PINH3-900 Ammonia Nitrogen sensor Online Analyzer

Measurement Principle

The ammonia nitrogen concentration was measured by an ion selective electrode method. The ammonia nitrogen sensor is composed of an ammonium ion selective electrode, a potassium ion (optional), a pH electrode and a temperature electrode to form an integrated sensor. These parameters can mutually correct the measurement value of ammonia nitrogen, and at the same time realize multi-parameter measurement.



Features

- Standard digital signal output for integration and networking with other devices without a transmitter.
- The sensor is easy to install on site, enabling plug and play.
- The sensor power supply is reversed and protected. The sensor RS485 A/B terminal is connected to the power supply protection.
- Optional time display, data storage and historical data viewing.
- Optional data wireless transmission module.

Applications

- Sewage treatment plants monitoring instruments and ammonia nitrogen values in aeration tanks monitoring instruments
- Industrial processes and river water monitoring instruments.

Technical Specifications

Measurement range	NH4N：0.1-3000 mg/L; K+：0.5-5000 mg/L (Optional); PH：5-10; Temp.:0-40℃
Resolution	NH4N：0.01 mg/l;　K+：0.01mg/L（optional）;PH：0.01; Temp.: 0.1℃
Accuracy	NH4N：±5 % or ± 0.2 mg/L (bigger one); K+：±10 % or ±0.2 mg/L（optional）; Temp.: ±0.5℃; pH：±0.1 pH
Repeatability	±5% or 0.2mg/l, whichever is greater
Pressure	Max Pressure: 0.1MPa (10m)
Power supply	85-500VAC；DC:　9-36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value
Communication protocol	MODBUS RS485
Storage temperature	0-50℃ (Non-freezing)
Operating temperature	0-40℃ (Non-freezing)
Dimension	Sensor：Dia55mm*L 342mm
	Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：1Kg；Transmitter：1.35Kg
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP66/ NEMA4X
Cable length	Standard 10M cable (Max could be extended to 100M)

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