JMX4000

MULTI-PARAMETERSONDE

Online Multi-parameter Sonde

Up to 6 probes · Self-cleaning brush · 7 parameters · Measurements down to 30 m depth · IP68 · RS-485 MODBUS



Product Introduction

The JMX4000 online multi-parameter sonde features a multi-in-one structure with RS-485 digital probes and water-sealed connections, allowing on-site calibration and replacement. It monitors water temperature, pH, ORP, dissolved oxygen, turbidity, chlorophyll, blue-green algae, conductivity (salinity), oil-in-water, ammonia nitrogen and depth — one parent body supports up to six probes detecting seven parameters. A self-cleaning brush removes bubbles and bio-fouling. Suitable for sewage treatment, surface water, ocean and groundwater, it delivers high reliability for unattended operation over months.

Product Features

- RS-485 output with standard MODBUS protocol, convenient connection to data-collection platforms and automatic water-quality monitoring stations
- Parent body supports up to 6 probes, freely selectable among DO, conductivity (salinity), turbidity, pH, ORP, chlorophyll, blue-green algae, oil-in-water, ammonia nitrogen, etc.
- Automatic cleaning device cleans on a timer, eliminating errors from bubbles or fouling — suitable for long-term unattended online monitoring
- Each sensor can be replaced, calibrated and maintained on-site for great flexibility; high-efficiency collection algorithm, fast response, integrated over-voltage/over-current, communication-fault and cleaning-agent alarms for convenient O&M

Product Structure

- Ilt · ledningsevne (salinitet)
- pH / ORP · turbiditet / klorofyl
- Blågrønalger / olie-i-vand
- NH_4-N (ammonium kvælstof)
- Dybde · temperatur

Product Specification

Parameter	JMX4000 Online Multi-parameter Sonde
Measuring depth	0–30 m
Body info	Up to 6 sensors + 1 central cleaner; probes and cleaning brush detachable, freely combined
Dimensions	Φ84 mm × 476 mm
Calibration	Stored in probe, detachable for direct calibration
Output	1× RS-485, MODBUS protocol
Weight	2.3 kg (body + 6 sensors)
Brush control	30 min default cleaning, interval adjustable
Full-load power	0.8 W (idle); 2 W (brushing)
Power supply	Body: DC 12–24 V, ≥1 A; probe: 9–24 V, ≥1 A
Protection class	IP68
Status alarms	Internal power, internal communication, cleaning-brush
Cable	Waterproof connector, 10 m (default), customizable
Material	POM, titanium alloy, anti-fouling copper

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Tilgængelige sensorer

Den enkelte sensors nøjagtighed er angivet som den største af de to værdier. Sensorerne kan frit kombineres i husets seks porte.

Sensor	Model	Princip	Område	Nøjagtighed	Materiale
Ilt	JM504B	Fluorescence	0–50 mg/L eller 0–500% mæt.	0–20 mg/L: ±1% eller ±0,2 mg/L; >20 mg/L: ±5% eller ±0,6 mg/L	Titanium
Turbiditet	JM510C	90° spredt lys	0–1000 eller 0–4000 NTU	±5% eller 0,3 NTU (største)	Titanium
Ledningsevne (salinitet)	JM523B	Fire-elektrode	Ledn. 0–200 mS/cm (0–2 / 2–20 / 20–200); sal. 0–175 ppt; TDS 0–128000 mg/L	±1% eller 0,01 mS/cm (største); ±1 ppt	Titanium + PEEK
Olie-i-vand	JM616C	UV-fluorescence	0–50 eller 0–150 ppm	Linearitet R^2>0,999	Titanium
pH	JM532B	Glaselektrode	0–14 pH	±0,02 pH	Titanium + POM
ORP	JM533B	Platinelektrode	-1999 til 1999 mV	±20 mV	Titanium + POM
Klorofyl	JM515B	Fluorescence	0–500 µg/L	±5% eller 0,5 µg/L (største)	Titanium
Blågrønalger	JM613C	Fluorescence	0–300000 celler/mL (op til 2M som option)	Linearitet R^2>0,999	Titanium
Ammonium kvælstof	JM562C	Ion-selektiv elektrode	0–100 mg/L (0–1000 som option)	±10% eller ±0,5 mg/L (største)	Titanium + POM
Dybde	JM700B	Differentialtryk	0–2 m … 100 m	<0,1% F.S.	316L (Ti som option)
Temperatur	—	Termistor	-5 til 50 °C	±0,2 °C	—