PMI800-BA Portable Blue-Green Algae Water Analyzer

Principle of Measurement

Portable Blue-Green Algae water analyzer consists of portable host and Blue-Green Algae sensor. The principle of Blue-Green Algae Sensor is using the characteristics of cyanobacteria who has absorption peaks and emission peaks in the spectrum.The absorption peaks emit monochromatic light into the water,cyanobacteria in the water absorbs the energy of monochromatic light,releasing monochromatic light of emission peak of another wavelength.The light intensity emitted by cyanobacteria is proportional to the content of cyanobacteria in water.



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, 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.

Technical Specifications

Measurement range	0-300,000cells/mL
Resolution	20 cells/mL
Measurement Accuracy	±10% of the signal level corresponding value of 1ppb Rhodamine B Dye
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC；Sensor:SUS316L
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor: Dia 24mm*Length 145mm,0.25KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com

PMI800-CH Portable Chlorophyll Water Analyzer

Principle of Measurement

Portable chlorophyll water analyzer consists of portable host and chlorophyll sensor. The principle of chlorophyll sensor is using the characteristics of chlorophyll A who has absorption peaks and emission peaks in the spectrum.The absorption peaks emit monochromatic light into the water,chlorophyll A in the water absorbs the energy of monochromatic light,releasing monochromatic light of emission peak of another wavelength.The light intensity emitted by cyanobacteria is proportional to the content of chlorophyll A in water.



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, 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.

Technical Specifications

Measurement range	0-500 ug/L
Resolution	0.01 ug/L
Measurement Accuracy	±5% of the signal level corresponding value of 1ppb Rhodamine B Dye
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC；Sensor:SUS316L
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor: Dia 24mm*Length 145mm,0.25KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com

PMI800-COD Portable Spectrometer Organic Water Analyzer

Principle of Measurement

Portable spectrometer organic water analyzer consists of portable host and Spectrometer Organic sensor.Based on the UV absorption reaction by organic matter, the Spectrometer 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

- 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, 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;
- The sensor uses LED light source, low power consumption.

Technical Specifications

Measuring Range	COD (using KHP calibration)：0-500mg/l COD BOD (using KHP calibration)：0-375mg/l BOD Turbidity：10-800NTU
Accuracy	COD:±5%（KHP Standard solution）,Turbidity：±10%
Repeatability	5%（KHP Standard solution）
Resolution	COD:0.01mg/L,Turbidity：0.01NTU
Pressure Range	≤0.1Mpa
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC Sensor Body：SUS316L（fresh water），Titanium alloy（Ocean marine）； Sensor Cable：PUR
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor:Dia 34mm*Length 209mm,＜0.8KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com

PMI800-EC Portable Conductivity Water Analyzer

Principle of Measurement

The portable conductivity analyzer consists of a portable ma inframe and a portable conductivity sensor. The measureme nt principle is to put two parallel plates into the measured sol ution, add a certain electric potential (usually sine wave volt age) at both ends of the plate, and then measure the current flowing between the plates. Conductivity is determined by O hm's formula based on voltage and current values.



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, 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.

Technical Specifications

Measurement range	0-20000us/cm（K=1）
Resolution	0.1us/cm-0.01ms/cm（Depends on the measuring range）
Accuracy	±1.5% or ±2 us/cm，whichever is greater
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC；Sensor:PE
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor:Dia 13mm*Length 120mm,＜0.1KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com

PMI800-SS Portable Suspended SolidsWater Analyzer

Principle of Measurement

The portable suspended solids analyzer consists of a main host and a suspended solids sensor. The sensor is based o n the combined infrared absorption and scattering light meth od, and the ISO7027 method can be used for continuous ac curate determination of suspended solids (sludge concentrat ion). The value of suspended solids (sludge concentration) was determined by ISO7027 infrared double-scattered light technique without influence of chroma.



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, 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.

Technical Specifications

Measurement range	0.01-20000mg/L;0.01-45000mg/L;0.01-120000mg/L(Optional)
Measurement accuracy	Less than the ±5% of measured value. (Depending on the homogeneity of sludge)
Resolution	0.01-1 mg/L，base on range
Calibration	Sample Calibration,Slope Calibration
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC sensor: Body：SUS316L（fresh water），sensor cover：POM；sensor cable：PUR
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor:Dia 60mm*Length 254mm,1.65KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com

PMI800-FDO Portable Dissolved Oxygen Water Analyzer

Principle of Measurement

Portable dissolved oxygen meter consists of portable host and fluorescence dissolved oxygen sensor. Using advanced fluore scence measurement principle, no membrane and electrolyte, basically no maintenance, no oxygen consumption during mea surement, no flow rate/agitation requirements; and built-in NTC temperature compensation function, the measurement results have good repeatability and stability.



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, 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.

Technical Specifications

Measurement range	DO：0-20 mg/L or 0-200% Saturation; Temperature：0-45℃
Resolution	0.01mg/l
Measurement Accuracy	DO: ±3% or ±0.3 mg/L, Greater one; Temperature：±0.5℃
Calibration	Air automated calibration, sample calibration
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC；Sensor:SUS316L
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor: Dia 25mm*Length 127mm,<0.3KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com

PMI800-ORP Portable ORP Water Analyzer

Principle of Measurement

Portable ORP analyzer consists of portable host and portable ORP sensor. The sensor uses composite electrode composed of a glass indicator electrode and a reference electrode to measure ORP value of water quality, data stability and reliable performance.



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, 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.

Technical Specifications

Measurement range	-2000mV - +2000mV
Resolution	1mV
Accuracy	±2mV（electronic component）
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC；Sensor:PE+Glass
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor: Dia 13mm*Length 130mm,<0.1KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com

PMI800-pH Portable PH Water Analyzer

Principle of Measurement

Portable PH analyzer consists of portable host and portable PH sensor. The sensor uses composite electrode composed of a glass indicator electrode and a reference electrode to measure PH value of water quality, Data stability and reliable performance.



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, 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.

Technical Specifications

Measurement range	pH：0-14, Temperature：0-60℃
Resolution	pH：0.01PH, Temperature：0.01℃
Accuracy	pH：±0.1PH, Temperature：±0.5℃
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC；Sensor:PC
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor: Dia 13mm*Length 130mm,<0.1KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com

PMI800-TU Portable Turbidity Water Analyzer

Principle of Measurement

Portable turbidity water analyzerconsists of a main host and a turbidit sensor 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 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, 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.

Technical Specifications

Measurement range	0.1-1000 NTU
Measurement accuracy	Less than ±5% of the measured reading or ±0.3NTU,whichever is greate
Resolution	0.01-0.1NTU，base on range
Response time	< 30 s
Calibration	Sample Calibration,Slope Calibration
Display	3.5-inch color display screen with adjustable backlight
Power supply	Built-in battery power, battery specifications: 4 3.7V rechargeable lithium battery
Data storage	More than 100,000 data
Material	Mainframe:ABS+PC；sensor: SUS316L
Protection level	Mainframe: IP67,sensor: IP68/NEMA6P
Operating temp.	0-50℃（Non-freezing）
Storage temperature	-15-60℃
Size&Weight	Mainframe:203*100*43mm,0.5KG sensor:Dia 24mm*Length 135mm，<0.25KG
Cable length	Standard: 3 m(The cable can be extendable)

Probest Intelligent Technology Co.,Ltd.
Email: international-sales@probest.cn
Tel:+86-(0)591-8322631
Web:www.probesti.com