

KWS-250 Online NH4-N Ammonia Nitrogen Sensor

Introduction

The KWS-250 integrated online ammonia nitrogen sensor is fabricated using a PVC membrane-based ammonium ion selective electrode for testing ammonium ion content in water with temperature compensation to ensure fast, simple, accurate and economical testing.

Feature

- Signal output: RS-485 bus, Modbus/RTU protocol, convenient to connect to PLC, DCS, industrial control computer, general controller, paperless recording instrument or touch screen and other third-party equipment.
- The patented ammonium ion probe, the internal reference solution oozes
 extremely slowly from the microporous salt bridge at a pressure of at least 100
 KPa (1 Bar). Such a reference system is very
 stable and has a longer electrode life than conventional industrial electrodes.
- Easy to install: 3/4 NPT thread (pipe thread) for easy submersible installation or installation in pipes and tanks.
- IP68 protection grade.

Technical Specifications

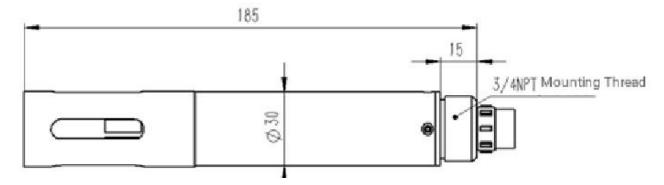
| Model | KWS-250 |
|--------------------------|---|
| Range | $0{\sim}10$ mg/L or $0{\sim}100$ mg/L |
| Resolution | 0.01mg/L |
| Accuracy | ±10% or ±1 mg/L, which is bigger |
| Operating Temperature | 0~40℃ |
| Work Pressure | <0.1MPa |
| Ph Range of Medium | 4∼10 pH |
| Temperature Compensation | automatic temperature compensation (Pt1000) |
| Power Supply | 12~24VDC ±10% |
| Output | RS485, Modbus/RTU |
| Material | PVC and POM |
| Installation | 3/4"NPT, submersible installation |
| Cable Length | 5m, customizable |
| Calibration | two-point calibration |
| Power Consumption | <0.3W@12V |
| Protection Grade | IP68 |

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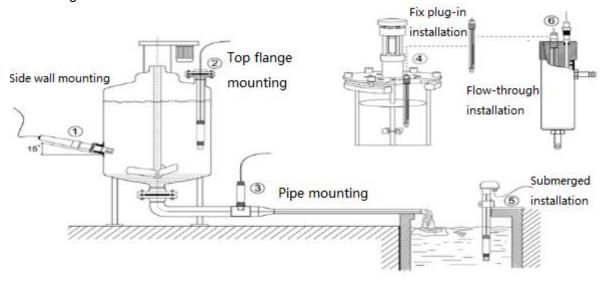


Dimension



Installation

Note: The sensor should not be installed upside down or horizontally when installed, at least at an angle of 15 degrees or more.



Electrical connection

- Red wire-power cord(12~24V)
- Black wire-ground wire (GND)
- Blue Line-485A
- White Line-485B
- Bare wire-shield layer

After the wiring is completed, it should be carefully checked to avoid the wrong connection before the power is turned on.

Cable specification: Considering that the cable is immersed in water (including sea water) or exposed to air for a long time, the cable has a certain corrosion resistance. All interfaces of cable outer diameter Φ 6 mm, have been waterproof.