ESL044/45 High-corrosiveness Resistant Liquid Level Transmitter

- ✓ Pressure type: Gauge Pressure
- √ High-corrosiveness resistant liquid level transmitter
- ✓ SS316 Stainless Steel Housing

ESL044/5 GID-0-EV03.0

- Titanium Alloy + PTFE (Teflon) Composite Housing
- ✓ Range: 0~0.5...50m waterspout (Customize small range)
- ✓ 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: -20°C~120°C
- ✓ Output: 4~20mA, 0/1~5V, 0~10V
- ✓ Supply: 10/11~30V, 6~24V
- ✓ Ingress Protection: IP68
- ✓ OEM: Available



Applications

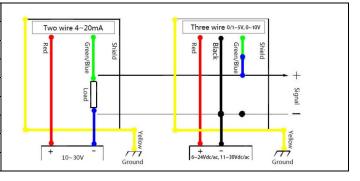
High-corrosiveness resistant liquid level measurements | Corrosive mediums | Chemistry experiments | High-temperature Site | Flammable mediums | Explosion-proof site

Product Introduction

ESL044/45 line is liquid level transmitter of high accuracy, reliability and stability. With the sensing element of ceramics, the product is used for the measurements of corrosive liquid and gas. This product line features the housing of titanium alloy and Teflon, ceramics sensing element of international brands, and the specially designed V/I converting amplifier 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.

Electrical Connections and Dimensional drawings

Electrical connection									
Cable	Two wire	Three wire	GX16-7						
Red	Power	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								





Note: Install the transmitter in a straight, stable section of the pipeline or use a snubber/pulsation dampener to absorb shocks. Mount the transmitter 10-20 cm above the bottom or use a **still pipe** (standpipe) to isolate it from turbulence and sediment. Φ44 Φ60 EST045 Sensor-based Classification ESL044 Ceramic capacitive sensor with SS316 housing for weak causticity medium and <1m H2O measurement. ESL045 Ceramic capacitive sensor with titanium alloy & Teflon housing for strong causticity medium and >1m H2O Note To measure the level of dynamic liquid, mount the transmitter to the location free from pressure shock. 1. To measure the level of turbid liquid, keep the transmitter away from the bottom of the vessel

Specifications

>100MΩ@50V									
500V@60second									
000V, Withstand ble: 4000V									
20g sine 11ms									
sion-proof D;									
EN50081-1/-2; : EN50082-2									
1~30Vdc/ac									
Waterproof wire jacket + Rectangular seals + O-rings + Sealant + Glues pouring (Ingress Protection IP68)									
ot:									



Ordering Procedure

EST	High-	-corrc	sive	ness	resis	tant liqu	id lev	el tra	nsmi	ter						
	Code		Model													
	044	S	SS316 housing for weak causticity													
	045	Ti	Titanium Alloy & Teflon housing for strong causticity													
		C	Code Span													
		0		0~0.51m												
		1				50m										
					de	Output		9								
				Α		4~20m										
				V		0~5Vd										
				V1		1~5Vd										
				V2		0~10V			_							
						Code	_	cisio								
						0.25 ±0.25%F.S										
						0.5 ±0.5%F.S										
						1.0	1.0 ±1.0%F.S Code Power Supply									
							DC24 24 Vdc									
							DC11 11~30 Vdc									
								Code Working Temperature								
									A $-20 \sim 80^{\circ}\text{C} (-10 \sim 70^{\circ}\text{C compensation})$						on)	
									Н			\sim 120				
								_			Co			e conne	ctions	
											Т		Immerse	ed		
											S		Split			
													Code			Xm= m
														Code	Packin	
															Bb	Bubble bag
															Foa	Plastics foam
ESL	044		1	A		0.25	D	C24	Α	١	I		1.5m	Bb		