JMX

MULTI-SENSOR

Online Multi Water Quality Meter

Up to 6 probes · Up to 7 parameters · Self-cleaning brush · 30 m cable option · IP68







The JMX Online Multi Water Quality Meter uses a “multi-in-one” design, where each of the 6 different sensor types is its own digital probe, gathered in the main unit, JMX, and where the data are stored inside the individual sensor, which can easily be calibrated or replaced directly on site.

In combination with the digital measurement buoy, BOOI, or the drone boat, BlueBoat, data are sent to the cloud. Alternatively, the readings can be viewed on the handheld unit.

Features

JMX can measure up to 7 parameters at the same time with the 6 sensors (temperature is default), with free choice between measurements of:

- pH
- Redox (good/poor biology)
- Dissolved oxygen
- Conductivity (salinity)
- Turbidity (clarity of the water)
- Chlorophyll a
- Blue-green algae (BGA)
- Oil in water (OIW)

- JMX has a built-in brush for the self-cleaning function, which effectively keeps measurement surfaces clean by removing bubbles, brushing fouling away and helping to prevent algae and bacteria from settling, so that measurements remain accurate (the cleaning interval is adjustable; 30 min. is standard).
- This means that the JMX Online Multi Water Quality Meter can be used without problems in all kinds of water environments — for example wastewater, surface water, seawater and groundwater.
- All calibration parameters are stored in the individual sensor, which makes maintenance easy.
- Housing material in POM / titanium alloy and with anti-fouling copper.
    - Cable length is 10 metres as standard but can be supplied up to 30 metres.

Just measure
Know Your Water

JMX

MULTI-SENSOR

Sensor Functionality

Up to 6 probes · Up to 7 parameters · Self-cleaning brush · 30 m cable option · IP68

Sensor type	Property	Specification
Dissolved oxygen	Principle	Fluorescence method
	Range	0–20 mg/L or 0–200% saturation
	Accuracy	±1% or ±0.3 mg/L (whichever is greater)
Electrical conductivity (EC)	Principle	Four-electrode
	Conductivity range	0–5 mS/cm or 0–100 mS/cm
	Salinity range	0–2.5 ppt or 0–80 ppt
pH	Principle	Glass electrode method
	Range	0–14 pH
	Accuracy	±0.02 pH
Chlorophyll	Principle	Fluorescence method
	Range	0–500 µg/L
	Accuracy	±5% or 0.5 µg/L (whichever is greater)
Turbidity	Principle	90° scattered light
	Range	0.1–1000 NTU
	Accuracy	±5% or 0.3 NTU (whichever is greater)
Oil in water (OIW)	Principle	Ultraviolet fluorescence method
	Range	0–150 ppm
	Linearity	$R^2 > 0.999$
Redox	Principle	Platinum electrode method
	Range	−1999 to 1999 mV
	Accuracy	±20 mV
Blue-green algae (BGA)	Principle	Fluorescence method
	Range	0–300,000 cells/mL (adjustable 0–2 million)
	Linearity	$R^2 > 0.999$

Note: The technical parameters above are all data from a laboratory standard liquid environment.