

RK500-22 pH sensor should be a good solution to measure pH value. It uses low-impedance sensitive glass, adopts internal signal isolation technology, has strong anti-interference ability, has good reproducibility, thermal stability, and does not require professional calibration instruments. Easy installation, stable performance, can be used to continuously measure the pH value of the soil, suitable for agriculture and environmental protection and other fields.

## FEATURES

- On-line & real-time monitoring
- Low impedance sensitive glass film
- RS485 and 4-20mA output at the same time, directly connected to computer and PLC systems
- Good repeatability and thermal stability
- Internal signal isolation, strong anti-interference
- Widely power supply
- IP68 Waterproof Standard
- Low drift, small size, fast response
- Easy installation, simple
- Stable performance and long service life
- Aviation connector is optional to facilitate electrode replacement



## APPLICATIONS

- Environmental protection
- Agriculture
- Aquaculture
- Water conservancy
- Sewage treatment
- Soil remediation

## TECHNICAL SPECIFICATION

Item	Technical Specification
Measurement Principle	Electrochemistry
Range	0-14PH
Supply	7-30VDC (power consumption<0.2W)
Accuracy	±0.05PH
Resolution	0.01PH
Response time	<10s (soil moisture>30%)
Stability	≤0.01PH/24h
Output Signal	4-20mA & RS485 at the same time
Calibration Cycle	Every 6 month
Operating Environment	0→80°C(<0.6MPa)
Cable length	5m(default), customizable
Probe material	304SS

Ingress Protection	IP68
Storage	10-60°C@20%-90%RH

## PH SCALE

PH value	Description	PH value	Description
<4.5	Strongly acidity	7.5-8.5	Faintly alkalinity
4.5-5.5	Acidity	8.5-9.5	Alkalinity
5.5-6.5	Faintly acidity	>9.5	Strongly alkalinity
6.5-7.5	Neutral		

## ELECTRODE MAINTENANCE

PH electrode is not used at ordinary times and can be soaked in 3mol/l KCL solution or saturated KCL solution. It is strictly prohibited to immerse the electrode in distilled water and deionize the water or tap water with minimal plasma content. If the PH electrode is contaminated with inorganic substances, it can be cleaned with 0.1mol/l Hcl or NaOH solution for a few minutes and then washed with distilled water. If the PH electrode is contaminated with organic substances, it can be cleaned with alcohol or acetone and then cleaned with distilled water. (note: the protective cap before the electrode should be removed when using);

Clean the electrode with tap water every 3 months or 6 months according to the working environment.

## PARAMETER SELECTION TABLE

Remark	Series	Type	Supply	Output	Cable Length	
RK						
	500					
		22				
			A			7-30V
			X			Other
				A		4-20mA
				B		RS485
				X		Other
					5000	Unit(mm)
					...	Unit(mm)

Example: RK500-22AA5000 Supply:7-30V, Output:4-20mA, Cable length:5m.



Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.1

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