



RK500-29 Residual Chlorine Sensor

Overview

RK500-29 Residual Chlorine Sensor adopts the principle of constant pressure method, which can accurately detect the concentration of residual chlorine in water. It has a rapid response time (approximately 5s), and IP68 protection level, allowing it to be used underwater. This sensor is suitable for scenarios such as drinking water treatment plants, swimming pools, and food processing circulating water systems that require strict control of residual chlorine content. It can effectively monitor the disinfection effectiveness and ensure water quality safety.

Features

Adopting constant pressure method, providing stable, precise, and long-lasting performance

Simultaneously outputs Modbus 485 and 4-20mA

Internal signal isolation technology, featuring strong anti-interference capability

Excellent repeatability and thermal stability

IP68 waterproof standard

Low drift, small size, fast response speed

Applications

Swimming pool

Water source monitoring

Sewage treatment

Environmental monitoring

Dosing device

Technical Parameter

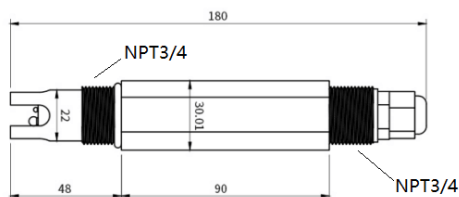
Item	Technical Specification
Range	0~2ppm,0~5ppm(typ.),0-10ppm
Principle	Constant voltage method
Working temperature	0-50℃
Accuracy	±5%FS
Resolution	0.01ppm
Power	7~30VDC
Power consumption	<0.5W
Output	4-20mA&RS485(Modbus-RTU)
Drift	<0.01ppm/48h
Main material	ABS
Protection class	IP68
Pressure of work	< 0.5MPa
Velocity of flow	>15cm ³ /S(Need to maintain a constant flow rate)
Cable length	5 m(default), customizable
Installation thread	3/4" NPT



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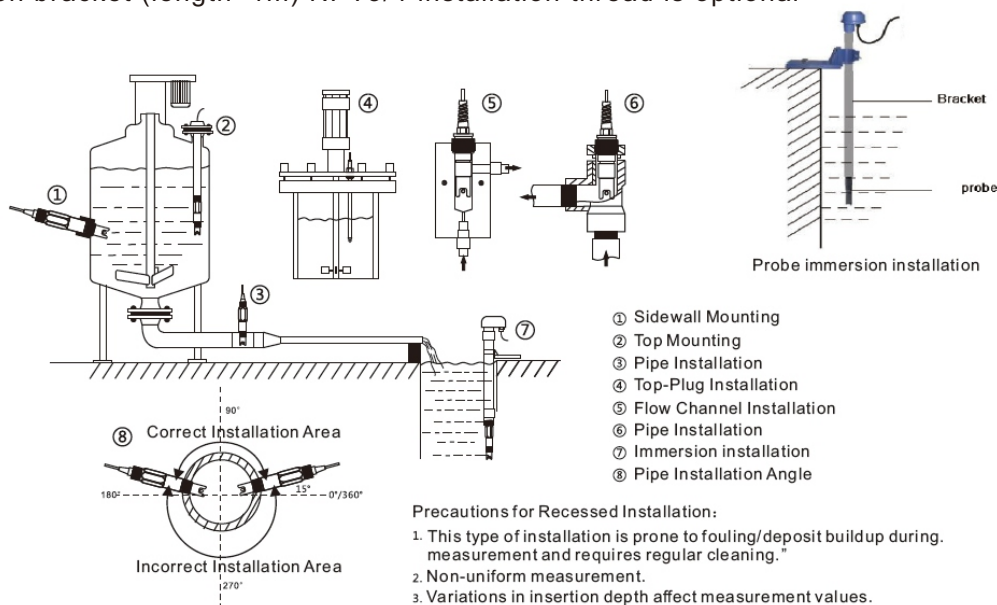
Dimension

Unit:mm



Installation And Fixed

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



Parameter Selection Table

Remark	Series	Type	Supply	Range	Accessory	Cable Length
RK	500	29	A			7-30VDC
			X			Other
				A		0-2ppm
				B		0-5ppm(typ.)
				C		0-10ppm
				X		Other
					A	With mounting bracket
					N	Without any accessory
						5000
						Unit(mm)
						...
						Unit(mm)

Example: RK500-29AAN5000 Supply:7-30VDC, Range:0-2ppm, without any accessory, Cable length:5m.

Revision time	Reviser	Current Version	Remarks
20250715	Echo	V5.0	