

GMWA-1000

Multi-Parameter Online Water Quality Analyzer

Professional Multi-Parameter Water Quality Monitoring for Industrial, Municipal & Environmental Applications



Product Overview

The GMWA-1000 is a compact multi-parameter water quality analyzer designed for continuous online monitoring. Supporting up to 7 digital sensors, it provides reliable real-time measurements for water treatment, industrial processes and environmental applications.

Feature	Parameters	Applications
 Up to 7 Sensors	 Temperature	 Drinking Water
 7" Touchscreen	 pH / ORP	 Wastewater
 Plug & Play	 Conductivity	 Industrial
 MODBUS / 4G	 Dissolved Oxygen	 Surface Water
 Data Logging	 Chlorophyll & Algae	 Aquaculture
 IP65 Enclosure	 Turbidity, COD, NO ₃ , NH ₄	 Environmental

Why Choose GMWA-1000?

The GMWA-1000 combines multiple analytical sensors into one intelligent controller, reducing equipment footprint while providing continuous online monitoring and reliable long-term performance.



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 selfadaptation, and has data storage and export Features .

Technical Specifications

Specification	Details
Display	7" Colour Touchscreen
Power Supply	85–500 VAC / 9–36 VDC
Outputs	8 × 4–20 mA
Relay Outputs	4 Programmable Relays
Communication	MODBUS RS485, Optional 4G/NB
Protection Rating	IP65 / NEMA4X
Operating Temperature	-15°C to 60°C
Dimensions	260 × 200 × 123 mm
Weight	Approx. 2.0 kg

System Benefits

- ✓ Supports up to 7 sensors simultaneously
- ✓ Universal plug-and-play digital sensor interface
- ✓ Real-time multi-parameter monitoring
- ✓ Built-in data logging and export
- ✓ 4–20 mA, MODBUS RS485 & optional 4G/NB connectivity
- ✓ Rugged IP65 / NEMA4X enclosure
- ✓ Low-maintenance design for long-term operation





Electrode Parameters

Electrode	Parameter	Item	Specification
	Temp.	Principle	Thermal method
		Range	0°C ~ 60°C
		Resolution	0.01°C
		Accuracy	±0.5°C
	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	±3mV (Depends on component)
	Conductivity (Salinity & Salinity & TDS)	Principle	Conductivity cell method
		Range	0~2000mS/cm (K=1)
		Resolution	0.1uS/cm (0~1999uS/cm); 0.01mS/cm (others)
		Accuracy	±1% of solution, ±0.5°C
	Dissolved oxygen	Principle	Fluorescence method
		Range	0~20 mg/L 0~200% 0~50°C
		Resolution	0.01mg/L; 0.1%
		Accuracy	±1% of ±0.3mg/L, whichever is greater
	Turbidity	Principle	Light scattering
		Range	0.1~3000 NTU
		Resolution	0.01~0.1NTU, based on range
		Accuracy	±5% or 0.3NTU, bigger one
	Suspended solids	Principle	Light scattering
		Range	0.01~5000mg/L, 0.01~25000mg/L, 0.01~120000mg/L
		Resolution	0.01~1 mg/L, based on range
		Accuracy	Not more than ±5% measured (Depends on the substrate density)
	Chlorophyll	Principle	Fluorescence method
		Range	0~500 µg/L
		Resolution	0.01 µg/L
		Accuracy	±5% of the typical value of 1 ppb rhodamine WT dye
		Linearity	R2>0.999
	Blue-green algae	Principle	Fluorescence method
		Range	0~300,000cells/mL
		Resolution	10cells/mL
		Accuracy	±5% of the typical value of 1 ppb rhodamine WT dye
		Linearity	R2>0.999

