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WQMX Water Quality Monitor

The water quality monitor is designed to deliver core biogeochemical water quality parameters from a single integrated package. Designed for long term deployments the WQMx uses both active and passive anti-fouling measures that allow it to be deployed unattended for up to a year.

Features

- Three Optical Channels
- External CDOM fluorescence
- User serviceable bio-wiper
- Factory service interval can be extended for up to 2 years
- Lower lifetime cost
- Improved data handling/external USB dataport
- Field check procedures to ensure meter accuracy

Parameters

- Conductivity
- Temperature
- Depth
- Dissolved Oxygen
- Chlorophyll-a
- Backscattering (Turbidity)
- CDOM Fluorescence or User Optional Optical Channel







Conductivity

Range	0-9 S/m
Accuracy	0.0003 mS/cm
Resolution	0.0005 mS/m

Pressure

Range	0–100 or –200 m
Accuracy	0.1% Full Scale
Resolution	0.002% Full Scale

Electrical

Connector	MCBH-6-MP, MCBH-4-FS
Output	RS-232
Input	9–16 VDC
Sample rate	1 Hz
Current draw	< 50 mA DO Stabilization < 100 mA Sampling 180 mA Peak Sampling 350 mA Peak (BLIS Operation) < 50 µA (Sleep)

Mechanical

Diameter	18.5 cm max OD
Length	69 cm
Weight in air	6.25 kg
Weight in water	1.7 kg
Materials	Acetal copolymer, ABS, PVC, titanium, copper
Depth ^a	200 m

TemperatureRange-5 - 35 °CAccuracy0.002 °CResolution0.001 °C

Dissolved Oxygen

Range	120% of saturation (150% upon request)
Accuracy	2% of saturation
Resolution	0.035% of saturation (0.003 ml/l at 0°C, 35 PSU)

Optical	
Scattering wavelength	700 nm
Range—highest gain	0–3 m ⁻¹
Sensitivity	0.0015 m ⁻¹
Chlorophyll EX/EM⁵	470/695 nm
Range—highest gain	0–30 μg/l
Sensitivity	0.015 μg/l
CDOM EX/EM	370/460 nm
Range	0–375 ppb
Sensitivity	0.28 ppb
Linearity	99% R ²

a. Depth rating is the lesser of 200 m or the pressure sensor rating.b. Chlorophyll fluorescence is created by living organisms and is subject to taxonomical and physiological changes. Field calibration is highly recommended. See user's guide for standard protocols.



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