

FC260 submersible Liquid Level (pressure) sensor Operation Instruction

The sensitive element of FC260 liquid level (pressure) sensor is based on the high-performance piezoresistive silicon oil-filling core. The inside specialized PCB can sense millivoltage signal and transform it to the standard current signal for long-distance transmission. It can directly connect with PC port, controller, intelligent meter and PLC conveniently. The sensor with waterproof ventilated cable and excellent sealing can work very well under liquid. It can be widely used for process control in the fields of petroleum, metallurgy ,chemical industry etc.

The anti-explosion performance of this level sensor can meet the requirement of Chinese national standard No.GB3836.1-2000, <Electrical apparatus for explosive gas atmosphere Part 1: general requirement>, GB3836.4-2000<Electrical apparatus for explosive gas atmosphere Part 4: Intrinsic safety> .

1. Typical Application :

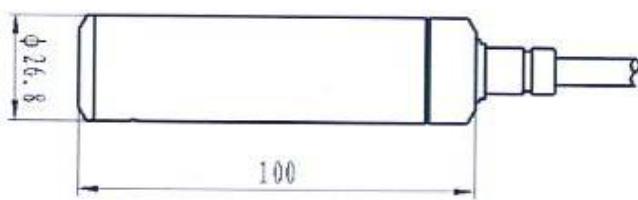
Depth and level measurement in

- Well
- Waste water
- Reservoirs
- Lakes
- Rivers
- Sewage treatment plant
- Water tank
- Ground water monitoring
- Surface water monitoring

2. Main Technical Parameter

- Range (H₂O): 1M,2M 5M 10M,20M 50M,100M,200M (or to be customized)
- Output: 4~20mA/ADC, 0~5V
- Accuracy: +/-0.25%F.S or +/-0.5%F.S
- Power supply: 12V or 24V
- Compensated temperature: 0 ~ 80 C
- Medium temperature: 0 ~ 100 C
- Environmental temperature: 0~85C
- Hot zero drift offset:
When the environmental temperature deviates from the operation temperature, the hot zero drift offset should not be more than 0.03%FS/°C
- Hot sensitivity drift offset
When the environmental temperature deviates from the operation temperature, the full scale offset drift should not more than 0.03%FS/°C
- Insulation Resistance
The insulation resistance between each terminal and the earth should not be less than 20MΩ/250V, under similar working condition .
- Explosive suppression Performance: Exia II CT4
- Multilevel electrical protection
- Housing material: 304 stainless steel
- Diaphragm ; SS316

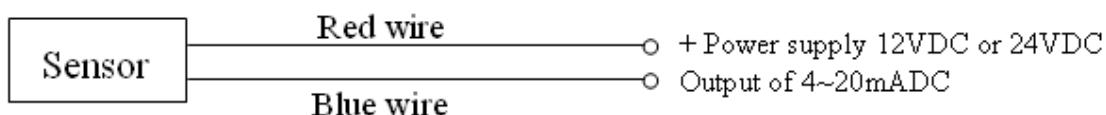
3. Shape and Dimension



4. Mounting:

- Choose the suitable location for easy maintaining and operation
- Choose the right mounting location that is free from shock and vibration.
- Be away from heating sources.
- The metal probe should be immersed to the bottom of the container when mounting

5. Electrical connection diagram:



6. Calibration :

If it brings the deviations of zero and full scale in operation, it should be calibrated every year by more precise pressure sources .

7. Attention for safety application:

- Take care of handling the sensor to avoid its component from impact that will cause circuit malfunction.
- Do not touch the sensitive diaphragm inside the housing.
- Wiring must be done according to the electrical connection diagram . Wrong wiring will cause damage of amplification circuit.
- Do not attach any heavy accessory on the cable when mounting sensor.
- Keep clean entrance hole of sensor periodically to prevent from jam.
- The cable is special and waterproof. So it should be avoid from abrasion, break and scrape, If there is any possible case like abrasion, break and scrape in the field, the necessary protective measure should be taken.
- Please be free to contact with us when there is something troublesome in using and mounting. Do not try to disassemble the sensor to be repaired when it has malfunction.

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