

# Multi-Parameter Water Quality Measurement



## iSens-X

RoHS

CE

### Overview

The iSens-X multi-parameter water quality meter is a multi-parameter measuring instrument that can integrate pH/ORP, conductivity, salinity, dissolved oxygen (DO), turbidity, COD, TOC, ammonia nitrogen, oil, chlorophyll and temperature into one instrument. The instrument can be installed up to six sensors to obtain water quality parameter data. Each sensor through different electrochemical, optical or physical detection means to measure the respective parameters. Users can read the measurement data through handheld instruments, but also through the data acquisition instrument to transfer data to the data acquisition platform.



### Main Features

- Fast measurement cycle: 10 second.
- Environmentally friendly: no reagent consumption.
- Long maintenance-free cycle: a built-in cleaning brush.
- fast connection to gauge heads: RS485 communication.
- High protection level: IP68 protection for harsh environments.
- Multi-parameter all-in-one: fewer interfaces, smaller footprint.



### Specifications

Power requirements	DC 24 V with battery version and external power supply version
Dimension	Φ66×466 mm
IP rating	IP68
Cable	Customized cable lengths, different charges for different lengths
Depth	Maximum depth 100 m
Materials	Peek, T itanium/SUS316 (Optional SUS316)
Installation	Submerged
Cleaning method	Automatic cleaning brush
Measurement period	10 to 65535 seconds
Certifications	CE/RoHS

ALL-in-ONE

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# Multi-Parameter Water Quality Measurement iSens-X



## Parameter information

Parameter	Model No.	Range	Resolution	Accuracy (Standard solution)
pH	ASM002820	0-14	0.01	±0.1 pH
ORP	ASM002821	-1500 mV~ 1500 mV	1 mV	±20 mV
pH/ORP	ASM002772	pH: 0-14 ORP: -1500 mV~1500 mV	0.01 1 mV	pH: 0.01 pH ORP: ±20 mV
EC TDS Salinity	ASM002774	0.001-200000 µS/cm 0.01-100000 mg/L 0.01-120000 mg/L	Min. 0.001 µS/cm Min. 0.01 mg/L Min. 0.01 mg/L	±5% ±5% ±5%
DO	ASM002775	0-20 mg/L, 0-200%	0.01 mg/L 0.10%	±0.1 mg/L ±1 %
TUR	ASM002776	0-1000 NTU	0.001 NTU	± 5 % or ± 0.015 NTU
COD NO3-N TOC	ASM002777	0-500 mg/L 0-50 mg/L 0-200 mg/L	0.01 mg/L 0.01 mg/L 0.01 mg/L	±5% or ±5 mg/L ±5% or ±1 mg/L ±5% or ±2 mg/L
NO3-N	ASM002831	0-200 mg/L	1 mg/L	±5% or ±1 mg/L
NH3-N	ASM002770	0-1000 mg/L	1 mg/L	±5% or ±1 mg/L
K+	ASM002771	0-1000 mg/L	1 mg/L	±5% or ±1 mg/L
Chlorophyll-a	ASM002790	0-400 ug/L 0-100 RFU	0.01 ug/L 0.01 RFU	R <sup>2</sup> >0.999
Blue-green algae	ASM002791	BGA PC: 0-100 ug/L 0-100 RFU BGA PE: 0-100 ug/L 0-100 RFU	0.01 ug/L 0.01 RFU	R <sup>2</sup> >0.999
TEMP	-	0-50 °C	0.1 °C	±1 °C
Depth	-	0-100 m	0.001~1 m	±0.05 ~±10 m

## Application



Outdoor Intensive Aquaculture



Recycle Aquaculture System



Sewage Treatment Plant

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