

Liquid level transmitter

Instructions

The pressure sensitive core of liquid level transmitter adopts high-performance silicon piezoresistive pressure oil-filled core. The internal special integrated circuit converts the sensor millivolt signal into standard long-distance transmission current signal, which can be directly connected with computer interface card, control instrument, intelligent instrument or PLC. The series of products are widely used in industrial process control, petroleum, chemical, metallurgy and other industries.

1 Main technical parameters

(1) Operating temperature: $0^{\circ}\text{C} \sim 100^{\circ}\text{C}$;

(2) Basic error

(3) The accuracy grade of the transmitter is divided into:

0.1, the basic error is ± 0.1 ;

0.3, the basic error is ± 0.3 ;

Grade 0.5 level, the basic error is ± 0.5 (the basic error is expressed as a percentage of the range).

(4) Thermal zero drift

When the ambient temperature deviates from the temperature of the reference operating condition, the zero drift of the transmitter shall not be greater than $0.03\% \text{FS}/^{\circ}\text{C}$.

(5) Thermal sensitivity drift

When the ambient temperature deviates from the temperature of the reference operating condition, the full range drift of the transmitter shall not be greater than $0.03\% \text{FS}/^{\circ}\text{C}$.

(6) Insulation resistance

Under the reference working conditions, the insulation resistance between each terminal of the transmitter to the ground shall not be less than $20\text{M}\Omega / 250\text{V}$.

(7) Multi-level electrical protection.

2. Appearance and installation

The external structure is shown in Figure 1, liquid level transmitter (flexible line input type)

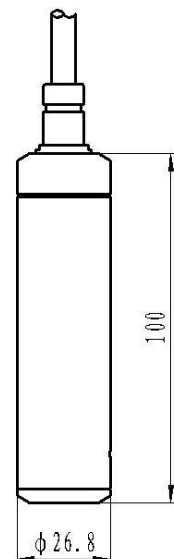
Electrical wiring:

red: power supply; Blue: Output

3. Installation method

(1) Choose a place that is easy to operate and maintain for installation;

(2) The installation should be as far away from the vibration source as possible;



- (3) Places away from heat sources as far as possible;
- (4) When the input level transmitter is installed, the metal probe should be sunk to the bottom of the container.

4 Precautions for safe use

- (1) The transmitter should be handled and installed with care to avoid collision and affect the performance of the circuit.
- (2) There is an isolation diaphragm inside the pressure inlet of the transmitter, do not touch it manually with foreign bodies.
- (3) Please strictly follow the wiring method for electrical connection, wiring error may cause damage to the amplifier circuit.
- (4) For the installation of the input liquid level transmitter, do not use wires to lift heavy objects other than the product.
- (5) The probe is cleaned regularly to avoid the blockage of the inlet pressure.
- (6) The wire is specially waterproof wire. Wear, puncture and scratch should be avoided during installation and use. If the above problems exist on site, protective measures should be taken for the wire. In case of failure caused by such problems, the manufacturer shall charge for wire maintenance.
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