

Overview

RK500-13 EC Sensor uses advanced anti-polarization technology, internal signal isolation technology, and have strong anti-interference ability. Stable measurement, accurate, maintenance-free, easy to install. Mainly used in aquaculture, water source testing, sewage treatment, environmental monitoring and so on.

Features

On-line & real-time measurement

Graphite electrode and nylon fiber shell

High accuracy

Electromagnetic isolation

Strong resistance to corrosion

Polarization resistance

High temperature resistance

Integral design without external transmitter

Applications

Environmental protection

Aquaculture

Water source monitoring

Environmental monitoring

Sewage treatment

Oil and gas pipeline corrosion monitoring

Technical Parameter









Туре	Α	В	С	D	
	Economy	Conventional type	Strong anti-corrosion	Food grade	
Main material	ABS shell+graphite electrode	Nylon fiber+316 electrode	Nylon fiber+graphite electrode	316L+PEEK	
Screw thread	Bottom	: NPT3/4	Upper: NPT3/4,Bottom: NPT3/4	NPT3/4(D1,D2)	
Pressure Resistance	0.8MPa	1.0MPa	1.0MPa	2. 0MPa	
Temperature Compensation	А	Automatic (Temperature 0-100°C)			

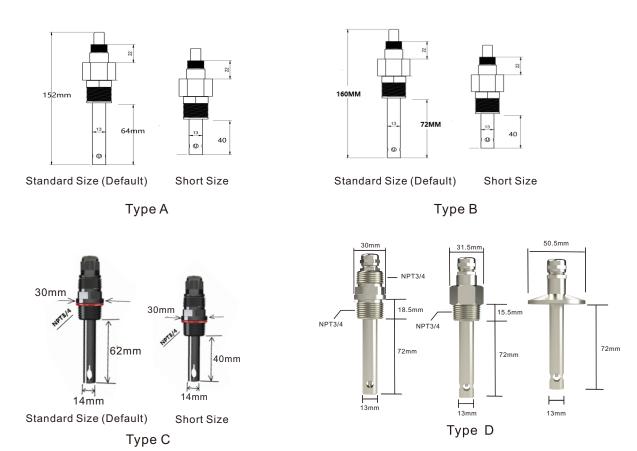
Technical Parameter

А	В	С	D	
Output signal	4-20mA & RS485 at the sa	ame time	4-20mA & RS485 at the same time; 4~20mA(two-wire)	
Supply	7-30VDC		7-30VDC, 22-28VDC(4~20mA two-wire)	
Range EC	$0{\sim}2000$ μs/cm, $0{\sim}5000$ μs/c $0{\sim}20000$ μs/cm(any range can be customized, 1ms/cn	of 0-300ms/cm	$0\sim$ 50μs/cm, $0\sim$ 500μs/cm, $0\sim$ 10000μs/cm, $0\sim$ 20000μs/cm(any range of 0-300ms/cm can be customized)	
Accuracy	±1%FS			
Resolution	0.01mS/	cm		
Power consumption	<0.2W	<0.2W		
Principle	Frequen	Frequency conversion method		
Response time	1s			
Drift	≤0.3%F	S/24h		
Measurement environment	0-60°C(H	0-60°C (High temperature electrodes can be customized)		
Ingress protection		IP68		
Storage	10-60°C(10-60°C@20%-90%RH		
Cable length	5m defa	5m default, other length customizable		

Type	Application
А	Mild corrosion scenarios, pressure resistant to general environment
В	General freshwater testing, high pressure-resistant environment
С	Mariculture, strongly corrosive sewage, complex scenes etc
D	Food grade requirements, high temperature and high pressure environment

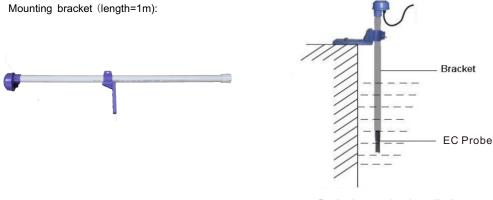
Dimensions

Unit:mm



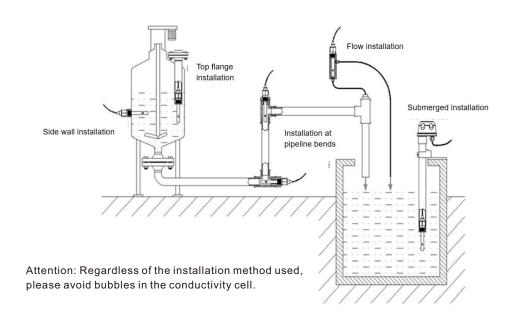
Installation & Usage

- Put directly into the liquid
- Adopt submersible mounting bracket (showin the below figure)



Probe immersion installation

Installation & Usage



Parameter Selection Table

Remark	Series	Туре	Supply	Output	Accessory	Cable Length	
RK							
	500-13						
		Α					Economy
		В					Conventional type
		С					Strong anti-corrosion
		D1-D3					Food grade
			А				7-30VDC
			Х				Other
				А			4-20mA & RS485
				В			RS485
				С			4-20mA
					А		With mounting bracket
					N		Without mounting bracket
						5000	Unit(mm)
							Unit(mm)

 $Example: RK500-13BAAN5000\ Conventional\ type,\ Supply: 7-30V,\ Output: 4-20mA\ \&\ RS485,\ Without\ any\ accessory,\ Cable\ length: 5m.$

Revision time	Reviser	Current Version	Remarks
20250425	Lee	V5. 0	