JMX4003 Online Deep-Water Multi-parameter Sonde

DYBVANDSSONDE

200 m depth · Titanium sensors · Self-cleaning brush · 6-probe body · IP68 · Marine monitoring · Wastewater · Water wells · Deep lakes



Product Introduction

The JMX4003 online deep-water multi-parameter sonde features a robust pressure-resistant structure with self-developed titanium water-tight connectors, designed for marine environment monitoring and deep-water and well engineering. The main unit has six uniform sensor ports and can install up to six freely selectable sensors, including dissolved oxygen, pH, ORP, conductivity (salinity), turbidity, chlorophyll, blue-green algae, oil-in-water and depth. All sensors are titanium-alloy for excellent pressure and corrosion resistance. Besides the six ports, a central port holds a titanium-alloy cleaning brush that cleans the measurement end face, removes bubbles and prevents microbial fouling. Withstanding up to 200 m water pressure, the JMX4003 works stably in marine monitoring, deep lakes, underground wells and wastewater applications.

Product Features

- RS-485 output with standard MODBUS protocol, easy connection to data-acquisition platforms and water-quality online monitoring stations
- Main body has 6 same-spec sensor ports and 1 cleaning-brush center port, directly inserting 22 mm probes with automatic recognition
- All configured sensors are titanium-alloy, resisting high pressure for 200 m underwater operation
- Automatic cleaning device with timed self-cleaning, eliminating errors from bubbles and fouling — suitable for long-term unattended online monitoring
- All calibration parameters stored in independent sensors, allowing on-site replacement, calibration and maintenance

Available Sensors

- Dissolved oxygen · pH / ORP
- Conductivity (salinity)
- Turbidity / chlorophyll
- Blue-green algae / oil-in-water
- Depth

Product Specification

Parameter	JMX4003 Deep Water Multi-parameter Sonde
Measuring depth	0–200 m
Body info	6 sensor ports + 1 central cleaning port, probes freely combined
Dimensions	Φ84 mm × 544.4 mm
Operating temperature	0–50 °C
Calibration	Stored in probe, detachable for direct calibration
Output	RS-485, MODBUS protocol
Brush control	30 min default cleaning, interval adjustable
Full-load power	0.8 W (idle); 2 W (brushing); DC 12–24 V, ≥1 A
Protection class	IP68
Weight	3.25 kg (body + 6 sensors)
Status alarms	Power, communication, cleaning-brush
Cable length	Waterproof connector, 30 m (default), customizable
Material	PVC, titanium alloy, anti-fouling copper