ·							
Pressure	Immersed; Split							
connection								



1mH2O≈9.81KPa

Ordering Procedure

EST	Geotherm	nal Wat	er Tran	smitter							
	Code	Mode	Model								
	042G		Universal								
	042E		Intrinsically safe and explosion-proof								
	042D		Explosion-proof								
	042A		Outdoor wiring split Model								
	042B				lit Model						
		Cod	Spar		_						
				500mH							
			Code		tput Type	9					
			A V		20mA						
			V V1		Vdc						
			V2		5Vdc 10Vdc						
			V Z	Co		ecision					
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				$egin{array}{ c c c c c c c c c c c c c c c c c c c$							
				0.0			Power Sup	plv			
							24 Vdc	۳۰)			
							11~30 Vdc				
								ressure c	onnec	tions	
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						5	S S	olit			
							C	ode C	Cable I	ength X	Xm= m
								C	Code	Packir	
										Bb	Bubble bag
										Foa	Plastics foam
EST	042A		1	Α	0.25	DC24	4 S	1.5	m	Bb	