



合肥皖科智能技  
HEFEI WNK SMART TECH

# PRODUCT MANUAL WNK8010-TT

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# PRODUCT INTRODUCTION

WNK8010-TT water level transmitter adopts high performance diffused silicon pressure sensor as the measuring element, which is high reliability, high accuracy and small in volume. It is widely used in measurement of liquid pressure and height in small inside diameter pump as well as level height of liquid reservoir, such as water, oil and mild corrosive liquid. The cable which has vented tube in connects with housing sealed, making sensor connecting to the atmosphere to make sure measurement precise.





## APPLICATION



**WATER  
TOWER**



**WATER  
PLANT**



**ANIMAL  
HUSBANDRY**



**AGRICULTURAL  
IRRIGATION**



**WATER  
WELL**



**WATER  
TREATMENT**



**WATER  
SUPPLY**



**WATER  
POOL**

## FEATURES

- Wide range application;
- Using high reliable and stable oil filled diffused silicon sensor;
- Full stainless steel sealed construction;
- IP68 protection;
- High precision, high frequency response, long-term stability;
- CE certification;



## SPECIFICATION PARAMETERS

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| Pressure range        | 0~1M-200M H <sub>2</sub> O                         |
| Max overload          | 150% of sensor range                               |
| Burst pressure        | 300% of sensor range                               |
| Output                | 0.5-4.5V, I2C, 1-5V, 4-20mA, 0-5V, 0-10V           |
| Power supply          | 5V, 3.3-5V, 12-30V, 10V, 24V                       |
| Accuracy              | 0.5%FS/year                                        |
| Stability             | 0.25%FS/year                                       |
| Housing material      | Stainless steel 304 (Optional 316 stainless steel) |
| Cable material        | Polyethylene/PTFE                                  |
| Ambient temperature   | -20~85°C                                           |
| Process temperature   | -20~85°C                                           |
| Protection class      | IP68                                               |
| Insulation resistance | 50MΩ                                               |
| Response time         | 20ms                                               |

## WIRE CONNECTION

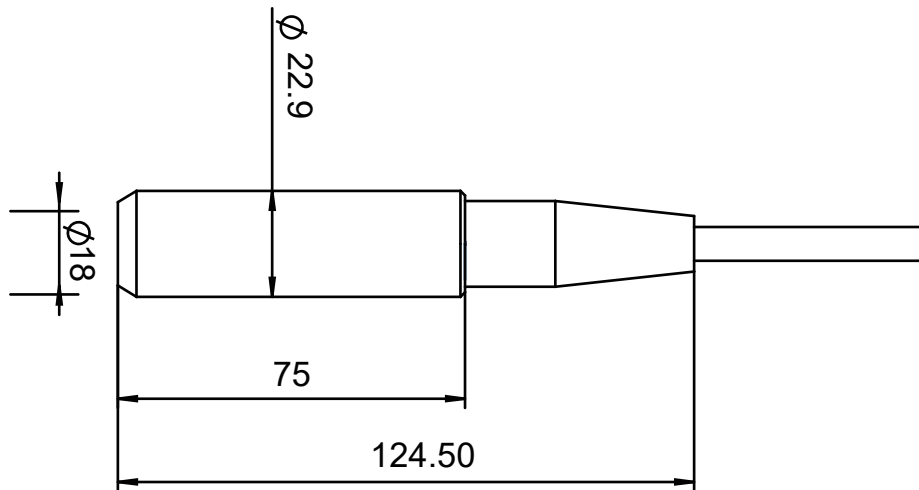
|          |         |            |               |           |
|----------|---------|------------|---------------|-----------|
| 4-20mA   | red +   | blue -     |               |           |
| V output | red +   | blue -     | yellow signal |           |
| I2C      | red VCC | yellow SCL | blue GND      | black SDA |

|                |          |        |        |       |        |
|----------------|----------|--------|--------|-------|--------|
| Output         | 0.5-4.5V | I2C    | 4-20mA | 1-5V  | 0-10V  |
| Supply Voltage | 5V       | 3.3-5V | 12-30V | 9-30V | 12-30V |



## PRODUCT SIZE

Unit:mm



## SELECTION GUIDE

WNK8010-TT

XX

XX

XX

XX

XX

Measured range  
Pls specify

Probe material  
S1: 304SST(standard)  
S2: 316LSST

Cable material  
C1: Polyethylene  
(standard option)  
C2: PTFE  
(for corrosive medium)

Cable length  
Pls specify

Output  
D1: 0.5-4.5V  
D2: I2C  
D3: 1-5V  
D4: 0-10V  
D5: 4-20mA