RK500-22 Soil PH Sensor



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℃@20%-90%RH		



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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	Туре	Supply	Output	Cable Length	
RK						
	500					
		22				
			Α			7-30V
			Х			Other
				Α		4-20mA
				В		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 3.0

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