

301 Hersman tuning fork level switch manual

Product Introduction:

ZPYC tuning fork level switch is a new type of level switch. The instrument is composed of a signal fork and an amplifier part. Two groups of piezoelectric crystals are pressed at the root of the fork. One group acts as a driver to drive the fork to produce vibration, and the other group acts as a detector to convert the fork into voltage signal. When the fork is blocked, the amplitude of the vibrator becomes smaller, the vibration frequency changes, and the relay outputs the switching signal. Thus, the object limit measurement is realized. The sensor is made of 316 stainless steel, which is resistant to mild corrosion and is used for limit controller and high/low alarm.

Typical applications:

● Tap water, mineral water ● Liquid that can produce gas ● Paper pulp, glue, dye ● Beer, beer starter, beverage
● Waste water, mud, acid and alkali solution ● Diesel oil and other dangerous places ● Solid powder with good fluidity

Unbox

Open the packing case carefully and remove the stuffing in the packing case. Carefully check every clause on the packing list, including instrument model, installation accessories, instructions, etc. If you find any out-of-stock, inconsistent with the packing list or damaged, please contact us immediately.

2. Check the instruction manual

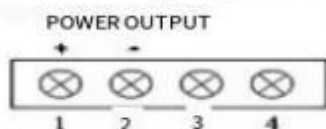
The manual includes the technical parameters of the instrument, installation and commissioning specifications, please read each content in the manual carefully, if you do not understand the content of the manual, you can call or fax the way to contact our company.

Three, technical parameters

- Power supply: 24VDC (standard); ● Ambient temperature: $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- Output mode: relay output (normally open or normally closed) ● Medium temperature: $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- Working pressure: less than 2MPa ● Medium density: minimum 0.6g/cm
- Delay time: 1 ~ 60s (optional) ● Case protection: IP66
- Power consumption: 0.5W ● Electrical interface: Hersman interface
- Process connection: NPT 1 "thread mounting (standard thread) flange mounting, other threads (optional)

4. Electrical connection

Electrical wiring diagram



- 1: Positive for power supply
- 2: indicates the power supply is negative
- 3: indicates output
- 4: indicates collinear

Six, test

Generally adjust to the high alarm when leaving the factory, connect the tuning fork level switch to the power supply, lift it and vertically insert it into the water, the insertion depth should be greater than 25mm, at this time the output relay is closed; Then lift the tuning fork away from the water surface, the output relay is disconnected, indicating that the instrument works normally.