



Online Multi-parameter Water Quality Sensor

Model : MS-301



BOQU Online Multi-Parameter Water Quality Sensor is suitable for long-term field on-line monitoring. It can achieve the function of data reading , data storage and real-time online measurement of temperature,water depth,pH,conductivity,salinity,TDS,turbidity,DO,chlorophyll and blue-green algae at the same time.it also can be customized according to special requirements.

Technical Features

- Optional self-cleaning system to get accurate data for a long time.
- Can see and collect data in real time used with platform software.Calibrate and record 49,000 times test data(Can record 6 to 16 probes' data a time),can simply connected with the existing network for a simple combination.
- Equipped with all kinds of length of extension cables. These cables support internal and external stretch and 20 kg of bearing.
- Can replace the electrode in the field, maintenance is simple and quick.
- Can flexibly set the sampling interval time, optimize the work / sleep time to reduce the power consumption.

Software Functions

- Operation software of Windows interface has the function of settings,online monitoring,calibration and Historical data download.
- Convenient and efficient parameters settings.
- Real-time data and curve display can help users intuitively obtain the data of measured water bodies.
- Convenient and efficient calibration functions.
- Intuitively and accurately understanding and tracking the parameters' changes of the measured water bodies in a certain period through the Historical data download and curve display.

Application

- Multi-Parameter water quality online monitoring of rivers, lakes and reservoirs.
- Water quality online monitoring of drinking water source.
- Water quality online monitoring of ground water.
- Water quality online monitoring of sea water.

Mainframe Physical Indicators

Power Supply	12V	Measuring Temperature	0~50°C(non-freezing)
Power Dissipation	3W	Storage Temperature	-15~55°C
Communication protocol	MODBUS RS485	Protection Class	IP68
Size	90mm* 600mm	Weight	3KG

Standard Electrode Parameters

Depth	Principle	Pressure-sensitive Method
	Range	0-61m
	Resolution	2cm

	Accuracy	±0.3%
Temperature	Principle	Thermistor method
	Range	0°C~50°C
	Resolution	0.01°C
	Accuracy	±0.1°C
pH	Principle	Glass electrode method
	Range	0-14 pH
	Resolution	0.01 pH
	Accuracy	±0.1 pH
Conductivity	Principle	A pair of platinum gauze electrode
	Range	1us/cm-2000 us/cm(K=1) 100us/cm-100ms/cm(K=10.0)
	Resolution	0.1us/cm~0.01ms/cm(Depending on the range)
	Accuracy	±3%
Turbidity	Principle	Light scattering method
	Range	0-1000NTU
	Resolution	0.1NTU
	Accuracy	± 5%
DO	Principle	Fluorescence
	Range	0 -20 mg/L; 0-20 ppm; 0-200%
	Resolution	0.1%/0.01mg/l
	Accuracy	± 0.1mg/L < 8mg/l ; ± 0.2mg/L > 8mg/l
Chlorophyll	Principle	Fluorescence
	Range	0-500 ug/L
	Resolution	0.1 ug/L
	Accuracy	±5%
Blue-green algae	Principle	Fluorescence
	Range	100-300,000cells/mL
	Resolution	20 cells/mL
	Accuracy	±5%
Salinity	Principle	Converted by conductivity
	Range	0~1ppt (K=1.0),0~70ppt(K=10.0)
	Resolution	0.001ppt~0.01ppt(Depending on the range)
	Accuracy	±3%