

FEATURES

- Outer diameter Φ 28 stainless steel shell, rugged exterior is easy to install.
- 3 sealing process, rigorous and reliable sealing.
- High accuracy, high stability, low cost.
- Signal isolation amplifier, anti-jamming.
- PTFE breathable cable.

APPLICATION

Used in an open tank and river ... etc., the sensor can be put in the position of the measured level of the bottom of the lower limit to the upper limit of the water signal.

Drinking water equipment / drilling / wastewater treatment plant / large tank containers / Current water (river, lake)



ORDERING INFORMATION

| Range | | Output | | Length | |
|-------|---------|--------|---------|--------|-----------------|
| CODE | Range | CODE | Range | CODE | Length |
| 001 | 0~ 1 m | 050 | 0~50 m | D | 4~20mA (2-wire) |
| 005 | 0~ 5 m | 100 | 0~100 m | 005 | 5 M (Standard) |
| 010 | 0~ 10 m | 200 | 0~200 m | 007 | 7 M |
| 025 | 0~25 m | 300 | 0~300 m | 012 | 12 M |
| | | | | 027 | 27 M |
| | | | | 052 | 52 M |
| | | | | 102 | 102 M |
| | | | | 202 | 202 M |
| | | | | 302 | 302 M |
| | | | | XXX | Option |

TECHNICAL SPECIFICATION

| | |
|--------------------------------|--|
| Measurement : | Liquid |
| Type: | Surface pressure |
| Sensors Type: | Diffusion of silicon + Septum |
| Measurement range: | 0~300m (Multiple range options) |
| Signal connection : | 2-wire loop (mA) |
| Output signal: | 4~20 mA dc |
| Accuracy: | $\pm 0.2\%$ F.S. |
| Load impedance: | 250~1425 Ω (Depending on operating voltage) |
| Reaction time: | ≤ 2 ms |
| Measurement media types | Liquid (For Stainless Steel materials not corrosive liquids) |

| | |
|-----------------------------|----------------------------------|
| Medium temp. | -30~60 $^{\circ}$ C |
| Long-term stability: | $\leq 0.1\%$ F.S./year |
| Temperature drift : | $\pm 0.01\%$ F.S. / $^{\circ}$ C |

| | |
|---------------------------|---------------|
| Power supply | 12~ 36 Vdc |
| Power Supply: | ≤ 21 mA |
| Power consumption: | ≤ 36 Vdc |

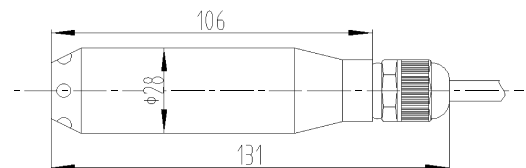
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|-------------------------------|-------------------------|
| Working environment | |
| Operating Temperature: | -30~60 $^{\circ}$ C |
| Relative humidity: | 0~95%RH, Non-condensing |
| Storage Temperature: | -40~85 $^{\circ}$ C |

| | |
|-------------------------------|---|
| Safety regulations | |
| Protection class: | IP68 |
| Electrical protection: | Overvoltage / Reverse / Limiting protection |
| Mounting | Direct input, cable Grommet |

| | |
|-------------------------------------|---|
| Mechanical | |
| Housing material: | 1Cr18Ni9Ti (SUS321) |
| Fluid contact part material: | Septum SUS316 |
| Wires Material: | PTFE Breathable Cable |
| Lead length: | Standard cable length 5m, length according to requirements of other extended Line length must be greater than the liquid level under level may not be continuous |

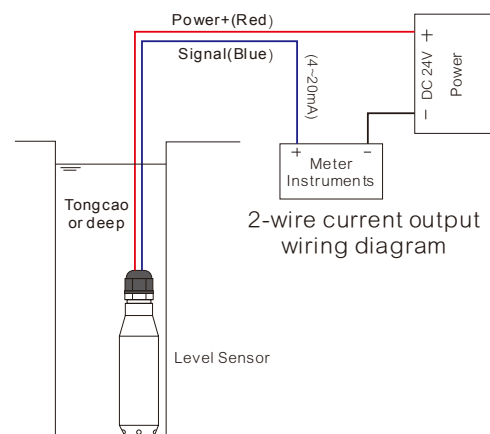
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|----------------|--|
| Weight: | ≥ 515 g (According to the different length) |
|----------------|--|

FRONT PANEL



Unit:mm

DIMENSIONS



Hydrostatic measurement principle

When the sensor into the liquid to be measured in a certain depth, the pressure on the liquid level sensor greet formula : $P = \rho \cdot g \cdot H + P_0$

- P: Static pressure on the liquid level gauge
- ρ : Measured liquid density
- g: Gravity acceleration (default: 9.8015)
- P₀: Pressure on the surface
- H: Sensors into the liquid depth

The pressure of the liquid into positive pressure chamber of the sensor, then the Pressure (P₀) on the surface of the negative pressure chamber is connected to the sensor, to offset the back pressure sensor (P₀), so that the sensor measured pressure: $\rho \cdot g \cdot H$, obviously, by taking the measured pressure (P), the deep level can be obtained.