RK500-15 Ammonium ion (NH_4^+) Sensor



Overview

The RK500-15 Ammonia Nitrogen Sensor uses an ammonium ion electrode based on PVC film to test the content of ammonium ion in water. With temperature compensation, the measurement is fast, simple and accurate. The internal reference liquid of the ammonium ion electrode exudates from the microporous salt bridge very slowly. the service life of the electrode is longer than that of the ordinary industrial electrode.

Features

- Magnetic isolation technology with strong anti-interference ability
- Simple operation and high reliability
- No external module, a whole design
- 4-20mA and RS485 at the same time
- Immersion in water or pipe installation

Applications

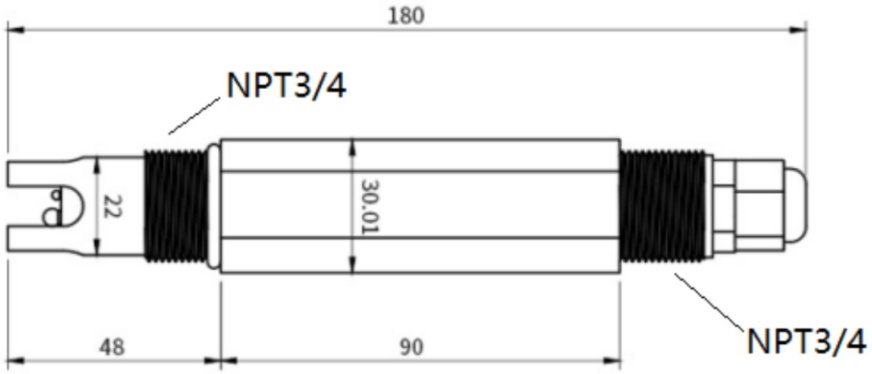
- Aquaculture
- Water quality monitoring
- Sewage treatment
- Environmental monitoring
- Dosing device

Technical Parameter

Item	Technical Specification
Range	0-10ppm,0-100ppm
Accuracy	±5%FS
Resolution	0.1mg/L
Drift	≤0.1ppm/24h
Supply	7-30VDC
Output	4-20mA&RS485(Modbus-RTU)
Pressure resistance	<0.5MPa
Response time	5s (98%,flowing liquid) ,14s (98%,stationary liquid)
Power consumption	<0.5W
Operating temperature	0-55℃
Probe material	ABS
Ingress protection	IP68
Storage	10-60℃@20%-90%RH
Cable length	5m default, customizable

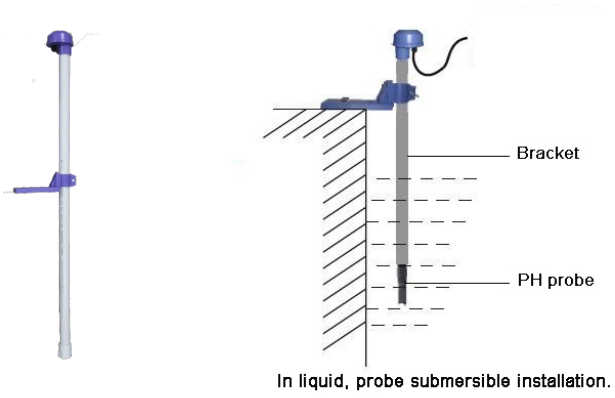
Dimension

Unit:mm

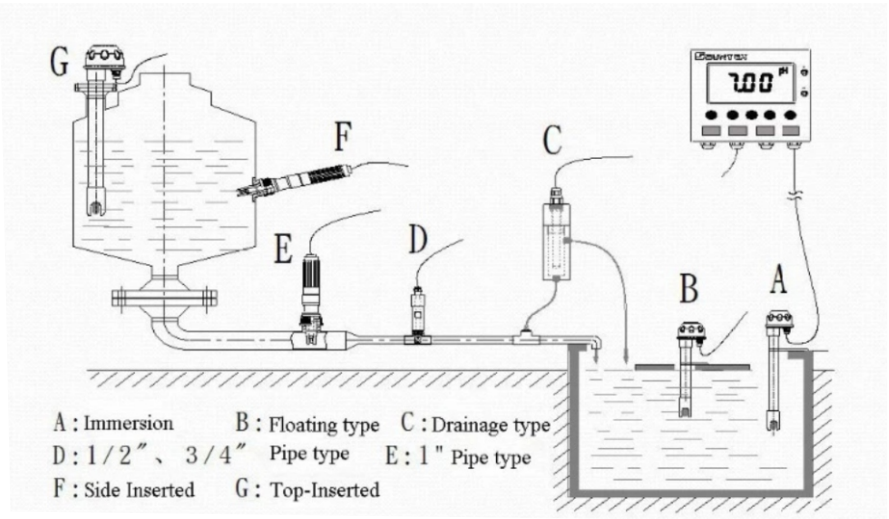


Installation And Fixed

Installation bracket (length=1m) NPT3/4 installation thread is optional



In liquid, probe submersible installation.



Parameter Selection Table

Remark	Series	Type	Supply	Range	Accessory	Cable Length	
RK							
	500						
		15					
			A				7-30VDC
			X				Other
				A			0-10ppm
				B			0-100ppm
				X			Other
					A		With mounting bracket
					N		Without any accessory
						5000	Unit(mm)
						…	Unit(mm)

Example: RK500-15AAN5000 Supply:7-30VDC, Range:0-10ppm, without any accessory, Cable length:5m.

Revision time	Reviser	Current Version	Remarks
20250715	Echo	V5. 0	