

TRANSMITTER WITH ANALOG OUTPUT



DGS-100A

Application

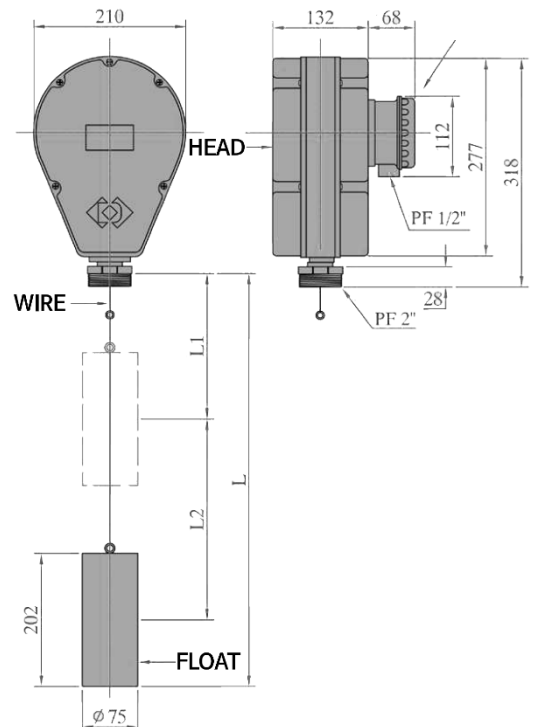
The buoyancy generated by the float operates the spring. And the gear connected to the spring moves to display the liquid level.

The way to transmit the electric current signal to the outside is sending a signal (4~20mA) by installing a potentiometer converter.

- It is easy to be installed in the tank without ceiling space.
- Both the site demanding and remote demanding are possible.
- It is able to use in chemical, industrial waste water, food/beverage tank, fuel tank, and etc.

Technical Data

- INDICATOR : Non-support
- INPUT POWER : DC 24V
- TEMPERATURE : A.M.B
- PRESSURE : A.T.M
- SIGNAL INPUT : Current Loop (4~20mA),
Voltage (1~5V), Ohm(Ω)
- IMPEDANCE : 450 Ohm (Use 24VDC)
- MATERIAL : Head - ABS
Flange - ABS
Socket - ABS
Wire- SUS316
Float - ABS



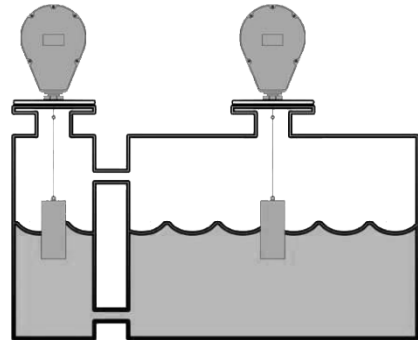
Installation

As shown in the picture, it is installed And using.

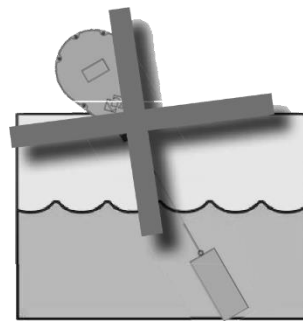
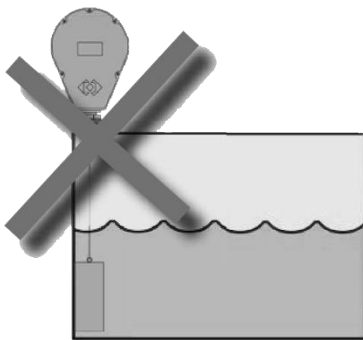
Check if the flanges specification match between Tank and product.

Insert a float and stem into the tank and make sure that it is installed vertically right.

Connect wiring between sensor contact terminals and controller.



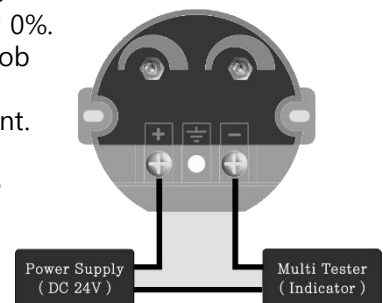
Installation Caution



As shown in the picture, when you install DGS Sensor, if the wire is bent or warped, it could be the cause of the malfunction of DGS sensor. Please note that when installing.

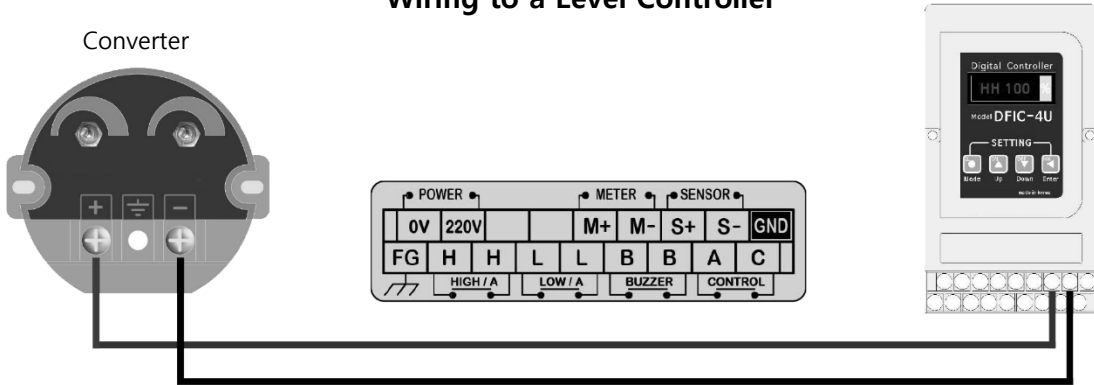
Calibration

1. When you provide DC 24V to the Converter and put the float to the bottom point, the indicator connected with the sensor show 0%.
2. If the value is out of the range of 0%, turn the ZERO volume knob on the converter to set as 0 point exactly.
3. After finishing ZERO adjustment, put the float up to the top point. Then, the indicator show 100%.
4. If the values is out of the range of 100%, turn the SPAN volume knob on the converter to set as 100 point exactly.
5. Repeat step 1~ 4 until if is exactly set, then install the sensor in the tank. When the entrance of the chamber is clogged with any stuff like sediment as shown in the picture, the level transmitter can not operate normally as well as the liquid level indicator. Be cautious not to get clogged in the chamber entrance.

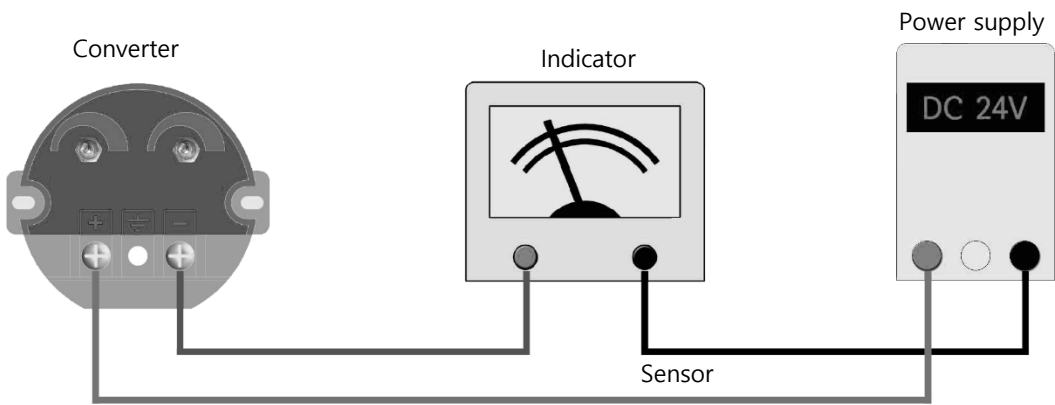


Wiring Diagram

Wiring to a Level Controller



Wiring to a two-wire loop indicator



Wiring to a two-wire loop indicator

