ORP sensor is simple and cost effective solution for a wide variety of waste water and process applications. This all-in-one sensor provides simultaneous measurement of ORP and temperature. The rugged Ryton body is designed for easy installation into on-line via the 3/4 inch tapered threaded connections provided on both ends of the sensor. The wide body sensors (26 mm diameter) hold four separate elements in one unbreakable Ryton body, large volume gelled electrolyte and the double junction reference system slows down depletion and poisoning extending the life time.

FEATURES

- On-line & real-time monitoring
- Simultaneous ORP and temperature measurement
- Integral temperature element for enhanced accuracy
- Double junction and long diffusion path for reference pollution resistance
- Extended life time by large volume of polymerized electrolyte and porous PTFE diaphragm
- Solid Glass/Platinum electrode for solution ground or ORP measurement
- Simple maintenance by comprehensive design
- Submerged mounting bracket is optional

APPLICATIONS

- Environmental protection
- Water quality monitoring
- Aquaculture
- Biochemistry
- Sewage treatment
- Industrial wastewater treatment
- Pharmaceutical
- Chemical

TECHNICAL SPECIFICATION

Item	Technical Specification	
	ORP	Temperature(only for RS485)
Measurement Principle	Electrochemical(platinum ring)	Thermal resistance
Range	-1500mV-+1500mV	0-80℃
Resolution	0.1mV	0.1℃
Accuracy	±0.5mV	±0.5℃
Supply	7-30VDC	
Response time	5s	
Output	4-20mA & RS485 at the same time	
Operating Environment	-10-+80℃(<0.6MPa)	
Stability	≤1%/year	
Maintenance	Every 1 months to clean the electrode ,every 6 months calibrated	
Power consumption	<0.4W	
Ingress Protection	IP68	
Storage	10-60℃@20%-90%RH	
Cable length	5m default,,customizable	

ORDERING INSTRUCTIONS

<table>
<tr><td> 
Type A</td><td>Universal type
ABS housing ,
Up and down are NPT3/4 threads</td><td rowspan="3">Unit:mm
 
</td></tr>
<tr><td> 
Type B</td><td>Highly corrosion resistant
PPS housing ,
Up and down are NPT3/4 threads</td></tr>
<tr><td> 
Type C</td><td>Standard glass type
Length=120mm</td></tr>
</table>

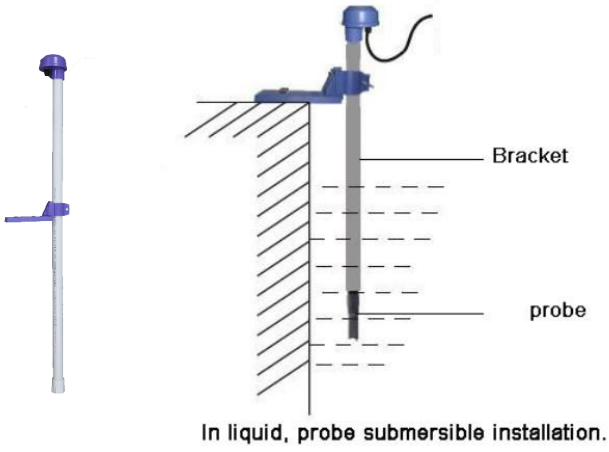
ELECTRODE MAINTENANCE

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);

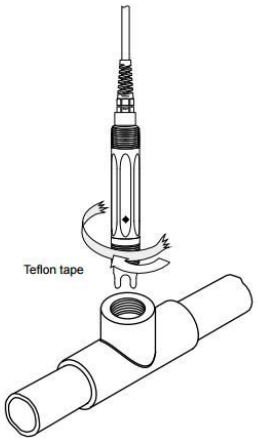
Clean the electrode with tap water every 3 months or 6 months according to the working environment.

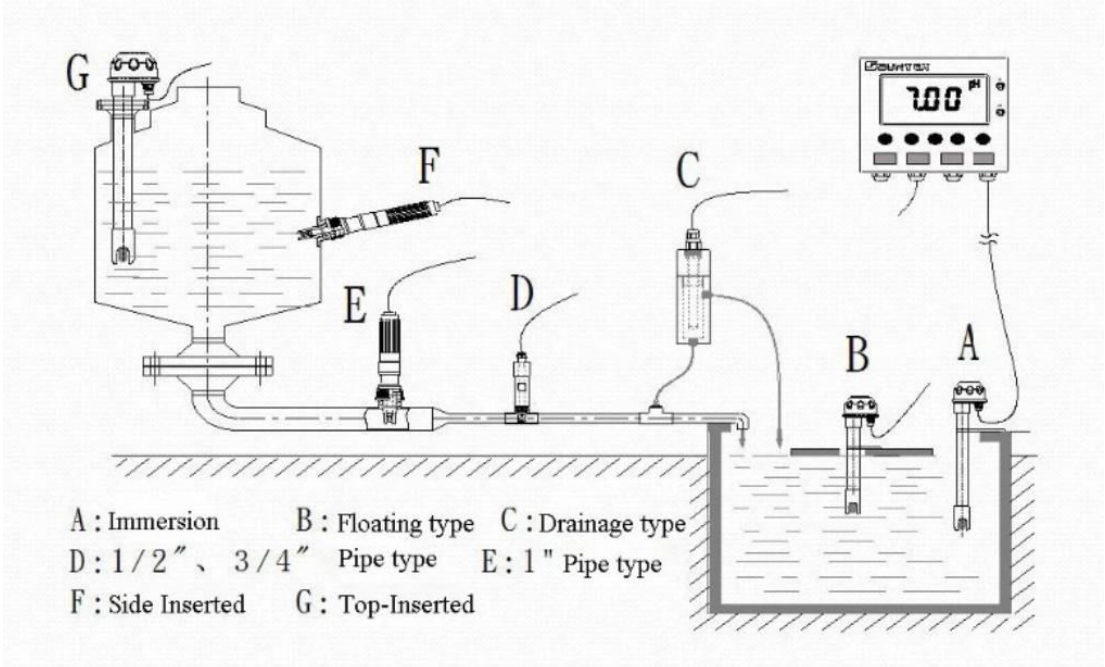
INSTALLATION AND FIXED

Mounting bracket(length=1m) is optional



In liquid, probe submersible installation.





PARAMETER SELECTION TABLE

Remark	Series	Type	Supply	Output	Accessory	Cable Length	
RK							
	500						
		06A					Type A Universal type
		06B					Type B Highly corrosion resistant
		06C					Type C Glass type
		06X					Other
			A				7-30V
			X				Other
				A			4-20mA
				B			RS485
				X			Other
					A		With mounting bracket
					N		Without mounting bracket
						5000	Unit(mm)
						...	Unit(mm)

Example: RK500-06AAAN5000 Universal type,Supply:7-30V, Output:4-20mA, 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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