PROBEST

A TRUST-WORTHY

Water sensors manufacturer!

PROBEST PROFESSIONAL ISO9001 MANUFACTURER

Focus on development of sensors technology water analysis since 2013!









Fuzhou Probest Intelligent Technology Co., Ltd.

Company Brief Introduction



Why choose us *PROBEST?*

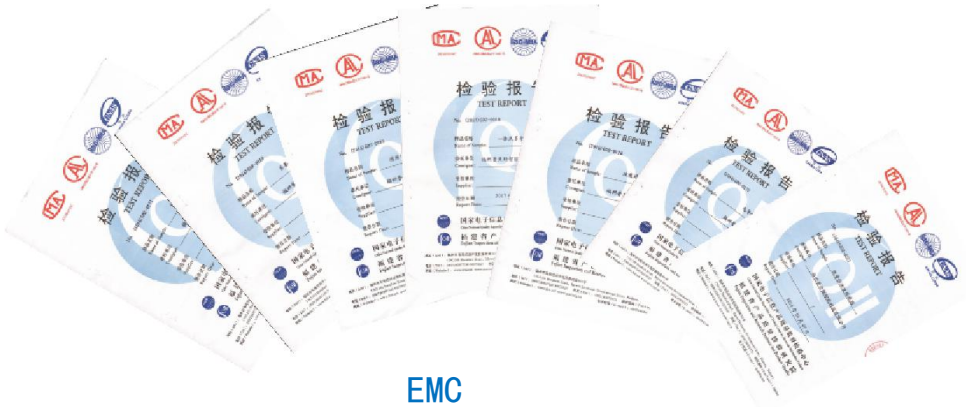
- A direct reliable ISO9001 authorized water analysis manufacturer.
- With strong 30+ professional R&D and 10+ QC team to ensure superior quality.
- Many patents and software copyrights to ensure products meet markets.
- Most important is our team, reliable boss, reliable PROBEST family.
- Worthy to be trusted to keep as long terms partners.



PROBEST
ISO9001 Certified

Certifications & Honors





EMC





Patent Certificate





Software Copyright

CATALOG

MUC-200 Multi-parameter Controller..... 1
UNI-20 Universal Transmitter..... 2
PH/ORP Transmitter..... 3
PPH-500 pH Sensor..... 4
PPH-100 PH Sensor..... 4
POP-500 ORP Sensor..... 5
POP-100 ORP Sensor..... 5
PPH-500A Digital pH sensor..... 6
Conductivity Transmitter..... 7
PEC-500 Conductivity Sensor..... 8
PEC-100 Conductivity Sensor..... 8
PEC-500A Digital Conductivity Sensor..... 9
PFDO-800 Dissolved Oxygen Online Analyzer..... 10
PFDO-700 Dissolved Oxygen Online Analyzer..... 11
PDCL-400 Residual Chlorine/Chlorine Dioxide Online Analyzer..... 12
PDCL-400A Digital Residual Chlorine Online Analyzer..... 13
PSS-800 SS（Sludge Concentration）On-line Analyzer..... 14
PTU-800 Turbidity Online Analyzer..... 15
PLTU-700 Low-Range Turbidity Online Analyzer..... 16
PCH-800 Chlorophyll Online Analyzer..... 17
PBA-800 Blue-Green Algae Online Analyzer..... 18
PDS-300 Transparency Online Analyzer..... 19
PWQ-2000 Water Quality Monitoring System..... 20
MUC-200 Split Multi-Parameter Online Analyzer..... 22
MP301 Multi-Parameter Analyzer..... 24
PUVNO3-900 Spectrometer Nitrate Online Analyzer..... 26
PINH3-900 Ammonia Nitrogen sensor Online Analyzer..... 27
PUVCOD-900 Spectrometer Organic OnLine Analyzer..... 28
PMI800 Series Portable Water Analyzer..... 29
PCM300-CODmn Permanganate Index Water Quality Online Monitor..... 31
PCM300-CODcr Chemical Oxygen Demand (CODcr) Water Quality Online Monitor..... 32
PCM300-NH3N Ammonia Water Quality Online Monitor..... 33
PCM300-TP Total Phosphorus Water Quality Online Automatic Monitor..... 34
PCM300-TN Total Nitrogen Water Quality Online Automatic Monitor..... 35
PB-060-AY Water Quality Monitoring Buoy..... 36

MUC-200 Multi-parameter Controller

Introduction



MUC-200 multi-parameter transmitter can simultaneously monitor multiple different parameters according to customers' different needs, including Temperature / PH / ORP / Conductivity/Dissolved oxygen/Turbidity/Sludge concentration/Chlorophyll/ Blue-green algae / UVCOD / UVNO3 / Ionic ammonia nitrogen / Transparency / Residual chlorine and other parameters. It is widely used in water quality monitoring in wastewater treatment plants, waterworks, water stations, surface water, and industrial fields.

The transmitter software interface parameter display is adaptive, the operation interface menu is simple to set up, the user operation is convenient; the sensor is plug and play; the electrode installation and replacement is fast and convenient; various data transmission modes are optional, and the data storage and export are available.

Features

- Up to 7 sensors can be connected to improve integration and reduce operating and maintenance costs.
- High versatility, all digital sensor interfaces are common, and analog sensors can be configured with different modules
- according to different sensor types;
- Sensor plugs and operates, quick and convenient electrode installation and replacement;
- With 4~20mA, MODBUS RS485, wireless transmission and other data transmission methods;
- 7-inch color touch screen, easy operate, easy learn, reliable system and low maintenance;
- With data storage and curve display function, master the dynamics of monitoring parameters;
- Automatically reminders error and alarm information, and realizes alarm signal uploading;
- Have three levels of management authority;
- Wall mounting or panel mounting;
- With optional wireless data transmission module.

Technical Specifications

Display	7 inch touch screen with LED strong backlight,can operate in direct sunlight
Power supply	AC power supply: 85~500VAC； DC power supply:9~36VDC；
Output	Standard 8 channels 4-20mA analog output. Program setting response parameters and response values
Relay	Four-way relay, program setting response parameters and response values
Communication protocol	Standard MODBUS RS485 communication for real-time transmission of measured value. Optional wireless communication method：4G:UDP/TCP NB:UDP
Main Material	PA66+GF25+FR (top cover); aluminum powder dusting (lower shell)
Storage Temperature	-20 to 70℃
Operation temperature	-15 to 60℃
Protective rate	IP65/ NEMA4X
Dimension	260mm*200mm*123.3mm (L×W×H)
Weight	About 2.0KG

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

UNI-20 Universal Transmitter

Introduction



The UNI-20 transmitter is highly versatile, and the existing digital and analog sensors from the company can be freely connected. Measurable parameters include pH, DO, ORP, Conductivity, Turbidity, SS, Chlorophyll, Blue-green algae, Residual chlorine, UVCOD, Ionic ammonia nitrogen, Nitrate nitrogen, Transparency and other parameters. UNI-20 can also choose single channel or dual channel configuration according to requirements. One transmitter can connect up to two sensors, reducing transmitter cost and installation space.

Features

- High versatility, all digital sensor interfaces are common, and analog sensors can be configured with different modules according to different sensor types;
- Optional dual channel: select single channel or dual channel configuration according to requirements;
- Realize sensor plug and play, quick and convenient electrode installation and replacement;
- Easy use, reliable results, interface operation instructions can reduce operational errors;
- LCD screen visualization operation, rich and comprehensive interface;
- With 4~20mA, MODBUS RS485 multiple data output modes;
- Automatically reminder error and alarm information, and realizes alarm signal uploading;
- The transmitter supports wall mounting/panel mounting/pinch installation;
- With time display, data storage;
- And historical data viewing function;
- Optional data wireless transmission module.

Technical Specifications

Display	160*160 LCD
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Main material	PA66+GF25+FR(Cover)；Aluminum alloy powder（Lower casing）
Storage temperature	-20- 70℃
Operation temperature	-15 - 60℃
Protective rate	IP65/ NEMA4X
Dimension	145*125*162mm(L*W*H)
Weight	1.35KG

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PH/ORP Transmitter



UNI-20



Analog-to-digital conversion module

Specifications

MODEL	UNI-20	PH/ORP conversion module
Measurement range	PH:0-14pH ORP:±2000mV	PH:0-14pH ORP:±2000mV
Temperature Compensation	PT1000	PT1000
Accuracy	PH：±0.1PH ORP：±5mV	PH：±0.1PH ORP：±5mV
Repeatability	PH：±0.1PH ORP：±2mV	PH：±0.1PH ORP：±2mV
Resolution	PH：0.01PH ORP：1mV	Floating point type
Display	160*160 LCD	/
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC	12VDC
Output	3-way 4-20mA	/
Relay	Three-way relays, programmed response parameter and response value.	/
Communication protocol	MODBUS RS485	MODBUS RS485
Main material	Aluminum alloy powder（Lower Casing);PA66+GF25+FR(Cover)；	Aluminum alloy
Storage temperature	-20- 70℃	-20- 60℃
Operation temperature	-15 - 60℃	0- 60℃
Protective rate	IP65/ NEMA4X	IP65
Dimension	145*125*162mm(L*W*H)	95*47*30mm(L*W*H)
Weight	1.35KG	250G

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PPH-500 pH Sensor

Specifications



Main material	Black Polypropylene，Ag/Agcl Reference Gel
Measurement range	0-14pH
Temperature range	0-80℃（Non-freezing）
Pressure range	≤0.6Mpa
Zero potential pH value	7±0.25pH（15mV）
Slope	≥95%
Internal Resistance	≤250MΩ
Alkaline error	0.2pH(1mol/L Na+ pH14)（25℃）
Response time	≤10 seconds (Reach 95% of the end value)(After stirring)
Dimension	Dia 28.7mm*Length195mm
Weight	Sensor：0.2KG
Protective rate	Sensor：IP68/NEMA6P
Cable length	Standard: 10 m, the maximum can be extended to 20M

PPH-100 PH Sensor

Specifications



Materials	PC body case
Measurement range	0-14pH
Applicable Temperature	0~45℃（Non-freezing）
Proof Pressure	≤0.6 MPa
Zero potential	7pH±0.3
Slope	≥96%（25℃）
Internal Resistance	MΩ（25℃）150MΩ - 200MΩ
Dimension	Diameter 30mm* Length 175mm
Mounting Dimensions	The top/bottom immobilization 3/4 "NPT taper thread
Cable length	5m standard cable（ultimate length ≤20m）

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

POP-500 ORP Sensor

Specifications



Main materials	Black Polypropylene,Ag/Agcl Reference Gel
Measurement range	-2000mV ~ +2000mV
Pressure range	≤0.6Mpa
Temperature range	0-80℃（Non-freezing）
Zero potential mV value	86±15mV （ 25℃ ） (in pH 7.00 solution containing saturated quinhydrone)
Range	≥170mV （ 25℃ ） (in PH 4 solution containing saturated quinhydrone)
Response time	≤10 sec (Reach 95% of the end value)(After stirring)
Dimensions	Sensor：Dia28.7mm*L 195mm
Weight	Sensor：0.2KG；
Protective rate	Sensor：IP68/NEMA6P；
Cable length	Standard: 10 m, the maximum can be extended to 20M

POP-100 ORP Sensor

Specifications



Main materials	PC body case
Measurement range	-1000mV ~ +1000mV
Pressure range	≤0.6Mpa
Applicable Temperature	0~60℃（Non-freezing）
Slope	≥95%（25℃）
Dimensions	Sensor：Dia30mm*L 175mm
Cable length	5m standard cable（ultimate length ≤20m）

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PPH-500A Digital pH sensor

Measurement Principle

The pH sensor uses a composite electrode in which a glass indicating electrode and a reference electrode are combined to measure the pH of the water.

Applications

It is widely used in pH monitoring in water treatment, hydrological monitoring, wastewater treatment, swimming pools, fish ponds and fertilizers, chemicals, and biology.

Features

- Power supply and output isolation design to ensure electrical safety.
- Power supply and communication chip built-in protection circuit, strong anti-interference ability.
- With a comprehensive protection circuit design, it can work reliably without additional equipment.
- The circuit part is designed inside the electrode, the environment is well tolerated, and the installation operation is easier.
- RS-485 transmission interface, MODBUS-RTU communication protocol, two-way communication, can receive remote commands.
- Output more electrode diagnostic information, more intelligent.
- Internal integrated memory, memory calibration and setting information can be memorized.



Technical Specifications

Sensor Main material	PPS Shell
Measurement range	0-14pH
Resolution	0.01 pH
Precision	±0.1 pH
Repeatability	±0.1 pH
Temperature compensation	0-60℃
Temperature resolution	0.1℃
Temperature precision	0.5℃
Pressure range	0-0.1Mpa
Applicable Temperature	0~60℃（Non-freezing）
Power supply	12V DC
Dimension	Dia. 26mm*Length166mm
Water Protective rate	Sensor：IP68/NEMA6P
Cable length	Standard: 10 m, the maximum can be extended to 200M

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

Conductivity Transmitter



UNI-20



Analog-to-digital conversion module

Specifications

MODEL	UNI-20	Conductivity conversion module
Measurement range	10-5000 us/cm	10-5000 us/cm
Accuracy	±1% or 1 us/cm, whichever is greater	±3%(FS)
Repeatability	±1%	±1%
Resolution	0.1us/cm~0.01 ms/cm（base on range）	Floating point type
Display	160*160 LCD	/
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC	12VDC
Output	3-way 4-20mA	/
Relay	Three-way relays, programmed response parameters and response value.	/
Communication protocol	MODBUS RS485	MODBUS RS485
Main material	PA66+GF25+FR(Cover)；Aluminum alloy powder（Lower casing）	Aluminum alloy
Storage temperature	-20- 70℃	-20- 60℃
Operation temperature	-15 - 60℃	0- 60℃
Protective rate	IP65/ NEMA4X	IP65
Dimension	145*125*162mm(L*W*H)	95*47*30mm(L*W*H)
Weight	1.35KG	250G

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PEC-500 Conductivity Sensor

Specifications



Main materials	Black polypropylene shell, glass platinum electrode
Measurement range	Conductivity：10-5,000 us/cm； Temperature：0-80℃
Pressure range	≤0.6Mpa
Response time	≤10 sec (Reach 95% of the end value)(After stirring)
Medium temperature	0~80℃（Non-freezing）
Dimensions	Sensor：Dia28.7mm*L 195mm
Weight	Sensor：0.2KG；
Protective rate	Sensor：IP68/NEMA6P；
Cable length	Standard: 10 m, the maximum can be extended to 20M

PEC-100 Conductivity Sensor

Specifications





Conductance cell	Two plate
Measurement Range	0.1-200 us/cm（Electrode constant k=0.1） 10-2,000 us/cm（Electrode constant k=1.0） 20-20,000 us/cm（Electrode constant k=10）
Materials	Main body material: 304L, Measuring parts: 304L installation parts: nylon（K=0.1 and k=1.0） Main body material: Polysulfone Measuring parts: Platinum electrode（ k=10） installation parts: ABS
Temperature Compensation	NTC10K
Pressure range	0.3Mpa
Storage conditions	Temperature: 0~60℃（Non-freezing）
Cable length	5m, can maximum be extended to 30M
Dimension	Diameter 13mm* Length below thread 59mm （K=0.1 and k=1.0） Diameter 23.3mm* Length below thread 60.5mm （K=10）

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PEC-500A Digital Conductivity Sensor

Measurement Principle

The conductivity sensor is a glass platinum electrode. In general, the voltage is in the form of a sine wave. Conductivity is determined by the ohmic formula based on voltage and current values.



Features

- Power supply and output isolation design to ensure electrical safety.
- Power supply and communication chip built-in protection circuit,strong anti-interference ability.
- With a comprehensive protection circuit design, it can work reliably without additional isolation equipment.
- The circuit part is designed inside the electrode, the environment is well tolerated, and the installation operation is easier.
- RS-485 transmission interface, MODBUS-RTU communication protocol, two-way.
- Communications, can receive remote commands.
- Output more electrode diagnostic information, more intelligent.
- Internal integrated memory, memory calibration and setting.
- Information can be memorized after power off.

Applications

- It is widely used in the monitoring of conductivity in water treatment, hydrological monitoring, wastewater treatment,
- It is widely used in the monitoring of conductivity in swimming pools
- It is widely used in the monitoring of conductivity in fish ponds
- The monitoring of conductivity in fertilizers, chemicals, and biology.

Technical Specifications

Main materials	PPS Shell
Measurement range	0.0~200.0 us/cm ; 0-2000us/cm ; 0.01-20.00ms/cm (optional)
Pressure range	0-0.1 Mpa
Accuracy	±2%F.S.
Resolution	0.1us/cm、1us/cm 、0.01 ms/cm（base on different range）
Repeatability	±1%
Temperature compensation	0-60℃
Power supply	12VDC
Communication Protocol	MODBUS RS485
Applicable Temperature	0~60℃（Non-freezing）
Dimension	Dia26mm*L 166mm
Protective rate	IP68/NEMA6P；
Mounting thread	3/4" thread
Cable length	Standard：10M，the maximum can be extended 200m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PFDO-800 Dissolved Oxygen Online Analyzer

Measurement Principle



PFDO-800 Dissolved Oxygen analyzer adopts fluorescence method to measure dissolved oxygen.The cap of the sensor is coated with a luminescent material. Blue light from an LED illuminates the luminescent chemical. The luminescent chemical instantly becomes excited and releases red light. The time and intensity of red light are inversely proportional to the concentration of oxygen molecules, So the concentration of oxygen molecules is calculated.

Features

- The sensor adopts new type of oxygen sensitive membrane, with NTC temperature compensated function, whose measurement result has good repeatability and stability.
- Won't produce oxygen consumption when measuring and no requirement of flow rate and stirring.
- Breakthrough fluorescence technology, without membrane and the electrolyte and almost not need maintenance.
- Built-in self-diagnosis function to ensure the accuracy of data.
- Factory calibration, not need calibration for a year and can carry out field calibration.
- Digital sensor, high anti-jamming capacity and far transmission distance.
- Standard digital signal output, can achieve integration and networking with other equipment without controller.
- Plug-and-play sensor, quick and easy installation.

Technical Specifications

Measurement range	DO：0-20 mg/L or 0-200% saturation；Temperature：0-45℃
Measurement Accuracy	DO:±3% or ±0.3 mg/L, whichever is greater ； Temperature：±0.5℃
Resolution	0.01mg/L
Repeatability	±0.3mg/L
Pressure range	≤0.3Mpa
Calibration	Air automated calibration,sample calibration
Main material	Body：SUS316L（fresh water），Titanium alloy（Ocean marine）； Cover：PPS+ glass fiber；Cable：PUR
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage temperature	-15-60℃
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor：Dia49.5mm*L 251.5mm，Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：1.4KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard:10m, the maximum may be extended to 100m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PFDO-700 Dissolved Oxygen Online Analyzer

Measurement Principle

PFDO-700 Dissolved Oxygen analyzer adopts fluorescence method to measure dissolved oxygen. The cap of the sensor is coated with a luminescent material. Blue light from an LED illuminates the luminescent chemical. The luminescent chemical instantly becomes excited and releases red light. The time and intensity of red light are inversely proportional to the concentration of oxygen molecules, So the concentration of oxygen molecules is calculated.



Features

- The sensor adopts new type of oxygen sensitive membrane, with NTC temperature compensated function, whose measurement result has good repeatability and stability.
- Won't produce oxygen consumption when measuring and no requirement of flow rate and stirring.
- Breakthrough fluorescence technology, without membrane and the electrolyte and almost not need maintenance.
- Built-in self-diagnosis function to ensure the accuracy of data.Plug-and-play sensor, quick and easy installation.
- Factory calibration, not need calibration for a year and can carry out field calibration.
- Digital sensor, high anti-jamming capacity and far transmission distance.
- Standard digital signal output, can achieve integration and networking with other equipment without controller.

Applications

- DO online monitoring of different technological processes such as regulating reservoir, biochemical pool and effluent of sewage treatment plant.
- DO online monitoring of water plant, surface water, industrial process water and aquaculture and etc.

Technical Specifications

Measurement range	DO：0-20 mg/L or 0-200% saturation；Temperature：0-45℃
Measurement Accuracy	DO:±3% or ±0.3 mg/L, whichever is greater ； Temperature：±0.5℃
Resolution	0.01mg/L
Repeatability	±0.3mg/L
Pressure range	≤0.3Mpa
Calibration	Air automated calibration,sample calibration
Main material	Body：SUS316L（fresh water）；Cover：PPS+ glass fiber；Cable：PUR
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage temperature	-15-60℃
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor：Dia49.5mm*L 251.3mm,Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：1.4KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard:10m, the maximum may be extended to 100m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PDCL-400 Residual Chlorine/Chlorine Dioxide Online Analyzer

Measurement Principle



PDCL-400 residual chlorine/chlorine dioxide adopts advanced principle of constant voltage to measure residual chlorine//chlorine dioxide in water.The principle is adding a stable electric potential between polarized electrode and reference electrode to make different measured components produce different current intensity.The analyzer calculates the concentration of the measured component by collecting and analyzing current signal.

PDCL-400 residual chlorine/chlorine dioxide has simple structure,easy to clean and replace.Meanwhile,the electrode needn't to replace membrane and reagent when operating and the maintenance is simple to ensure the stability,reliability and accuracy of instrument for long-term working.

Application

- Residual chlorine/chlorine dioxide measurement of waste water and water treatment of water plant,drinking water distribution network,swimming pool and hospital and etc.

Technical Specification

Principle	Constant voltage method
Measurement range	0-20 mg/L
Calibration	two-point calibration
Sensitivity	78%-155%
Temperature compensation	Manual or automatic temperature compensation
Temperature	2%/℃
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Communication	MODBUS RS485
pH range of sample	5-8
Flow rate	30 - 60 L/h
Operating temperature	0-50℃（Non-freezing）
Electrode dimensions	Dia 13.5mm*L 178.5mm
Electrode materials	316LStainless steel shell
Cable length	Standard 5m cable, the maximum can be extended 20m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PDCL-400A Digital Residual Chlorine Online Analyzer

Measurement Principle



The PDCL-400A digital residual chlorine/chlorine dioxide sensor uses advanced constant voltage principles to measure residual chlorine/chlorine dioxide in water. The method utilizes a stable potential between the polarized electrode and the reference electrode at which different measured components produce different current intensities. The meter calculates the concentration of the measured component by collecting and analyzing the current signal.

Features

- Easy clean and replace.
- Electrode no need to replace membrane and reagent when operating and the maintenance is simple to ensure the stability,reliability and accuracy of instrument for long-term working.
- Power supply and output isolation design to ensure electrical safety
- Power supply and communication chip built-in protection circuit, strong anti-interference ability
- With a comprehensive protection circuit design, it can work reliably without additional isolation equipment
- The circuit is built in the inside of the electrode, the environment is well tolerated, and the installation operation is easier.
- RS-485 transmission interface, MODBUS-RTU communication protocol, two-way communication, can receive remote commands
- Communication protocol is simple and practical, extremely convenient to use
- Output more electrode diagnostic information, more intelligent
- Internal integrated memory, memory calibration and setting information can be memorized after power off

Applications

- For chlorine water, chlorine dioxide dioxide measurement in swimming pools, drinking water distribution networks, swimming pools

Technical Specifications

Principle	Constant voltage method
Measurement range	0-20 mg/L
Calibration	two-point calibration
Sensitivity	78%-155%
Temperature compensation	Manual or automatic temperature compensation
Temperature coefficient	2%/℃
Power supply	12V DC
Communication protocol	MODBUS RS485
Flow rate	30 - 60 L/h
Operating temperature	0-50℃（Non-freezing）
Electrode dimensions	Dia 13.5mm*L 178.5mm
Mounting Dimensions	PG13.5
Electrode materials	316LStainless steel shell
Cable length	Standard 5M cable

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PSS-800 SS（Sludge Concentration）On-line Analyzer

Measurement Principle

PSS-800 SS (Sludge Concentration)Sensor is based on the method of combination of infrared absorption scattered light.e infrared light emitted by the light source is scattered by the suspended particles in the sample, and finally converted into an electrical signal by a photodetector, and the sludge concentration of the sample is obtained after analog and digital signal processing.



Features

- The sensor adopts dual-beam infrared scattered light.
- photometer detection technology and has good repeatability and stability.
- Built-in self-diagnosis function to ensure the accuracy of data.Plug-and-play sensors,quick and easy installation.
- Optional cleaning brush of automatic cleaning function to reduce the maintenance of sensor.
- Use ISO7027 Standard Method (Infrared light scattering technique) to eliminate effects of sample color.
- Digital sensor,high anti-jamming capacity and far transmission distance.
- Standard digital signal output,can achieve integration and networking with other equipment without controller.

Applications

- Sludge concentration of technological process of sewage treatment plant.
- Online monitoring of industrial process water and Suspended solids (sludge concentration) of waste water treatment process.

Technical Specifications

Measurement range	0.01-20000 mg/L，0.01-45000 mg/L，0.01-120000 mg/L
Measurement accuracy	Less than the ±5% of measured value. (Depending on the homogeneity of sludge)
Resolution	0.01~1mg/L,base on range
Repeatability	±2%
Pressure range	≤0.4Mpa
Flow rate	≤2.5m/s、8.2ft/s
Calibration	Sample Calibration,Slope Calibration
Main material	Body：SUS316L (fresh water)，Titanium alloy (marine)； Cover：POM；Cable：PUR
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor: Dia 60mm*Length 261mm,Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：1.65KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard:10m,the maximum may be extended to 100m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PTU-800 Turbidity Online Analyzer

Measurement Principle

PTU-800 Turbidity Sensor is based on the method of combination of infrared absorption scattered light.Infrared light which the photosource sends out scattered by suspended particles in the sample.And finally converted to electrical signals by photoelectric detector and getting the turbidity valueof the sample after treatment by analog and digital signals.



Features

- The sensor adopts dual-beam infrared scattered light photometer detection technology and has good repeatability and stability.
- Built-in self-diagnosis function to ensure the accuracy of data.
- Optional cleaning brush of automatic cleaning function to reduce the maintenance of sensor.
- Digital sensor,high anti-jamming capacity and far transmission distance.
- Use ISO7027 Standard Method (Infrared light scattering technique) to eliminate effects of sample color.
- Standard digital signal output,can achieve integration and networking with other equipment without controller.
- Plug-and-play sensors,quick and easy installation.

Applications

- Turbidity online monitoring of water inlet, settling basin of water plant.
- Turbidity online monitoring of sewage plant, industrial process water and waste water treatment.

Technical Specifications

Measurement range	Turbidity：0.01-100 NTU，0.01－4000 NTU
Measurement accuracy	Less than±2% of the measured reading or ±0.1NTU,whichever is greater
Resolution	0.01~0.1NTU,base on range
Repeatability	±2%
Pressure range	≤0.4Mpa
Flow rate	≤2.5m/s、8.2ft/s
Calibration	Sample calibration,Slope calibration
Main material	Body：SUS316L（fresh water），Titanium alloy (marine)； Cover：POM；Cable：PUR
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Measuring temperature	0-45℃（Non-freezing）
Dimension	Sensor：Dia 60mm*L261mm;Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：1.65KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard:10m,the maximum may be extended to 100m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PLTU-700 Low-Range Turbidity Online Analyzer

Measurement Principle

Incident light of PLTU-700 Low-Range Sensor is produced by the tungsten light whose color temperature's absolute temperature is between 2200 degrees to 3000 degrees.Guiding the parallel light assembled by the tungsten light down into the water sample of the sensor,the light is scattered by suspended particles in water samples,and the scattered light that is with a ninety degree angle to the angle of incidence is received by the silicon photocell receiver in the water sample,measuring the turbidity by calculating the relationship with 90-degree scattered light and the incident beam.



Features

- Stable data and good repeatability.
- Simple clean and maintenance.
- A scattering turbidity meter with continuous readings, designed for low-range turbidity monitoring.
- Plug-and-play sensors,quick and easy installation.

Applications

- Turbidity online monitoring of filtration of water plant, product Water and direct drinking water system.
- Turbidity online monitoring of recirculating cooling water and filter water in all kinds of industrial production and water reuse system.

Technical Specifications

Measurement range	0.001-100 NTU
Measurement Accuracy	±2% of the reading or ±0.015NTU when the range is 0.001-40NTU,whichever is greater; ±5% of the reading when the range is 40-100NTU
Resolution	0.001~0.1NTU,base on range
Repeatability	±2%
Water flow	300ml/min≤X≤700ml/min
Calibration	Standard solution calibration,water ample calibration,zero calibration
Pipe Fitting	Inlet：1/4NPT；Outlet：1/2NPT
Main material	Body：ABS + SUS316L； Seal: Butyl Cyanide Rubber；Cable：PUR
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage temperature	-15-60℃
Measuring temperature	0-45℃（Non-freezing）
Dimension	Sensor：304 *207*392.5mm(L*W*H),Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：2.1KG；Transmitter：1.35KG
Protective rate	Sensor：IP65(Indoor)；Transmitter：IP65/ NEMA4X
Cable length	Standard: 3m,not recommend to extend.

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PCH-800 Chlorophyll Online Analyzer

Measurement Principle

The principle of PCH-800 Chlorophyll Sensor is using the characteristics of chlorophyll A who has absorption peaks and emission peaks in the spectrum., and emits monochromatic light of a specific wavelength to the water. The light intensity of chlorophyll A is proportional to the content of chlorophyll A in the water.



Features

- Based on the Fluorescent measuring target parameter of pigment,can be identified before affected by potential water bloom.
- Without extraction or other treatment, rapid detection to avoid the impact of long shelving the water sample.
- Digital sensor,high anti-jamming capacity and far transmission distance.
- Standard digital signal output,can achieve integration and networking with other equipment without controller.
- Plug-and-play sensors,quick and easy installation.
- Reverse polarity protection of sensor power.

Applications

- Chlorophyll online monitoring of water plant inlet,drinking water source and aquaculture and etc.
- Chlorophyll online monitoring of different water bodies,such as surface water,landscape water and seawater and etc.

Technical Specifications

Measurement range	0-500 ug/L
Measurement Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine WT Dye
Resolution	0.01ug/L
Repeatability	±3%
Pressure range	≤0.4Mpa
Calibration	Deviation value calibration,slope Calibration
Requirements	Suggest a multipoint monitoring for the distribution of Blue-Green Algaein water is very uneven.Water turbidity is below 50NTU.
Main material	Body：SUS316L（fresh water），Titanium alloy（marine）； Cover：POM；Cable：PUR
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage temperature	-15-50℃
Measuring temperature	0- 45℃（Non-freezing）
Dimension	Sensor：Dia38mm*L 245.5mm Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：0.8KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard:10m,the maximum may be extended to 100m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PBA-800 Blue-Green Algae Online Analyzer

Measurement Principle

The principle of PBA-800 Blue-Green Algae Sensor is using the characteristics of cyanobacteria who has absorption peaks and emission peaks in the spectrum,and emits monochromatic light of a specific wavelength to the water. The light intensity of Blue-Green Algae is proportional to the content of Blue-Green Algae in the water.



Features

- Based on the Fluorescent measuring target parameter of pigment, can be identified before affected by potential water bloom.
- Without extraction or other treatment, rapid detection to avoid the impact of long shelving the water sample.
- Digital sensor, high anti-jamming capacity and far transmission distance.
- Standard digital signal output, can achieve integration and networking with other equipment without controller.
- Plug-and-play sensors, quick and easy installation.

Applications

- Blue-green algae online monitoring of water plant inlet, drinking water source, aquaculture and etc.
- Blue-green algae online monitoring of different water bodies such as surface water.scenic water and etc.

Technical Specifications

Measurement range	200—300,000cells/mL
Measurement Accuracy	±10% of the signal level corresponding value of 1ppbRhodamine WT Dye
Resolution	25cells/mL
Repeatability	±3%
Pressure range	≤0.4Mpa
Calibration	Deviation value calibration,slope Calibration
Requirements	Suggest a multipoint monitoring for the distribution of Blue-Green Algaein water is very uneven.Water turbidity is below 50NTU.
Main material	Body：SUS316L + PVC；Cover：POM；Cable：PUR
Power supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Communication protocol	MODBUS RS485
Storage temperature	-15-50℃
Measuring temperature	0-45℃（Non-freezing）
Dimension	Sensor：Dia38mm*L 245.5mm Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：0.8KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard:10m,the maximum may be extended to 100m
Relay	Three-way relays, programmed response parameter and response value.

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PDS-300 Transparency Online Analyzer

Measurement Principle

Water body transparency is an important indicator for determining the black odor level of black odorous water bodies. The PDS-300 sensor is based on the combined infrared absorption and scattering method. The infrared light emitted by the light source is scattered by the water sample. Finally, the electrical signal detected by the photoelectric monitor is converted into a transparency value.



Features

- Built-in self-diagnosis function to ensure accurate data.
- Reverse polarity protection of sensor power.
- With time display, data storage and historical data viewing functions.
- The sensor adopts dual-beam infrared scattering photometer detection technology, which has good repeatability and stability.Optional data wireless transmission module.
- Optional cleaning brush automatic cleaning function, greatly reducing the amount of sensor maintenance.
- Digital sensor with strong anti-interference ability and long transmission distance.
- Standard digital signal output, which can be integrated and networked with other equipment without a transmitter.
- On-site installation of the sensor is convenient and quick, enabling plug and play.
- The sensor RS485 A / B end is connected to the power supply for protection.

Applications

- Transparency is an important indicator for determining the black odor level of black odorous water bodies, and is especially suitable for online monitoring of black odorous water bodies;
- Applicable to online monitoring of water body transparency of surface water and aquaculture industries in cities such as inland rivers, lakes and reservoirs.

Technical Specifications

Measuring Range	2-100cm
Measurement Accuracy	±0.3cm or value's 5%
Pressure range	≤0.4Mpa
Flow rate	≤2.5m/s、8.2ft/s
Power supply	AC Power：85-500VAC （50/60HZ） DC Power：9~36VDC
Output	3 way 4-20mA
Relay	Three-way relay, program setting response parameter and response value
Protocol	MODBUS RS485
Storage temperature	-15 to 50℃
Operating temperature	0 to 45℃(Not freezing)
Size	Sensor：D60mm*L256mm Transmitter：145×125×162mm（L×W×H）
Weight	Sensor：1.65KG；Transmitter：1.35KG
Protection class	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard 10m cable, can be extended to 100m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PWQ-2000 Water Quality Monitoring System

Introduction



PWQ-2000 water quality monitoring system is a system that integrates pipe network water quality monitoring sensors, data processing units, and internal water flow pipeline units. It can continuously measure temperature, PH, turbidity, disinfectant indicators, and can extend water quality parameters such as conductivity and ORP. The disinfectant index adopts the DPD colorimetric method. The three disinfectant indexes of residual chlorine, total chlorine, and chlorine dioxide are optional. The cuvette has an automatic cleaning function, which greatly reduces the amount of maintenance and improves the stability of the measurement data. Need to purchase reagents locally.

The turbidity adopts the 90 ° scattered light technology of EPA principle, adopts LED light source, low power consumption and long life of light source.

Features

- Integrated design, save space.
- The internal wiring and waterway are highly integrated, and users only need to connect the power supply and enter and exit the water.
- The internal waterway design can try to ensure that the water flow is stable during the internal measurement process of the equipment, and ensure the monitoring data is accurate.
- DPD colorimetric analyzer, with automatic cleaning function, reducing maintenance.
- With 7-inch color touch screen, the operation interface is simple, easy operation, reliable system, low maintenance.
- With data storage and curve display functions, master the dynamic changes of water quality.
- With automatic fault diagnosis function, abnormal information recording and uploading functions, such as parts failure, over-range alarm, over-standard alarm and other information.
- Historical data download and curve display can intuitively and accurately understand and track the changes of water parameters within a certain period.
- With three-level management authority.Optional wireless data transmission module.

Applications

- Water quality monitoring of waterworks and water supply network.
- Detection of water quality standards for secondary water supply in the community.
- Real-time water quality monitoring of swimming pool, SPA, etc,Rural tap water quality monitoring.

Specifications

Display	7inch LED touch screen, can operate in direct sunlight
Power	220VAC,50Hz/60 Hz
Output	8 way 4-20mA analog output. Program setting response parameters and response values
Relay	Four relays, program setting response parameters and response values
Communication Protocol	Standard MODBUS RS485 communication function, real-time transmission of measured values. Optional wireless communication method: 4G: UDP / TCP NB: UDP
Storage & Operation Temp.	Storage temperature:0～60℃,Operation temperature:0~45℃ (non-frozen)
Protection Level	IP54
Size	340×450×900mm (L × W × H)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

Monitoring parameter index

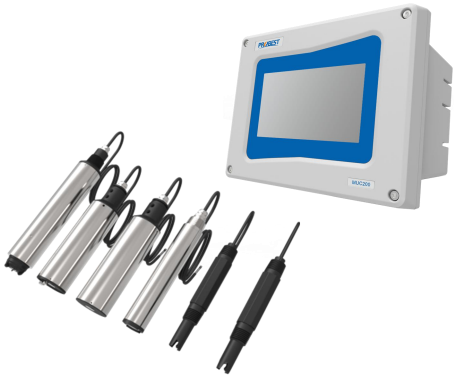
Residual chlorine / total chlorine	**Principle**	DPD Standard colorimetry
	Range	0-5ppm
	Resolution	0.01ppm
	Accuracy	±5% reading or ± 0.03ppmCl2, whichever is greater
chlorine dioxide	**Principle**	DPD Standard colorimetry
	Range	0-5ppm
	Resolution	0.01ppm
	Accuracy	±5% reading or ± 0.05ppm ClO2, whichever is greater
pH	**Principle**	Glass electrode method
	Range	0-14 pH
	Resolution	0.01 pH
	Accuracy	±0.1 pH
ORP	**Principle**	Glass electrode method
	Range	-2000mV~2000mV
	Resolution	1mV
	Accuracy	±5mV
Conductivity	**Principle**	Conductivity cell method
	Range	10us/cm-5000 us/cm（K=1）
	Resolution	0.1uS/cm~0.01mS/cm（Depends on range）
	Accuracy	±1% or 1 us/cm，greater one
Turbidity	**Principle**	Light scattering
	Range	0-100NTU
	Resolution	0.001~0.1NTU（Depends on range）
	Accuracy	0.001-40NTU: reading ±2% or ±0.015NTU，greater one； 40-100NTU: reading ±5%
Temp	**Principle**	Thermistor method
	Range	0℃～80℃
	Resolution	0.1℃
	Accuracy	±0.5℃

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

MUC-200 Split Multi-Parameter Online Analyzer

Introduction

The multi-parameter transmitter can realize online monitoring of multiple different parameters at the same time through optional sensors according to different needs of customers, including temperature / PH / ORP / conductance / dissolved oxygen / turbidity / sludge concentration / chlorophyll / blue-green algae / UVCOD / UVNO3 / ion ammonia nitrogen / transparency / residual chlorine and other parameters. The transmitter software interface parameter display realizes self-adaptation,and has data storage and export.



Features

- Up to 7 sensors could be connected to improve integration and reduce operation and maintenance costs.
- Universal, all digital sensor interfaces are common, analog sensors can be configured according to different sensor types
- Quick plug and work, electrode installation and replacement is quick and convenient.
- Easy use and reliable results, interface operation instructions can reduce operational errors.
- With 4~20mA, MODBUS RS485 multiple data output modes.
- pH, ORP, conductivity sensor easy cleaning, and the balance speed is fast, with good repeatability and stability.
- SS: Dissolved oxygen sensor adopts breakthrough fluorimetry technology, basically no maintenance, and comes with NTC temperature compensation function.
- High-precision turbidity adopts 90° light scattering method, flow-through measurement, data is stable and reproducible;
- The turbidity, suspended solids/sludge concentration sensor uses the ISO7027 standard method (infrared light scattering technology) to eliminate the influence of sample color and optional cleaning brush function.
- The chlorophyll sensor and the blue-green algae sensor are based on the fluorescence measurement target parameters of the pigment, which can be identified before potential blooms are affected, no need extraction or other treatment, rapidly detection to avoid the effects of leaving the water sample.

Applications

- Online monitoring of multi-parameter water quality in surface water, drinking water sources and aquaculture; Online monitoring of water quality in wastewater treatment plants, industrial sectors and Marine sea water quality.

Technical Specifications

Display	7 inch touch screen with LED strong backlight, can operate in direct sunlight
Power supply	AC power supply: 85~500VAC ; DC Power：9~36VDC
Output	Standard 8 channels 4-20mA analog output. Program setting response parameters and response values
Relay	Four-way relay, program setting response parameters and response values
Communication protocol	Standard MODBUS RS485 communication for real-time transmission of measured value. Optional wireless communication method：4G:UDP/TCP NB:UDP
Main Material	PA66+GF25+FR (top cover); aluminum powder dusting (lower shell)
Storage Temperature	-20 to 70℃
Operation temperature	-15 to 60℃
Protective rate	IP65/ NEMA4X
Dimension	260mm*200mm*123.3mm (L×W×H)
Weight	About 2.0KG

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

Standard Electrode Parameters

Temperature	**Principle**	Thermistor method
	Range	0℃~80℃
	Accuracy	±0.5℃
pH Sensor	**Principle**	Glass electrode method
	Range	0-14 pH
	Accuracy	±0.1 pH
	Dimension	28.7mm*195mm（Φ*L）
EC Conductivity Sensor	**Principle**	Conductivity cell method
	Range	10us/cm-5000 us/cm（K=1）
	Accuracy	±1% or 1 us/cm, whichever is greater
	Dimension	28.7mm*195mm（Φ*L）
DO (Dissolved Oxygen)	**Principle**	Fluorescence
	Range	0 -20 mg/L；0-200% Saturation
	Accuracy	±3% or ±0.3 mg/L, whichever is greater
	Dimension	49.5mm*251.5mm（Φ*L）
Residual Chlorine Sensor (electrode method)	**Principle**	constant voltage method
	Range	0-20 mg/L
	Sensibility	78%-155%
	Dimension	13.5mm*178.5mm（Φ*L）
Turbidity Sensor (electrode method)	**Principle**	Light scattering method
	Range	0.01-100NTU；0.01-4000NTU
	Accuracy	Less than ±2% of the measure reading or ±0.1 NTU, whichever is greater
	Dimension	60mm*261mm（Φ*L）
Suspended Solids Sensor SS Sensor Sludge Concentration	**Principle**	Fluorescence
	Range	0.01-20000mg/L；0.01-45000mg/L；0.01-120000mg/L
	Accuracy	Less than the ±5% of measured value. (Depending on the homogeneity of sludge)
	Dimension	60mm*261mm（Φ*L）
Chlorophyll Sensor	**Principle**	Fluorescence
	Range	0-500 ug/L
	Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine WT Dye
	Dimension	38*245.5mm（Φ*L）
Blue-green algae BA Sensor	**Principle**	Fluorescence
	Range	200-300,000cells/mL (ODM Available)
	Accuracy	±10% of the signal level corresponding value of 1ppb Rhodamine WT Dye
	Dimension	38*245.5mm（Φ*L）
UVCOD Sensor	**Principle**	Spectroscopy
	Range	0~2000mg/l COD (2mm optical path),0~1000mg/l COD (5mm optical path) 0~90mg/l COD (50mm optical path)
	Accuracy	±5%
	Dimension	69*380mm（Diam*L）
NO3 Sensor	**Principle**	Spectroscopy
	Range	0.1~40mg/l (2mm optical path)
	Accuracy	±5%
	Dimension	69*380mm（Diam*L）
Ammonia nitrogen Sensor	**Principle**	Ion selection
	Range	NH4N：0.1 to 1000 mg/L
	Accuracy	NH4N：±5 % or ± 0.2 mg/L bigger;K+：±5 % or ±0.2 mg/L（Optional） Temp：±0.5℃ ; pH：±0.1 pH
	Dimension	55mm×342mm（Φ*L）

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

MP301 Multi-Parameter Analyzer

Introduction



MP301 multi-parameter online analyzer: suitable for long-term on-line online monitoring, measuring up to 7 parameters simultaneously, including: Temperature, Depth, pH, ORP, Conductivity & Salinity & TDS, Turbidity, DO, Chlorophyll, Blue-green algae, Ammonia nitrogen, Nitrate nitrogen, Chloride ions, Fluoride ions. Optional accessories such as bluetooth module, battery pack, and handheld communicator are also available for easy portable measurement.

HDC-100A Communicator: In order to make the MP301 integrated multi-parameter analyzer complete data reading, parameter setting and calibration of the analyzer without PC, and it can be applied to handheld and portable applications. On the occasion, the company has developed a HDC-100A handheld device for use with it. Built-in GPS receiver; with bluetooth function; with USB interface and data storage function; designed with ergonomic curve, rubber gasket, suitable for hand-held operation, easy to grasp in wet environment.

Features



- The host can flexibly set the sampling interval, optimize the working/sleep time, and reduce the overall power consumption. It can be applied to battery power, solar power, and mains power supply.
- SensorRS485 A/B terminal is connected to power supply protection.
- The host can select bluetooth communication function to realize data transmission via bluetooth.
- Optional handheld communicator, and bluetooth wireless communication mode with the handheld communicator, data viewing, calibration is convenient, and can realize handheld applications.
- The host has a data storage function, and the amount of stored data is 100,000.
- Optional self-cleaning system allows the product to obtain accurate data for a long time.
- The electrode can be replaced directly in the field, and the maintenance is simple and fast.
- Sensor power supply positive and negative reverse connection protection.
- The host has LED lights to display the current running status of the host and the working status of bluetooth.
- Standard ModbusRS-485 digital signal output, can be connected with third-party data loggers or remote devices for integration and networking;With built-in battery, optional battery to achieve battery power in a short time; purchase in your local market.

Software Functions

- Operation software of Windows interface has the function of settings,online monitoring,calibration and Historical data download,convenient and efficient parameters settings.Convenient and efficient calibration functions.
- Real-time data and curve display can help users intuitively obtain the data of measured water bodies.
- 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, ground water and sea water.

Mainframe Physical Indicators

Power Supply	12VDC	**Measuring Temperature**	0~45℃（non-freezing）
Power Dissipation	3W	**Storage Temperature**	0~50℃（non-freezing）
Communication protocol	MODBUS RS485	**Protection Class**	IP68
Size	Diameter 90*Length 640.5mm	**Weight**	3KG
Maximum withstand pressure depth	30M(With ion selective electro de: 10 m）	**Battery capacity**	8 sections, 8C, 3.6V lithium battery

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

Communicator Physical Indicators

Display	3.5-inch color display screen with adjustable backlight
Data storage	8G data storage space
Material	ABS+PC
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Protection level	IP67
Operating & Storage temperature	0~50℃（Non-freezing）,-15~60℃
Size&Weight	203*100*43mm,0.5KG

Standard Electrode Parameters

pH Sensor :	
Principle	Glass electrode method
Range	0-14 pH
Resolution	0.01 pH
Accuracy	±0.1 pH
Conductivity sensor :	
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%
DO sensor :	
Principle	Fluorescence
Range	0 -20 mg/L；0-20 ppm；0-200%
Resolution	0.1%/0.01mg/l
Accuracy	±3% or ±0.3 mg/L, whichever is greater
Chlorophyll sensor :	
Principle	Fluorescence
Range	0-500 ug/L
Resolution	0.01 ug/L~0.1 ug/L, Depending on range
Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine WT Dye
Ammonia nitrogen Sensor :	
Principle	Ion selection
Range	0.1~100mg/L-N
Resolution	0.01mg/L-N
Accuracy	±10% or ±2mg/L
Chloride Sensor :	
Principle	Ion selection
Range	3~1000mg/L
Resolution	0.01~1mg/L
Accuracy	±10% or ±2mg/L
Depth (Pressure) :	
Principle	Pressure-sensitive Method
Range	0-61m(Maximum withstand pressure depth:30M）
Resolution	2cm
Accuracy	±0.3%

Temperature :	
Principle	Thermistor method
Range	0℃~50℃
Resolution	0.01℃
Accuracy	±0.5℃
ORP Sensor :	
Principle	Glass electrode method
Range	-1000mV ~+1000mV
Resolution	1mV
Accuracy	±5mV
Turbidity sensor:	
Principle	Light scattering method
Range	0-1000NTU
Resolution	0.1NTU
Accuracy	± 5% or 0.3NTU, whichever is greater
Blue-green algae sensor :	
Principle	Fluorescence
Range	200-300,000cells/mL
Resolution	25cells/mL
Accuracy	±10% of the signal level corresponding value of 1ppb Rhodamine WT Dye
Nitrate nitrogen Sensor :	
Principle	Ion selection
Range	0.5~100mg/L-N
Resolution	0.01mg/L-N
Accuracy	±10% or ±2mg/L
Fluoride Sensor :	
Principle	Ion selection
Range	0.5~1000mg/L
Resolution	0.01~1mg/L
Accuracy	±10% or ±2mg/L

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PUVNO3-900 Spectrometer Nitrate Online Analyzer

Measurement Principle

NO3 absorbs at 210 nm UV light. When the Spectrometer NO3 probe is working, the water sample flows through the slit. When the light from the light source in the probe passes through the slit, part of the light is absorbed by the sample flowing in the slit, and the other light passes through the sample and reaches the other side of the probe. Calculate the concentration of nitrate.



Features

- Probe direct immersion measurement without sampling and pre-processing.
- No chemical reagents, no secondary pollution.
- Short response time enables continuous measurement.
- The sensor has an automatic cleaning function that reduces maintenance.
- Sensor power supply positive and negative reverse connection protection
- Sensor RS485 A/B terminal is connected to the power supply protection
- Wireless data transmission module for optional.
- Spectrometer NO3 Probe direct immersion measurement without sampling and pre-processing.

Applications

- Drinking water / surface water / industrial production process water / sewage treatment, etc..
- Continuously monitor the concentration of nitrate dissolved in water, especially for monitoring sewage aeration tanks, controlling denitrification process.

Technical Specifications

Measuring Range	0.1～40.0mg/L（2mm）
Accuracy	±5%
Repeatability	± 2%
Resolution	0.01 mg/L
Pressure range	≤0.4Mpa
Sensor material	Body：SUS316L（fresh water），Titanium alloy（Ocean marine）；Cable PUR
Power Supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage temperature	-15-50℃
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor：Diam69mm*Length 380mm Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：3.2KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard:10M,the maximum may be extended to 100m
Suggested Backup spare parts	PGP-UVNO3： UVNO3 Sensor Scraper

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PINH3-900 Ammonia Nitrogen sensor Online Analyzer

Measurement Principle

The ammonia nitrogen concentration was measured by an ion selective electrode method. The ammonia nitrogen sensor is composed of an ammonium ion selective electrode, a potassium ion (optional), a pH electrode and a temperature electrode to form an integrated sensor. These parameters can mutually correct the measurement value of ammonia nitrogen, and at the same time realize multi-parameter measurement.





Features

- Standard digital signal output for integration and networking with other devices without a transmitter.
- The sensor is easy to install on site, enabling plug and play.
- The sensor power supply is reversed and protected. The sensor RS485 A/B terminal is connected to the power supply protection.
- Optional time display, data storage and historical data viewing.
- Optional data wireless transmission module.

Applications

- Sewage treatment plants monitoring instruments and ammonia nitrogen values in aeration tanks monitoring instruments
- Industrial processes and river water monitoring instruments.

Technical Specifications

Measurement range	NH4N：0.1 ~ 1000 mg/L;　K+：00.01 mg/l （optional）;PH：5-10; Temp.:0-40℃
Resolution	NH4N：0.01 mg/l; K+：0.01mg/L （optional）;PH：0.01; Temp.: 0.1℃
Accuracy	NH4N：±5 % or ± 0.2 mg/L (bigger one); K+：±5 % or ±0.2 mg/L（optional）; Temp.: ±0.5℃ ; pH：±0.1 pH
Repeatability	±5% or 0.2mg/l, whichever is greater
Power supply	85-500VAC (50/60HZ) DC: 9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value
Communication protocol	MODBUS RS485
Storage temperature	0-50℃ (Non-freezing)
Operating temperature	0-45℃ (Non-freezing)
Dimension	Sensor：Dia55mm*L 342mm
	Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：1Kg；Transmitter：1.35Kg
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard 10M cable (Max could be extended to 100M)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PUVCOD-900 Spectrometer Organic OnLine Analyzer

Measurement Principle

Based on the UV absorption reaction by organic matter, the PUVCOD-900 Spectromete Organic On-Line Analyzer uses the 254 nm spectral absorption coefficient SAC254 to measure the content of soluble organic compound in the water, and it can be converted to COD or BOD values under certain conditions. This method allows continuous monitoring without any reagents.



Features

- Direct-immersion probe measurement without taking sampling and pretreatment.
- No chemical reagents, no secondary pollution.
- Short response time for continuous measurement.
- The sensor has an automatic cleaning function to reduce maintenance time.

Application

- Continuous monitoring of organic load during sewage treatment, online real-time monitoring of influent and effluent water quality of wastewater treatment plants.
- Continuous on-line monitoring of surface water, industrial effluent, and fishery wastewater.

Technical Specifications

Measuring Range	COD (using KHP calibration)：0~2000mg/l COD (2mm) 0~1000mg/l COD (5mm);0~90mg/l COD (50mm) BOD (using KHP calibration)：0~1500mg/l BOD(2mm) 0~750mg/l BOD(5mm);0~60mg/l BOD(50mm)
Accuracy	±5%
Repeatability	±2%
Resolution	0.01mg/l
Pressure Range	≤0.4Mpa
Sensor material	Body：SUS316L（fresh water），Titanium alloy（Ocean marine）；Cable：PUR
Power Supply	AC：85-500VAC (50/60HZ) DC：9~36VDC
Output	3-way 4-20mA
Relay	Three-way relays, programmed response parameter and response value.
Communication protocol	MODBUS RS485
Storage temperature	-15-50℃
Measuring temperature	0-45℃（Non-freezing）
Dimensions	Sensor：Diam 69mm*Length 380mm，Transmitter：145*125*162mm(L*W*H)
Weight	Sensor：3.2KG；Transmitter：1.35KG
Protective rate	Sensor：IP68/NEMA6P；Transmitter：IP65/ NEMA4X
Cable length	Standard:10m,the maximum may be extended to 100m

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PMI800 Series Portable Water Analyzer

Introduction



PMI800 when used with portable electrodes, the PMI800 portable analyzer can measure a variety of parameters such as pH, ORP, Conductivity (convertible Salinity & TDS), Dissolved oxygen, Turbidity, Suspended solids, Chlorophyll, Blue-green algae ect. The connected electrode type can be automatically identified; single channel and dual channel configurations are available. It has the advantages of comfortable operation, convenient testing and wide application.

Main features

- The host with IP67 protection rating.
- 3.5-inch color screen display, interface menu design is beautiful, easy to operate;
- Ergonomic curve design, suitable for hand grip, with rubber non-slip hand strap, not easy to slip in wet environment.
- With data storage function, storage space 8G, and data export through USB interface.
- Built-in rechargeable battery and charging directly via USB without disassembling the battery.
- Automatically identify the connected sensor type and the reading interface automatically adapts.
- The sensor can be parameterized and calibrated.

Selection Guide

PMI-800 Series Portable Water Quality Analyzer Selection Table

Sensor type	Measurement parameters	Single channel	Dual channel
Optical Digital sensor	Turbidity	√	√
	Suspended solids	√	√
	Dissolved oxygen	√	√
	Chlorophyll	√	√
	Blue-green algae	√	√
Electrochemistry analog sensor	PH	×	√
	Conductivity	×	√
	ORP	×	√

Specifications

Display	3.5-inch color display screen with adjustable backlight
Data storage	8G data storage space
Material	ABS+PC
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Protection level	IP67
Operating temperature	0~50℃（Non-freezing）
Storage temperature	-15~60℃
Size	203*100*43mm
Weight	0.5KG

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

Electrode Parameters

	Temp.	Principle	Thermal method
		Measure Range	0℃~60℃
		Resolution	0.01℃
		Accuracy	±0.5℃
	pH	Principle	Glass electrode method
		Measure Range	0-14 pH
		Resolution	0.01 pH
		Accuracy	±0.1 pH
	ORP	Principle	Glass electrode method
		Measure Range	-1000mV~1000mV
		Resolution	1mV
		Accuracy	±2mV（Electronic component）
	Conductivity (convertible Salinity & TDS)	Principle	Conductivity cell method
		Measure Range	1us/cm-2000 us/cm（K=1） 100us/cm-100ms/cm（K=10.0）
		Resolution	0.1uS/cm~0.01mS/cm（base on range）
		Accuracy	±1% or 1 us/cm，bigger one
	Dissolved oxygen	Principle	Fluorescence method
		Measure Range	0 -20 mg/L；0-20 ppm；0-200%
		Resolution	0.1%/0.01mg/l
		Accuracy	±0.3mg/l
	Turbidity	Principle	Light scattering
		Measure Range	0．1-1000NTU
		Resolution	0.01~0.1NTU，base on range
		Accuracy	±5% or 0.3NTU bigger one
	Suspended solids	Principle	Light scattering
		Measure Range	0.1~20000mg/L；0.1~45000mg/L； 0.1~120000mg/L
		Resolution	0.01~1 mg/L，base on range
		Accuracy	Not more than ±5% measured（Depends on sludge homogeneity）
	Chlorophyll	Principle	Fluorescence method
		Measure Range	0-500 ug/L
		Resolution	0.01 ug/L
		Accuracy	± 5% of the signal level of 1 ppb rhodamine WT dye
		Linearity	R2 >0.999
	Blue-green algae	Principle	Fluorescence method
		Measure Range	200-300,000cells/mL
		Resolution	25 cells/mL
		Accuracy	±10% of the signal level of 1 ppb rhodamine WT dye
		Linearity	R2 >0.999

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PCM300-CODmn Permanganate Index Water Quality Online Monitor

Features



- Acidic potassium permanganate oxidation titration method.
- The electrode is used to determine the end point of the titration, which is not disturbed by the color and turbidity of the water sample, and the measurement result is more accurate.
- Ten-port valve with sapphire core, high wear resistance, strong acid and alkali resistance, organic solvent resistance, strong service life and high stability.
- The syringe pump is used for accurate quantification, and the water samples and reagents are more stable and accurate to ensure the measurement accuracy.
- It has the function of separating waste liquid, and realizes the storage of high-concentration reaction waste liquid and low-concentration cleaning waste liquid.
- With automatic dilution function, it can automatically adjust the range file according to the actual water quality on site.With three-level management authority.
- It has built-in quality control functions such as standard recovery, zero-point verification, standard sample verification, parallel sample test, etc.With automatic fault diagnosis and abnormal information uploading and recording functions, such as parts failure, over-range alarm, over-standard alarm, lack of reagent alarm and other information.
- After abnormal reset and power failure, the instrument automatically discharges the residual reactants in the instrument and automatically restores to the original working state. With power-on alarm function, the instrument will generate alarm information when power is turned on again after power-off.With overheating protection.
- It has the function of analyzing instrument process log, measurement data record and alarm information storage.

Typical Application

- On-line monitoring of permanganate index of drinking water and surface water.

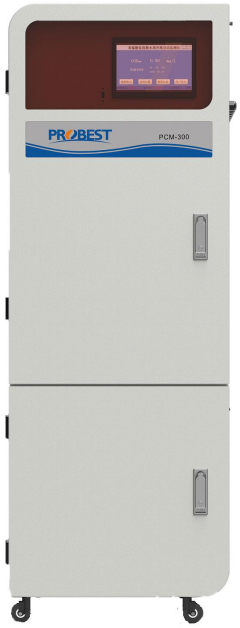
Specifications

Measurement method	Acid potassium permanganate oxidation titration
End point determination	The electrode determines the end point of the titration
Test Range	0~20mg/L
Repeatability	Not more than ±5%
Accuracy	Glucose test: ±5%, actual water sample comparison test: ±10%
Resolution	0.01mg/L
display	7-inch display, operation interface
The sampling period	Period measurement (adjustable from 1h to 30d), whole point measurement mode,external trigger mode optional
Calibration mode	Two modes of manual calibration and automatic calibration
Maintenance cycle	Generally once a month
Power supply	220VAC±10%, 50HZ±10%
Output	4~20mA output
Communication	MODBUS RS-232, RS-485
Environmental conditions	Temperature adjustable room, recommended temperature +5～40°C Humidity ≤85% (no condensation)
Size	544*382*1474mm

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PCM300-CODcr Chemical Oxygen Demand (CODcr) Water Quality Online Monitor

Features



- Dichromate mothod.
- Ten-port valve with sapphire core, high wear resistance, strong acid and alkali resistance, organic solvent resistance, strong service life and high stability.
- The syringe pump is used for precise quantification, the water sample and reagent are more stable and accurate to ensure the measurement accuracy.
- Using a specially designed reference method, the slight displacement of the digestion tank and the slight pollution of the digestion tank will not affect the measured value.
- With waste liquid separation function, to achieve the separation of high-concentration reaction waste liquid and low-concentration cleaning waste liquid.
- With automatic dilution function, can automatically adjust the range file according to the actual water quality on site.
- With standard recovery, zero point verification, standard sample verification, parallel sample test function, ect.,and it can be started automatically, manually, remotely, etc..
- With automatic fault diagnosis and abnormal information upload and recording functions, such as parts failure, over-range alarm, over-standard alarm, lack of reagent alarm and other information.
- With overheating protection:the heating temperature is too high, the heater is automatically powered off.
- After abnormal reset and power failure, the instrument automatically discharges the residual reactants in the instrument and automatically restores to the original working state. With power-on alarm function, the instrument will generate alarm information when power is turned on again after power-off.
- With analysis instrument process log and measurement data recording and alarm information storage function.
- With three-level management authority.

Typical Application

- On-line monitoring of municipal sewage import and export and pollution source discharge.
- On-line monitoring of industrial wastewater export.

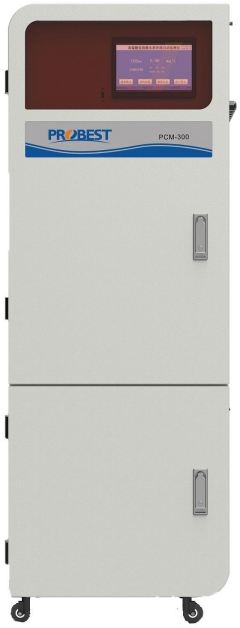
Specification

Range	0~5000mg/L
Indication error	COD＜50mg/L，Relative error≤5mg/L;COD≥50mg/L，Relative error≤10%
Repeatability	≤±5%
Resolution	0.1mg/L
Display	7 inch display, operation interface
Sampling period	Period measurement (adjustable from 1h to 30d), whole point measurement mode, external trigger mode optional
Calibration mode	Manual calibration or automatic calibration
Maintenance cycle	General once a month
Power supply	220VAC±10%，50HZ±10%
Output	4~20mA output
Communication method	MODBUS RS-232、RS-485
Environmental conditions	Temperature adjustable room, recommended temperature +5～40℃ Humidity ≤85% (no condensation)
Size	544*382*1474mm（L*W*H）

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PCM300-NH3N Ammonia Water Quality Online Monitor

Features



- The instrument adopts salicylic acid optical colorimetry.
- Ten-port valve with sapphire core, high wear resistance, strong acid and alkali resistance, organic solvent resistance, strong service life and high stability.
- The syringe pump is used for precise quantification, and the water sample and reagent are more stable and accurate to ensure the measurement accuracy.
- Using a specially designed reference method, the slight displacement of the digestion tank and the slight pollution of the digestion tank will not affect the measured value.
- With waste liquid separation function, to achieve the separation of high-concentration reaction waste liquid and low-concentration cleaning waste liquid.
- With automatic dilution function, can automatically adjust the range file according to the actual water quality on site.With three-level management authority.
- With good quality control functions such as standard recovery, zero point verification, parallel sample test, etc., and it can be started automatically, manually, remotely, etc..
- With automatic fault diagnosis and abnormal information upload and recording functions, such as parts failure, over-range alarm, lack of reagent alarm and other information.
- After abnormal reset and power failure, the instrument automatically discharges the residual reactants in the instrument and automatically restores to the original working state. With power-on alarm function, the instrument will generate alarm information when power is turned on again after power-off.With overheating protection.
- With analysis instrument process log and measurement data recording and alarm information storage function, data calculation is recorded once every hour, can be stored for 3 years, and U disk can quickly export data.

Applications

- Water Online monitoring of ammonia and nitrogen concentrations in drinking water,surface water,municipal sewage import and export, pollution source discharge, and industrial nitrogen wastewater.

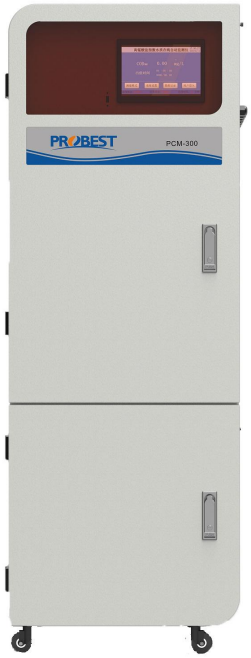
Specification

Range	0~100mg/L
Accuracy	Range 20% Standard solution，≤±8% Range 50% Standard solution，≤±5% Range 80% Standard solution，≤±3%
Repeatability	≤2%
Resolution	0.01 mg/L
Display	7 inch display, operation interface
The sampling period	Period measurement (adjustable from 1h to 30d), whole point measurement mode, external trigger mode optional
Calibration mode	Manual calibration or automatic calibration
Maintenance cycle	General once a month
power supply	220VAC±10%，50HZ±10%
Output	4~20mA output
Communication method	MODBUS RS-232、RS-485
Environmental conditions	Temperature adjustable room, recommended temperature +5 ～ 40℃ Humidity ≤85% (no condensation)
Size	544*382*1474mm

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PCM300-TP Total Phosphorus Water Quality Online Automatic Monitor

Main features



- ammonium molybdate spectrophotometry.
- Ten-port valve with sapphire core, high wear resistance, strong acid and alkali resistance, organic solvent resistance, strong service life and high stability.
- The syringe pump is used for precise quantification, and the water sample and reagent are more stable and accurate to ensure the measurement accuracy.
- Using a specially designed reference method, the slight displacement of the digestion tank and the slight pollution of the digestion tank will not affect the measured value.
- With waste liquid separation function, to achieve the separation of high-concentration reaction waste liquid and low-concentration cleaning waste liquid.
- With automatic dilution function, can automatically adjust the range file according to the actual water quality on site.
- Built with quality control functions such as standard recovery, zero point verification, standard sample verification, parallel sample test, etc., and it can be started automatically, manually, remotely, etc..
- With automatic fault diagnosis and abnormal information upload and recording functions, such as parts failure, over-range alarm, over-standard alarm, lack of reagent alarm and other information.With three-level management authority.
- With overheating protection.After abnormal reset and power failure, the instrument automatically discharges the residual reactants in the instrument and automatically restores to the original working state. With power-on alarm function, the instrument will generate alarm information when power is turned on again after power-off.
- With analysis instrument process log and measurement data recording and alarm information storage function.

Typical application

- Online monitoring of total phosphorus in drinking water and surface water.

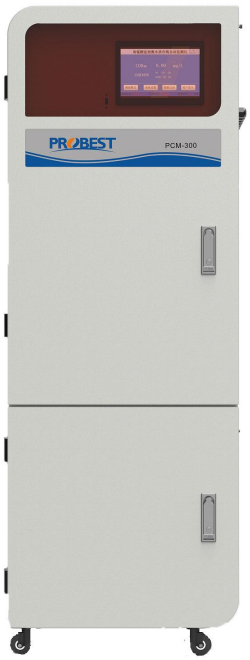
Specification

Range	0~100mg/L
Accuracy	±10% or ±0.1mg/L（Bigger One）
Repeatability	≤±5%
Resolution	0.01mg/L
Display	7 inch display, operation interface
The sampling period	Period measurement (adjustable from 1h to 30d), whole point measurement mode, external trigger mode optional
Calibration mode	Manual calibration or automatic calibration
Maintenance cycle	General once a month
power supply	220VAC±10%，50HZ±10%
Output	4~20mA output
Communication method	MODBUS RS-232、RS-485
Environmental conditions	Temperature adjustable room, recommended temperature +5～40℃ Humidity ≤85% (no condensation)
Size	544*382*1474mm

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PCM300-TN Total Nitrogen Water Quality Online Automatic Monitor

Features



- Ten-port valve with sapphire core, high wear resistance, strong acid and alkali resistance, organic solvent resistance, strong service life and high stability.
- The syringe pump is used for precise quantification, and the water sample and reagent are more stable and accurate to ensure the measurement accuracy.
- Using a specially designed reference method, the slight displacement of the digestion tank and the slight pollution of the digestion tank will not affect the measured value.
- With waste liquid separation function, to achieve the separation of high-concentration reaction waste liquid and low-concentration cleaning waste liquid.
- With automatic dilution function, can automatically adjust the range file according to the actual water quality on site.With three-level management authority.
- Built-in quality control functions such as standard recovery, zero point verification, standard sample verification, parallel sample test, etc., and it can be started automatically, manually, remotely, etc..
- With automatic fault diagnosis and abnormal information upload and recording functions, such as parts failure, over-range alarm, over-standard alarm, lack of reagent alarm and other information.
- After abnormal reset and power failure, the instrument automatically discharges the residual reactants in the instrument and automatically restores to the original working state. With power-on alarm function, the instrument will generate alarm information when power is turned on again after power-off..With overheating protection.
- With analysis instrument process log and measurement data recording and alarm information storage function.

Application

- Online monitoring of total nitrogen concentration in drinking water, surface water,municipal sewage inlet and outlet, pollution source discharge outlet, and industrial wastewater outlet.

Specification

Range	0~100mg/L
Accuracy	±10% or ±0.1mg/L（Bigger one）
Repeatability	≤±5%
Resolution	0.01mg/L
Display	7 inch display, operation interface
The sampling period	Period measurement (adjustable from 1h to 30d), whole point measurement mode, external trigger mode optional
Calibration mode	Manual calibration or automatic calibration
Maintenance cycle	General once a month
Power supply	220VAC±10%，50HZ±10%
Output	4~20mA output
Communication method	MODBUS RS-232
Environmental conditions	Temperature adjustable room, recommended temperature +15 ～ 25℃ Humidity ≤90% (no condensation)
Size	544*382*1474mm

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com

PB-060-AY Water Quality Monitoring Buoy

Product Introduction

Compact buoy monitoring is a modern means of water quality monitoring. Using buoy observation technology, it can monitor the water quality situation 24Hours/7Day, continuously and at fixed points, and transmit the data to the monitoring center in real time. Complete monitoring buoy, including buoy body and anchor system, monitoring equipment (temperature, pH, dissolved oxygen, conductivity, turbidity, chlorophyll, blue-green algae, UVCOD, ammonia nitrogen, etc.), data acquisition and transmission unit, power supply unit (battery pack & solar power system), protection unit (GPS, beacon, alarm), can remotely monitor water quality and other monitoring data in real time. The remote wireless monitoring system based on wireless local area network technology does not need to lay cables, and can quickly and conveniently set up front-end monitoring equipment in the places that need to be monitored. It has strong practicability, flexibility and expandability.



Specification

Buoy size	Buoy size：0.6m * 0.6m * 0.7m (W *D*H); N/W: 35KG
Carrying capacity	6 probe diameters ≤75mm; probe length ≤400mm
Buoy power supply system	Battery capacity: 42AH (Need to be purchased in your local market); 72w solar configuration; Power supply mode: DC12V (optional)
Low power consumption design	The instrument, data acquisition and indicator light are all selected with low power consumption, and the power supply pressure is small.
Power supply capacity	Customized selection, battery life in rainy days can reach up to 30 days
Position indicator	With warning lights, can be clearly positioned at night to avoid being damaged
Anti-overturning design	According to the tumbler principle, the center of gravity moves downward to prevent overturning
Easy to deploy	Good environmental adaptability, very suitable for urban rivers, small lakes and reservoirs, wetland parks, etc.
Easy maintenance	The sensor uses a quick plug for easy maintenance
Anti-interference	Probes are installed separately to avoid mutual interference between monitoring
Water quality multi-parameter	pH range: 0-14pH, Temperature: 0-60 ° C Conductivity range: 10-5000us / cm, Temperature: 0-60 ° C Dissolved oxygen range: 0-20mg / L, 0-200%, Temperature: 0-45 ° C Turbidity range: 0.01-4000NTU Chlorophyll range: 0-500 ug / L Blue-green algae range: 200-300,000 cells / mL (can be customized) UVCOD range: 0 ~ 2000mg / l COD (2mm optical path) Ammonia nitrogen range: 0.1 ~ 1000 mg / L

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-83226312
Web:www.probesti.com