

## Features

- Adopt diffusion oil-filled silicon core
- High accuracy and high overload capacity
- Excellent anti-corrosion and anti-wear performance
- Built-in temperature compensation, support Modbus-485 communication protocol (intelligent type)
- The top stainless steel cap can be removable to prevent accidental damage of the contact diaphragm and easy to clean



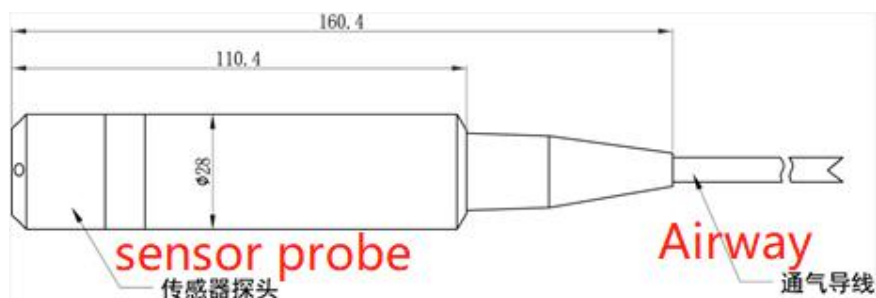
## Description

This liquid water level transducer adopts a high-performance pressure sensor as the measuring element. Through this pressure sensor, the hydrostatic pressure that is proportional to the depth of the liquid level can be accurately measured, and it is converted into a standard signal output (current or voltage) by a special signal conditioning circuit. The linear correspondence between the output signal and the liquid depth is established to realize the accurate measurement of the liquid depth. Thus, it can be put into the liquid directly to measure the height of the liquid level from the end of the transmitter to the liquid surface. It is widely used for water level or liquid level measurement and control in the fields of petroleum, chemical industry, power plant, urban water supply, and hydrological exploration.

## Specification

|                         |  |             |          |       |            |
|-------------------------|--|-------------|----------|-------|------------|
| Measurement Range       | 0~200mH <sub>2</sub> O (Gauge Pressure)                                |             |          |       |            |
| Overload Pressure       | 1.5 times full scales  |             |          |       |            |
| Burst Pressure          | 3.0 times full scales  |             |          |       |            |
| Accuracy                | ±0.5%F.S   |             |          |       |            |
| Stability               | <0.5%F.S/Year  |             |          |       |            |
| Working Temperature     | -20~+85°C/-40~+100°C (Customized)                                      |             |          |       |            |
| Compensated Temperature | -10~+70°C  |             |          |       |            |
| Storage Temperature     | -40~+100°C   |             |          |       |            |
| Medium Compatibility    | All corrosive medium compatible with stainless steel                   |             |          |       |            |
| Output Mode             | Two-wired  | Three-wired |          |       | Four-wired |
| Output Signal           | 4~20mA   | 0-4.5V      | 0-5V     | 0-10V | RS-485     |
| Power Supply            | 10~30VDC   | 5VDC        | 12~30VDC |       |            |
| Electrical Connection   | M12 Waterproof outlet  |             |          |       |            |
| Protection Grade        | IPX8   |             |          |       |            |
| Pressure Connection     | M20*1.5/ Throw-in Type   |             |          |       |            |
| Pressure Form           | Gauge Pressure   |             |          |       |            |
| Certification           | Safety explosion-proof type E, RoHS, EU electrical safety standards CE |             |          |       |            |

## Dimension



## Electrical Connection

| Output type                     | Function          | Wire Color | Pin-out |  | Output type                     | Function                              | Wire Color | Pin-out |
|---------------------------------|-------------------|------------|---------|--|---------------------------------|---------------------------------------|------------|---------|
| Waterproof wire<br>Current type | Power supply +    | Red        | 1       |  | Waterproof wire<br>Voltage type | Power supply +                        | Red        | 1       |
|                                 | Pressure signal + | Black      | 2       |  |                                 | Pressure signal +                     | Blue       | 2       |
|                                 |                   |            |         |  |                                 | Power supply - /<br>Pressure signal - | Black      | 3       |
| Waterproof wire<br>RS-485 type  | Power supply +    | Red        | 1       |  |                                 |                                       |            |         |
|                                 | RS-485 +          | Blue       | 2       |  |                                 |                                       |            |         |
|                                 | RS-485 -          | Yellow     | 3       |  |                                 |                                       |            |         |
|                                 | Power supply -    | Black      | 4       |  |                                 |                                       |            |         |

Order Ref NO.

| Code and Description |                                 | Notes                 |   |     |   |               |     |                         |
|----------------------|---------------------------------|-----------------------|---|-----|---|---------------|-----|-------------------------|
| <b>T3000</b>         |                                 | Model                 |   |     |   |               |     |                         |
| <b>Range</b>         | 0~200M                          | Measurement range     |   |     |   |               |     |                         |
| <b>A4</b>            | A4 = 4~20mA (Two-wired)         | Output mode           |   |     |   |               |     |                         |
| <b>V05</b>           | V05 = 0.5~4.5V (Three-wired)    |                       |   |     |   |               |     |                         |
| <b>V0</b>            | V0 = 0~5V (Three-wired)         |                       |   |     |   |               |     |                         |
| <b>V10</b>           | V10 = 0~10V (Three-wired)       |                       |   |     |   |               |     |                         |
| <b>RS</b>            | RS = RS-485 (Four-wired)        |                       |   |     |   |               |     |                         |
| <b>M</b>             | M                               | Unit                  |   |     |   |               |     |                         |
| <b>CM</b>            | CM                              |                       |   |     |   |               |     |                         |
| <b>0.5</b>           | 0.5 = 0.5%F.S                   | Accuracy class        |   |     |   |               |     |                         |
| <b>M</b>             | M = M12 (M12 waterproof outlet) | Electrical connection |   |     |   |               |     |                         |
|                      | <b>Throw-in type</b>            | Pressure connection   |   |     |   |               |     |                         |
|                      | <b>M20*1.5</b>                  |                       |   |     |   |               |     |                         |
| <b>1.0</b>           | 1.0 = 1m                        | Cable length          |   |     |   |               |     |                         |
| <b>2.0</b>           | 2.0 = 2m                        |                       |   |     |   |               |     |                         |
| <b>3.0</b>           | 3.0 = 3m                        |                       |   |     |   |               |     |                         |
| T3000                | 0-50                            | V0                    | M | 0.5 | M | Throw-in type | 2.0 | Model selection example |