

Gear Type Liquid Level Transmitter

Model : SGL



Introduction

This is designed to measure the level of liquid such as water, diesel oil, bunker-C, etc. by using the buoyancy of float and spring force. When the float rises and falls, the gear mechanism connected to float through spring works to display the level on the front scale and an analog signal is also produced.

Features

- Remote and local indications are available.
- Easy to carry and install.
- Compactness of this model permits installation in a cramped space where there is a limited headroom.

Principle

When the tank is filling or emptying, the float rises and falls until the float and wire weight becomes equal to liquid buoyancy plus spring force.

That is when the level rises, the spring is wound as the buoyancy increases and the load applied to wire decreases.

When the level falls, buoyancy decreases and the load applied to wire increases.

The front scale connected to float and wire through gear mechanism displays the level variation on the dial, and R/I converter outputs 4~20mA DC analog signal by using the built in potentiometer.



Calibration

- 1 To measure current, supply the power after connecting (1)"-" terminal of ST-600R to "+" terminal of a multi-meter, and (2) "-" terminal of multi-meter to "+" terminal of power supply.
- 2 Lower the float to 0% position, and make the multi-meter read 4mA DC by adjusting the ZERO adjustment knob.
- 8 Raise the float to 100% position, and make the multi-meter read 20mA DC by adjusting the SPAN adjustment knob.

Caution before the Installation

- Avoid high temperature and pressure tank (85°C Max.), high viscosity material and corrosive material.
- A chamber should be used if there is turbulence in tank.

Overall Dimensions



Specifications

DESCRIPTION	SGL-1	SGL-2	SGL-3
Measuring Material	Liquid /Oil		
Input Power	-	15 ~ 32V DC, 2-Wire Loop Type	
Output	Dial Display	4 ~ 20mA DC	Dial Display & 4 ~ 20mA DC
Loop Impedance	-	450 Ω (20V DC)	
Calibration	-	Zero & Span	
Accuracy	Vertical Float : ±20mm (Horizontal Float : ±10mm)		
Measuring Range	10 m (Max.)		
Specific Gravity	Float : 0.6, Measuring Medium : Min. 0.8		
Temp, for Main Body	-20 ~ +85℃	-20 ~ +60℃	
Temp, for Sensing Part	-20 ~ +85°C		
Operating Pressure	Atm.		
Float	Ø76.3-239H for 3" Vertical (Std.), Ø48.6-300(H) for 2" Vertical, Ø250-40H for Horizontal (Option)		
Construction	Weather proof		
Material	Body : Unburnable ABS, Flange : 304SS or 316SS, Wire : 316SS, Float : 304SS or 316SS		

Please contact Seojin Instech if you have a specific measuring medium

Ordering Information

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When placing an order, selected ordering number should be indicated on the purchase order sheet.



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