

## FEATURES

- On-line & real-time monitoring
- Solid dielectric and PTFE liquid junction, not easy jam, maintenance free
- High accuracy
- Simple operation and high reliability
- Internal signal isolation, strong anti-interference
- Widely power supply(7-30VDC)
- Probe can be used under water(IP68)
- Submerged mounting bracket is optional



## APPLICATIONS

- Environmental protection
- Agriculture
- Aquaculture
- Water conservancy
- Sewage treatment
- Industrial wastewater treatment





## TECHNICAL SPECIFICATION

Item	Technical Specification
Measurement Principle	Electrochemistry
Range	0-14PH
Supply	7-30VDC(power consumption<0.2W)
Accuracy	±0.05PH
Resolution	0.01PH
Temperature Compensation	Temperature compensation is optional
Response time	<8s(flowing liquid), <14s(stationary liquid)
Stability	≤0.01PH/24h
Output Signal	4-20mA & RS485 at the same time
Calibration Cycle	Every 6 month(General water ) Every 3 month or shorter(Seriously polluted water )
Operating Environment	0-+80℃(<0.6MPa), high pressure is customizable
Cable length	5m(default),customizable
Ingress Protection	IP68
Storage	10-60℃@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		

**ORDERING INSTRUCTIONS**

 <p>Type A</p>	<p>Universal type ABS housing , Up and down are NPT3/4 threads</p>	<p>Unit:mm</p> 
 <p>Type B</p>	<p>Highly corrosion resistant PPS housing , Up and down are NPT3/4 threads</p>	
 <p>Type C</p>	<p>Standard glass type Length=120mm</p>	

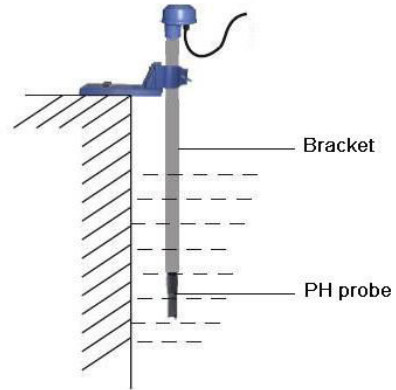
**ELECTRODE MAINTENANCE**

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);

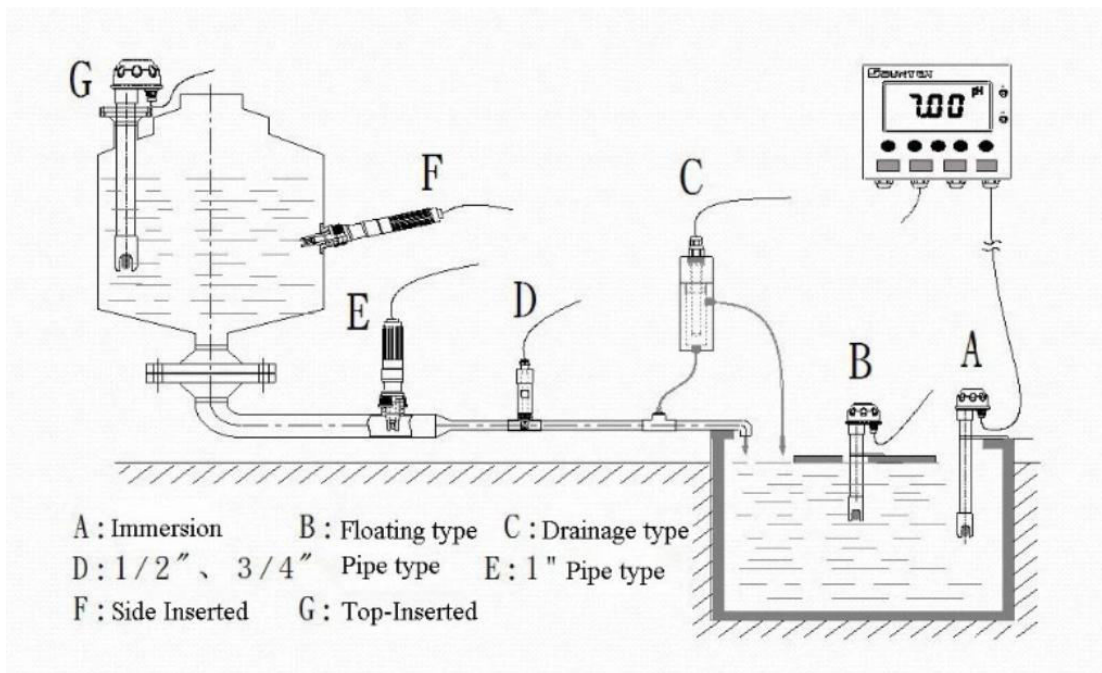
Clean the electrode with tap water every 3 months or 6 months according to the working environment.

**INSTALLATION AND FIXED**

Mounting bracket(length=1m) is optional



In liquid, probe submersible installation.



**PARAMETER SELECTION TABLE**

Remark	Series	Type	Supply	Output	Temperature compensation	Accessory	Cable Length	
RK								
	500							
		12A						Type A Universal type
		12B						Type B Highly corrosion resistant
		12C						Type C Glass type
		12X						Other
			A					7-30V
			X					Other
				A				4-20mA
				B				RS485
				X				Other
					A			With temperature compensation
					N			Without temperature compensation
						A		With mounting bracket
						N		Without mounting bracket
							5000	Unit(mm)
							...	Unit(mm)

Example: RK500-12AAANN5000 Universal type,Supply:7-30V, Output:4-20mA, Without Temperature compensation,Without mounting bracket, Cable length:5m.






**CE** Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.0

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