

RK500-13 EC/Salinity/TDS 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
- Titanium alloy electrode & Teflon lining
- High accuracy
- Electromagnetic isolation
- Strong resistance to corrosion
- Polarization resistance
- High temperature resistance
- Integral design without external transmitter
- Three parameters can be measured at the same time



APPLICATIONS

- Environmental protection
- Aquaculture
- Water source monitoring
- Environmental monitoring
- Sewage treatment
- Oil and gas pipeline corrosion monitoring

TECHNICAL SPECIFICATION

Item	Technical Specification	
	EC	Salinity/TDS
Measuring medium	Liquid	
Principle	Frequency conversion method	
Range①	0~500μs/cm, 0~5000μs/cm, 0~10000μs/cm, 0~200000μs/cm (any range of 0-300ms/cm can be customized, 1ms/cm = 1000μs/cm)	0-250ppm, 0-2500ppm, etc., 1ppm(mg/L)=1000ppb(μg/L)=1000000pt(ng/L)
	Measuring temperature: 0-70°C	
Supply	7-30VDC (power consumption<0.2W)	
Accuracy	±1%	
Response time	1s	
Output signal②	4-20mA & RS485 at the same time	
Temperature compensation	Automatic compensation	
Measurement type	Freshwater	Seawater
Electrode	316L	Graphite
Probe material	316L	ABS+PC synthetic plastic (Strong

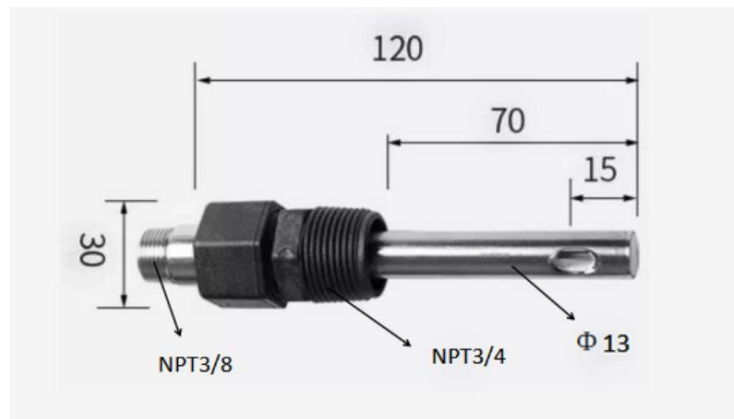
		corrosive liquid or seawater); Plastic version is recommended if measuring sea water
Drift	≤0.3%FS/24h	
Operating temperature	-20°C-+80°C	
Ingress protection	IP68	
Storage	10-60°C@20%-90%RH	
Cable length	Default:5m	

①The salinity range is half of the EC.

②4-20mA defaults to EC value

DIMENSION

Unit: mm

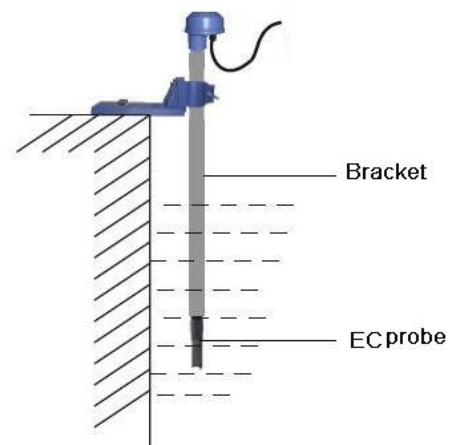


Note: The size of the sea water model is the same as that of the talk water model.

INSTALLATION & USAGE

- Directly into the liquid
- Adopt submersible mounting bracket (show in the below figure)

Mounting bracket(length=1m):



In liquid, probe submersible installation.

PARAMETER SELECTION TABLE

Remark	Series	Type	Parameter	Supply	Material	Accessory	Cable Length	
RK								
	500							
		13						
			A					Freshwater
			B					Seawater
				A				7-30V
				X				Other
					A			316L
					B			ABS+PC
					X			Other
						A		With mounting bracket
						N		Without any accessory
							5000	Unit(mm)
							...	Unit(mm)

Example: RK500-13AAAAN5000 Freshwater sensor, Supply:7-30V, Material:316L, Without any accessory, Cable length:5m.



Complies with applicable CE directives.

Specifications subject to change without notice. Version 4.0

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Hunan Rika Electronic Tech Co., Ltd

Address: Building 10, International Enterprise Center, No. 268, Xinxing Road, Yuhua District, Changsha City, Hunan Province, China



+86-731-85132979



info@rikasensor.com



www.rikasensor.com