BSMI-800 Series Portable Water Analyzer

Introduction

BSMI-800 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, 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

BSMI-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	×	√

Specification

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

Standard 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	-2000mV~2000mV
		Resolution	1mV
		Accuracy	±2mV（Electronic component）
	**Conductivity (convertible Salinity & TDS)**	**Principle**	Conductivity cell method
		Measure 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	±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 B dye
		Linearity	R2 >0.999
	**Blue-green algae**	**Principle**	Fluorescence method
		Measure Range	200-300,000cells/mL
		Resolution	20 cells/mL
		Accuracy	±10% of the signal level of 1 ppb Rhodamine B dye
		Linearity	R2 >0.999