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 etc. 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

Measurement parameters	Single channel	Dual channel
Turbidity	√	√
Suspended solids	√	√
Dissolved oxygen	√	√
Chlorophyll	√	√
Blue-green algae	√	√
PH	√	√
Conductivity	√	√
ORP	√	√
COD	√	√

Technical Specifications

Display	3.5-inch color display screen with adjustable backlight
Data storage	More than 100,000 data
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

Electrode Parameters

	Temp.	Principle	Thermal method
		Range	0℃-60℃
		Resolution	0.01℃
		Accuracy	±0.5℃
	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	±2mV(Electronic component)
	Conductivity (convertible Salinity & TDS)	Principle	Conductivity cell method
		Range	0-20000us/cm(K=1)
		Resolution	0.1uS/cm-0.01mS/cm(base on range)
		Accuracy	±1.5% or ±2 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	±3% or ±0.3 mg/L, the bigger one
	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	0.01-20000mg/L;0.01-45000mg/L; 0.01-120000mg/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 B dye
		Linearity	R2 >0.999
	Blue-green algae	Principle	Fluorescence method
		Measure Range	0-300,000cells/mL
		Resolution	20 cells/mL
		Accuracy	±10% of the signal level of 1 ppb rhodamine B dye
		Linearity	R2 >0.999
	COD	Principle	UV absorption method
		Measure Range	0-500mg/l COD (5mm)
		Resolution	COD/BOD/TOC:0.01 mg/l
		Accuracy	5% (using KHP calibration)