

MULTI PARAMETER

Liquid Analysis

PORTABLE MULTI PARAMETER WATER ANALYZER – P800

Measurement & Monitoring



DESCRIPTION

The P800 portable water analyzer is designed for a variety of parameters such as pH, ORP, conductivity (convertible salinity & TDS), dissolved oxygen, turbidity, suspended solids, chlorophyll and blue-green algae. Rubber-over mould grip and the cursive ergonomic design on the handheld analyzer, provides better grip in wet conditions. The data logger allows users to store 100,000 data and retrieve data via USB port. The automatic identification features and the flexible configuration system allow the handheld analyzer to detect the measured parameter of the sensor.

TECHNICAL FEATURES

Display 3.5" colour LED, adjustable backlight setting
Data Storage More than 100,000 data
Body Material ABS+PC
Power Supply Built-in battery power
3.7V rechargeable lithium battery
Protection IP67
Operating Temperature 0 to 50°C (Non-freezing)
Storage Temperature -15 to 60°C
Signal Cable Length 5 meter
Size 203 x 100 x 43 mm (handheld unit dimension)
Electrode Parameters

FEATURES

- ✓ Economical and convenient
- ✓ Lightweight and user friendly
- ✓ Ergonomic design
- ✓ 3.5" LED display
- ✓ Plug-and-use digital sensor
- ✓ USB interface
- ✓ Built-in datalogger
- ✓ Built-in rechargeable battery
- ✓ IP67 protection rating

Measurement Parameter	Single Channel	Dual Channel
Turbidity	✓	✓
Suspended Solids	✓	✓
Dissolved Oxygen	✓	✓
Chlorophyll	✓	✓
Blue-Green Algae	✓	✓
pH	✓	✓
Conductivity	✓	✓
ORP	✓	✓

I-SYSTEM MEASUREMENT
www.ismesb.com



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SENSOR PARAMETER

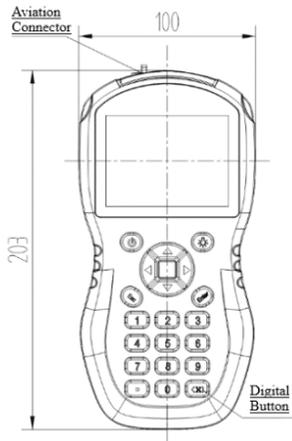
	Temperature	Principle	Thermal method
		Measure Range	0 to 60°C
		Resolution	0.01°C
	pH	Accuracy	±0.5 °C
		Principle	Glass electrode method
		Measure Range	0 to 14 pH
	ORP	Resolution	0.01 pH
		Accuracy	±0.1 pH
		Principle	Glass electrode method
		Measure Range	-1000 mV to 1000 mV
	Conductivity (Convertible Salinity & TDS)	Resolution	1 mV
		Accuracy	±2mV (Electronic component)
		Principle	Conductivity cell method
		Measure Range	0 us/cm to 2000 us/cm (K=1)
	Turbidity	Resolution	0.1 uS/cm to 0.01 mS/cm (based on range)
		Accuracy	±1% or 1 us/cm (whichever is greater)
		Principle	Light scattering
		Measure Range	0.1 to 1000 NTU
	Suspended Solids	Resolution	0.01 to 0.1 NTU (based on range)
		Accuracy	±5% or 0.3 NTU (whichever is greater)
		Principle	Light scattering
		Measure Range	0.1 to 20000 mg/L; 0.1 to 45000 mg/L; 0.1 to 120000 mg/L
	Dissolved Oxygen	Resolution	Not more than ±5% measured (Depends on sludge homogeneity)
		Accuracy	0.01 to 0.1 mg/L, base on range
		Principle	Fluorescence method
		Measure Range	0 -20 mg/L; 0-20 ppm; 0-200%
		Resolution	0.1% / 0.01mg/l
		Accuracy	±0.3 mg/l



SENSOR PARAMETER (CONT.)

	Chlorophyll	Principle	Fluorescence method
		Measure Range	0 to 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 to 300,000 cells/mL
		Resolution	25 cells/mL
		Accuracy	±10% of the signal level of 1 ppb rhodamine WT dye
		Linearity	R2 > 0.999
	COD	Principle	UV absorption method
		Measure Range	0 to 500mg/L COD (5mm)
		Resolution	COD/BOD/TOC: 0.01mg/L
		Accuracy	5% (using KHP calibration)

DIMENSION/DRAWING



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