

Water Quality Monitoring Equipment



TY-PH

Digital pH Sensor

Product Overview

The digital pH sensor adopts RS485 communication interface and ModbusRTU standard protocol. pH meter Built-in PT1000 temperature sensor and compensation method, IP68 protection grade, corrosion resistant shell, suitable for all kinds of harsh working environment.

pH meter can be widely used in scientific research institutes, environmental monitoring, environmental engineering, rivers and lakes, waterworks, petrochemical, biopharmaceutical, photovoltaic energy, food and beverage, aquaculture and municipal water supply and drainage, as well as third-party testing and other industries.



TY-PH Digital pH Sensor

Product Advantages

- Corrosion resistant shell; NPT upper thread interface, easy to install;
- High strength sensing bulb, not easy to damage, better accurate performance;
- The pH electrode can be replaced independently, which is convenient for later maintenance on site;
- The hydrogen ion sensing adhesive layer is thickened and the gel reference liquid is selected for better stability;
- Integrated solution grounding function, strong anti-interference; Double salt bridge design, medium reverse osmosis resistance, longer service life;
- The seepage interface is not easy to plug, and the pollution resistance is stronger;
- Better accurate performance, full scale measurement accuracy is better than the industry standard;
- With calibration record storage function, plug and play, no calibration required for the first use;

Technical Specification

Model No.	TY-PH
principle of measurement	glass electrode method
Measurement range	0~14PH
accuracy	<0.1PH
resolution	0.01PH
Sensitivity	57~59 mV/pH @ 25C
response time	<15S
Waterproof grade	IP68
communication interface	RS485, the standard Modbus protocol
Working Temperature	0~60 °C
working voltage	12~24VDC

Water Quality Monitoring Equipment



Product Overview

The digital conductivity sensor adopts RS485 communication interface and ModbusRTU standard protocol. Salinity and TDS parameters can be measured simultaneously; IP68 protection grade, corrosion resistant housing, suitable for all kinds of harsh working environment.

Conductivity electrode probe can be widely used in scientific research institutes, environmental monitoring, environmental engineering, rivers and lakes, waterworks, petrochemical, biopharmaceutical, photovoltaic energy, food and beverage, aquaculture and municipal water supply and drainage, as well as third-party testing and other industries.



TY-Cond Digital Conductivity Sensor

Product Advantages

- Corrosion resistant shell; NPT upper threaded interface for easy installation;
- Quadrupole measurement design to avoid ion cloud interference;
- Multiple curves of measurement factors are established, and the parameters can be measured: conductivity, temperature, salinity, TDS.
- Optimize the internal algorithm for better accuracy and performance.
- With calibration record storage function, plug and play, the first use without calibration;

Technical Specification

Model No.	TY-Cond
principle of measurement	Quadrupole electrode method
Measurement range	0~200000uS/cm(automatic range switching)
accuracy	<1%
resolution	0.01/0.1/1uS/cm(depending on range)
response time	<15S
Waterproof grade	IP68
communication interface	RS485, the standard Modbus protocol
Working Temperature	0~50 °C,
working voltage	12~24VDC

Water Quality Monitoring Equipment



Product Overview

The digital dissolved oxygen sensor adopts RS485 communication interface and ModbusRTU standard protocol. IP68 protection grade, corrosion resistant housing, suitable for harsh working environment.

Dissolved oxygen electrode probe can be widely used in scientific research institutes, environmental monitoring, environmental engineering, rivers and lakes, waterworks, petrochemical, biopharmaceutical, photovoltaic energy, food and beverage, aquaculture and municipal water supply and drainage, as well as third-party testing and other industries.



TY-DO Digital Dissolved Oxygen Sensor

Product Advantages

- Corrosion-resistant shell, NPT upper thread interface, easy to install;
- Fluorescent optical measurement technology, no electrolyte design, no flow rate requirements, no polarization time requirements;
- Dissolved oxygen electrode built-in optical attenuation compensation, longer sensor life;
- Optimize the internal algorithm for better accuracy and performance;
- With calibration record storage function, plug and play, the first use without calibration;

Technical Specification

Model No.	TY-DO
principle of measurement	fluorescence method
Measurement range	0~20mg/L
accuracy	<0.3mg/L
resolution	0.01mg/L
response time	<45S
Sensitivity	57~59 mV/pH @ 25C
Waterproof grade	IP68
communication interface	RS485, the standard Modbus protocol
Working Temperature	0~60 °C,
working voltage	12~24VDC

Water Quality Monitoring Equipment



Product Overview

The digital turbidity sensor adopts RS485 communication interface and ModbusRTU standard protocol. IP68 protection grade, titanium alloy corrosion resistant housing, suitable for all kinds of harsh working environment.

Turbidity electrode probe can be widely used in scientific research institutes, environmental monitoring, environmental engineering, rivers and lakes, waterworks, petrochemical, biopharmaceutical, photovoltaic energy, food and beverage, aquaculture and municipal water supply and drainage, as well as third-party testing and other industries.



TY-Turb Digital Turbidity Sensor

Product Advantages

- Titanium alloy corrosion resistant shell, NPT upper thread interface, easy to install;
- With self-cleaning function, program control, effectively prevent debris settlement;
- Digital modulation filter technology to eliminate the influence of ambient light;
- Long life LED light source, built-in optical attenuation compensation, longer sensor life;
- With calibration record storage function, plug and play, the first use without calibration;

Technical Specification

Model No.	TY-Turb
principle of measurement	transmission method
Measurement range	0~4000NTU
accuracy	<5%
resolution	0.01NTU
response time	<45S
Waterproof grade	IP68
communication interface	RS485, the standard Modbus protocol
Working Temperature	0~60 °C,
working voltage	12~24VDC

Water Quality Monitoring Equipment



Product Overview

TYPC-08 Intelligent portable detector is a universal controller, can be connected to a full range of intelligent sensors, real-time display of measured values and battery status, TYPC-08 interface is simple, simple operation. It can be equipped with various sensors to realize portable measurement applications, and can also be used for regular maintenance operations of online sensors; A variety of functions intimate design, fully waterproof design can be used in a variety of harsh environments to meet various application needs; Equipped with high-capacity lithium battery, cycle charging, more economical and environmentally friendly, standard Type-C interface design, universal accessories more convenient.

water quality analyzer can be widely used in scientific research institutes, environmental monitoring, environmental engineering, rivers and lakes, waterworks, petrochemical, biopharmaceutical, photovoltaic energy, food and beverage, aquaculture and municipal water supply and drainage, as well as third-party testing and other industries.



TYPC-08 Portable water quality analyzer

Product Advantages

- Intelligent identification, multi-purpose, plug and play;
- Automatic recognition of 18 types of digital sensors, extensible configuration ;
- 3.3"TFT display, backlight can be set manual or automatic adjustment mode;
- With digital sensor communication parameter setting function;
- With data storage function, can store 9999 pieces of information;
- With history view and data export function, support Type-C or Bluetooth connection computer;

Technical Specification

Model No.	TYPC-08
display interface	3.3" TFT display, 480X320 resolution, LED backlight manual/automatic adjustment
Battery	18650 Lithium battery *4,12Ah(50Wh)
service voltage	24VDC, maximum load capacity 3.3W
USB interface	Type-C port with A maximum load current of 5VDC 2.1A
Sensor Interface	1 RS485 port, intelligent sensor recognition
internal clocking	Power down hold, powered by lithium battery
data storage	Onboard Flash storage, can store 9999 standard data
data export	Screen historical data view, support serial port (Bluetooth /USB) historical data export
digital interface	USB to serial port, Bluetooth transparent serial port (support master/slave mode)
Operating environment requirements	Operating temperature -10~50°C, 10~90%RH; Storage temperature -20~60°C
Waterproof grade	IP65
secondary function	Low light lighting, automatic backlight, automatic shutdown, custom debugging function Storage data location support custom input, charging status indication, output overload protection

Water Quality Monitoring Equipment



TYPC-10

Multi-parameter water
quality analyzer

Product Overview

TYPC-10 is a universal water quality multi-parameter online monitor, which can connect intelligent sensor and multi-parameter sensor, display measurement value and sensor status in real time for sensor calibration and calibration, and has the functions of data storage and data transmission. The controller has a simple interface, easy operation, and can be used quickly by non-professionals.

water quality analyzer can be widely used in scientific research institutes, environmental monitoring, environmental engineering, rivers and lakes, waterworks, petrochemical, biopharmaceutical, photovoltaic energy, food and beverage, aquaculture and municipal water supply and drainage, as well as third-party testing and other industries.



TYPC-10 Multi-parameter water quality analyzer

Product Advantages

- Intelligent sensor can be arbitrarily combined, interchangeable, plug and play, automatic instrument identification;
- 7" color touch screen, Chinese operation interface, easy to operate;
- With data storage, viewing, export functions, can set the storage cycle;
- Output signal RS485 Modbus RTU standard protocol;
- Corrector with password protection function to prevent unauthorized personnel from misoperation;

Technical Specification

Model No.	TYPC-10
Measurement item	Simultaneously measure and display pH, Cond, Do, Turb, temperature, COD, NH3-N, etc., up to 8 measurement factors can be displayed simultaneously
display interface	7" color touch screen, Chinese operation interface, easy to operate
historical data	With data storage, view, export functions, can set the storage cycle
correcting feature	With pH, Cond, Do, Turb, temperature and other sensor calibration functions
Input contact	Up to 6 digital sensors can be connected
shell material	ABS
output	RS485 Modbus RTU Standard Protocol (HJ212-2017 Optional)
external dimension	235*185-117mm
Waterproof grade	IP65
working voltage	100~240VAC or 24VDC custom

Water Quality Monitoring Equipment

Measurement item and range

PH		Dissolved oxygen	
Measuring range	0.00 - 14.00 pH	Measuring range	0~20mg/L
Accuracy	±0.1 pH	Accuracy	±0.1mg/L; ±1%
Resolution	≤ 0.01pH	Resolution	0.01
Response time	< 10s	Response time	< 45s
Conductivity		Turbidity	
Measuring range	0-200mS/cm Customizable	Measuring range	0~4000NTU (Customizable)
Accuracy	±1%	Accuracy	±5%
Resolution	0.01/0.1	Resolution	0.01/0.1
Response time	< 10s	Response time	< 30s
Chlorophyll		Blue-green algae	
Measuring range	0~500.0ug/L (Chlorophyll a) 0~1000ppb (Rhodamine WT)	Measuring range	0~2,000,000cells/mL
Accuracy	±5%	Accuracy	±5%
Resolution	0.01/0.1	Resolution	0.01/0.1/1
Response time	< 10 秒	Response time	<10 秒
Oil in Water			
Measuring range	0-500mg/L	Resolution	0.01mg/L
Accuracy	≤ ±3%	Response time	≤ 15s

Residual chlorine		Suspended solids	
Measuring range	0-20ppm	Measuring range	0-1000mg/L
Accuracy	3%±1Digit	Accuracy	1 mg/L±1Digit
Resolution	0.01ppm	Resolution	0.1/1
Response time	< 45s	Response time	< 45s
COD		Ammonia nitrogen	
Measuring range	0~500mg/L; 0~500NTU	Measuring range	0.1~1000 mg/L
Accuracy	±7%	Accuracy	10% 或 0.1mg/L
Resolution	0.01	Resolution	0.01 mg/L
Response time	< 30 秒	Response time	< 30 秒
Fluoride		chloride	
Measuring range	0.1~1000 mg/L	Measuring range	0.1~20000 mg/L
Accuracy	≤ 5%	Accuracy	≤ 10%
Resolution	0.01mg/L	Resolution	0.01 mg/L
Response time	< 15 秒	Response time	< 15 秒
transparency			
Measuring range	0~2000cm	Resolution	0.1cm
Accuracy	0.1cm	Response time	≤ 10s

APPLICATION SCENARIOS



More Applications

scientific research institutes, environmental monitoring, environmental engineering, rivers and lakes, waterworks, petrochemical, biopharmaceutical, photovoltaic energy, food and beverage, aquaculture and municipal water supply and drainage, as well as third-party testing and other industries.



Rivers and Lakes



Chemical Park Outlet



Agricultural wastewater



drinking water



Wastewater Treatment



Aquaculture

