GL-136 Input level transmitter

Overview

The GL-136 input type liquid level transmitter was developed by introducing NOVO's advanced diffused silicon pressure sensor and IC SENSORS
circuit technology. It uses two world-class technologies: silicon etching process and silicon wafer superposition. A high quality static pressure level
measuring instrument. It is widely used in liquid level measurement in petroleum, chemical, metallurgy, environmental protection, food, water conservancy, urban water supply, oil field and other industries. The excellent
quality of the static pressure liquid level transmitter meets the needs of China's industrial automation and measurement automation of some industries for
high-precision liquid level detection instruments.

Characteristics

Good stability, high precision, high
performance/price ratio, direct input into the tested medium, easy to install
and use, solid structure, no moving parts, high reliability, long service life,
from water, oil to viscosity The paste can be measured with high precision, and
is not affected by the foaming, deposition and electrical properties of the
measured medium. It has no material fatigue and wear, and is

insensitive to
vibration and impact without polarity 4-20mA output.

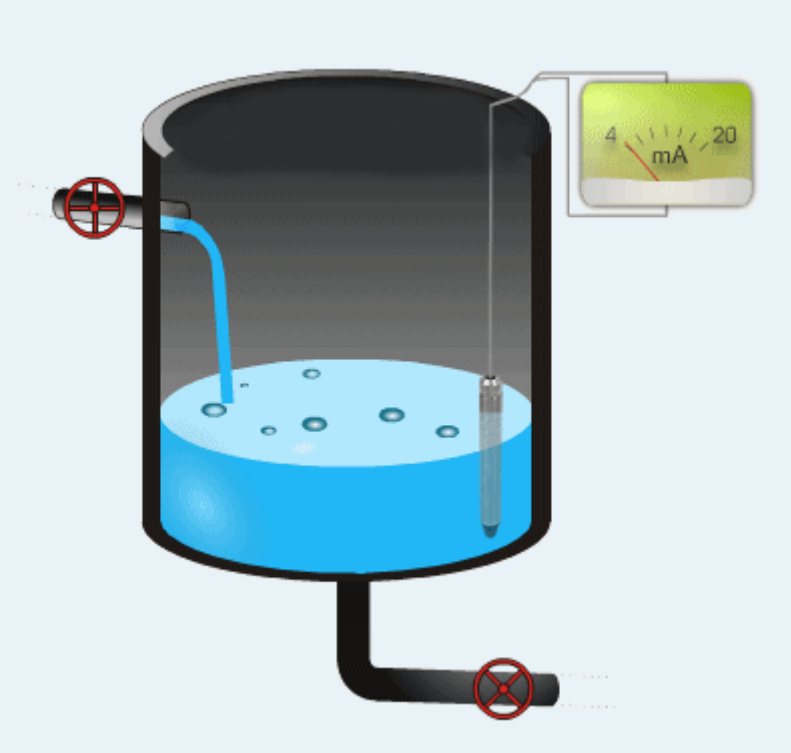
working principle

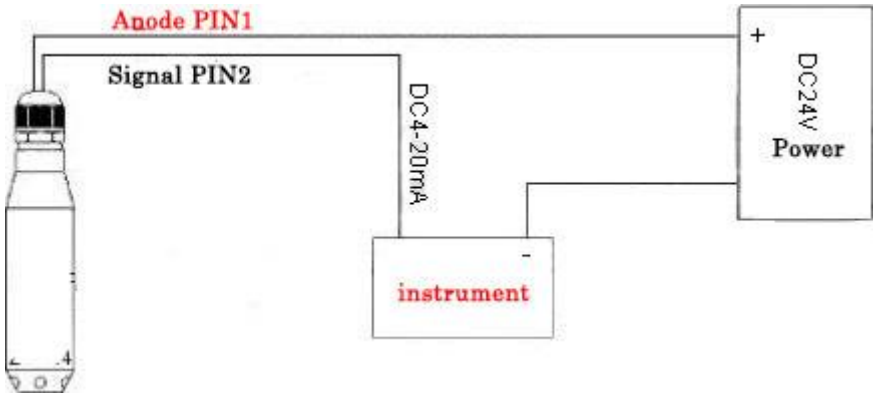
Static pressure measurement principle
When the liquid level transmitter is put
into a certain depth in the measured liquid, the pressure on the liquid-facing
surface of the sensor is $P=\rho.g.h+P0$

P: The pressure on the
liquid surface of the sensor unit:Pa
ρ: Measured liquid density unit:Kg/m^3
g: Local gravity acceleration unit:m/s^2
P0: Atmospheric pressure on the liquid surface
unit:Pa
H: Sensor input liquid unit:m

At the same time, the atmospheric pressure P0 on the liquid surface is introduced into the back pressure chamber of the sensor through the air guiding cable to offset the P0
of the liquid-facing surface of the sensor, so that the measured pressure of the sensor is $P=\rho.gh$. Obviously, by measuring the pressure P, The liquid level depth H is obtained. The pressure signal sensed by the sensor is amplified by the circuit, and is compensated and output as a standard signal.

Note: This model is used for liquid level measurement in open containers.





Technical parameters

1, measuring range: 0-40m

2, accuracy: 0.5% F.S

3, load: <500Ω

4, the use temperature: -20-85 ° C

5, humidity: ≤95% RH

6, overload capacity: twice the range

7, zero temperature drift: 0.03% FS / ° C (≤ 100KPa) 0.02% FS / ° C (> 100KPa)

Full temperature drift: 0.03% FS / ° C (≤ 100KPa) 0.02% FS / ° C (>

100KPa)

8, working voltage: 12-36VDC