

# ESL048 Digital Liquid Level Transmitter

- ✓ Pressure type: Gauge/Seal gauge Pressure
- ✓ Signal output: RS485 digital output
- ✓ Range: 0~2...200mH2O
- ✓ Accuracy:  $\pm 0.5\%$ F.S
- ✓ Stability:  $\pm 0.2\%$ F.S/Year
- ✓ Operating temperature:  $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- ✓ Power supply: 10~30V
- ✓ Diffused silicon/Piezoresistive ceramic sensor
- ✓ OEM: Available



## Applications

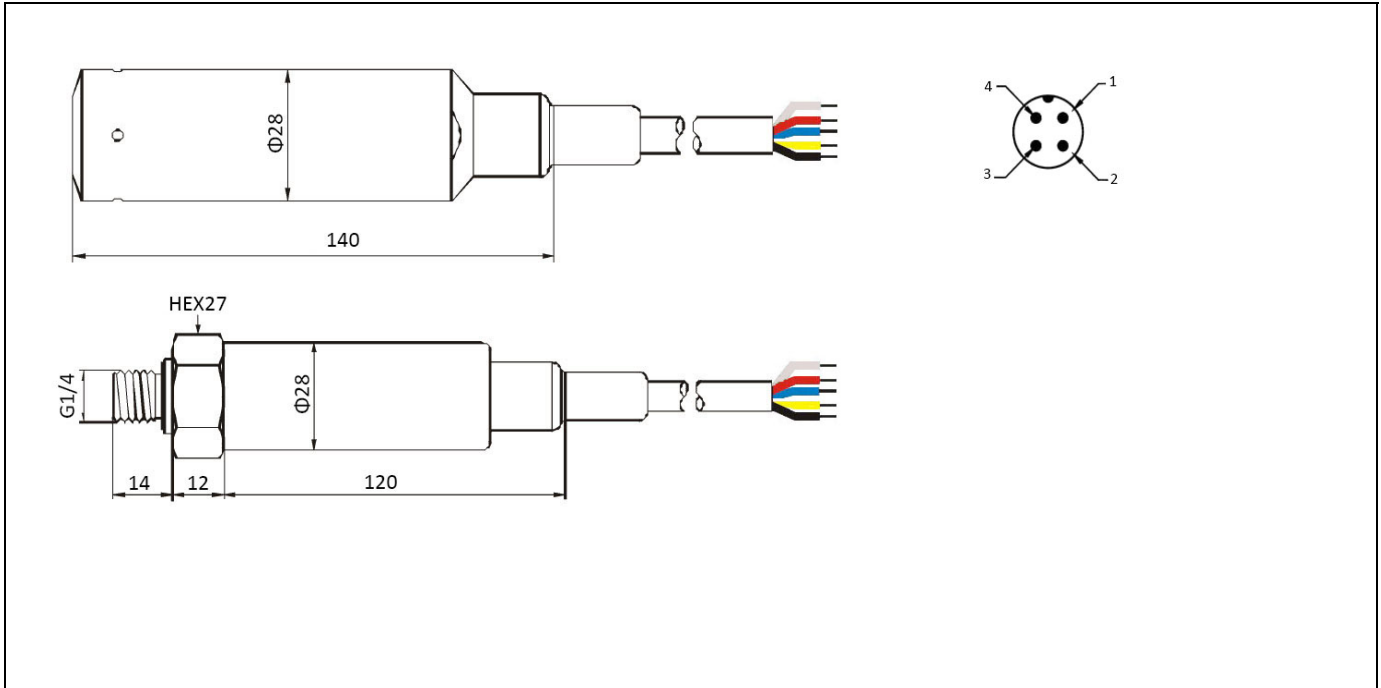
Hydrologic monitoring | Constant pressure water supply | Tailwater elevation | Wastewater treatment | Water-saving irrigation | Diversion Project | Metallurgy&Chemical industry

## Product Introduction

ESL048 line is liquid level transmitter, featuring high reliability, stability and accuracy, and RS485 digital output. The product is widely used for the measurements of gas and liquid, such as water, oil and light corrosive liquids. This product line adopts 1Cr18Ni9Ti stainless steel construction and multiple pressure connections.

## Electrical Connections and Dimensional drawings

Electrical connection				
Cable	Two wire	Three wire	Cable	Four wire
Red	Power Supply	Power Supply	Red	Power Supply
Blue/Green	Output	Output	Blue/Gre	RS485+
Black	Shield	GND	Black	GND
Yellow		Shield	Yellow	
			White	RS485
Signal output				
Four wire	RS485			



## Specifications

Measuring Range	0~2...200mH2O	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	Electrical Connections	Waterproof wire jacket
Accuracy	±0.5%F.S	Pressure connection	M20 x 1.5, G1/4, G1/2, R1/2, NPT1/2
Stability	0.25%F.S/Y	Ingress Protection	IP68
Working temperature	-40~85°C	Pressure type	gage pressure (G), seal gage pressure(S)
Output Signal	RS485	Response time	10ms
Power supply	10~30Vdc	Electromagnetic compatibility	Electromagnetic radiation: EN50081-1/-2 Electromagnetic Sensitivity: EN50082-2

1mH2O≈9.81KPa