

ESL046 Marine Titanium Alloy Liquid Level Transmitter

- ✓ Pressure type: Gauge/Absolute Pressure
- ✓ Microbial corrosion resistant
- ✓ Special for seawater
- ✓ Cables of heat-resistance and strong acid/alkali resistance
- ✓ Range: 0~1...100mH2O/-1bar~0~100bar
- ✓ Accuracy $\pm 0.5\%$ F.S (No accuracy losing in full temperature range)
- ✓ Stability: 0.25%F.S/Year
- ✓ Operating temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- ✓ Signal output: 4~20mA
- ✓ Power supply: 10~36V
- ✓ Oil fill system of titanium alloy
- ✓ Ingress Protection: IP68
- ✓ OEM: Available



Applications

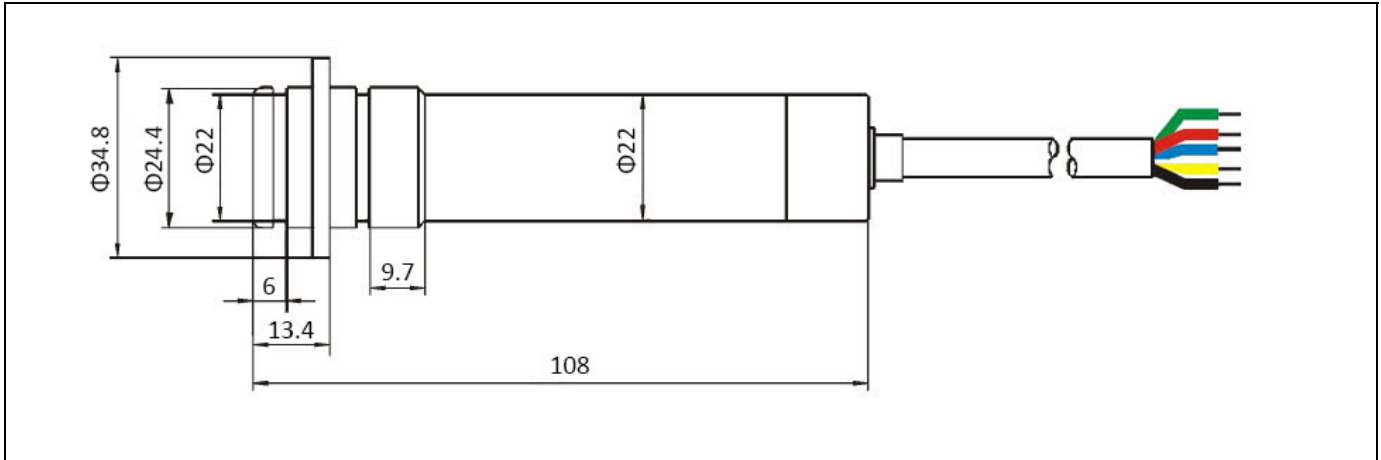
Seawater measurement | Ship draft measurement | Water level of seaport wharf | Height measurement of bridge over the sea | Corrosive mediums

Product Introduction

ESL046 line is liquid level transmitter specially designed for the seawater-related measurements. The product line is highly reliable and stable, and enables digital compensation within full temperature range. The ESL046 line adopts titanium alloy construction to the oil fill system and housing, the latest digital compensation technology to ensure no losing of accuracy within the full temperature range, and enables zero/span trim through computer interface and external program-controlled zero/span adjustments. 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	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, 0/4~20mA		



Specifications

Measuring Range	0~1...100mH2O/-1bar~0~100bar;		Compensation temperature	-20~70°C
Overload pressure	2 times of rated pressure		Insulation	>100M Ω @50V
Burst Pressure	4 times of rated pressure		Medium compatibility	Seawater of any region
Accuracy	±0.5%F.S		Ingress Protection	IP68
Stability	0.25%F.S/Y		Pressure type	GP (G), AP(A)
Working temperature	-20~70°C		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
Power supply	10~36Vdc	6~24Vdc/ac		11~30Vdc/ac
Load resistance	(U-10)/0.02(Ω)	>100k Ω		

1mH2O≈9.81KPa

