Water Quality Monitor for Maximum Deployment Times

- **Product type**
  Unattended
- **Parameters measured**
  Conductivity, pressure, chlorophyll, temperature, dissolved oxygen, turbidity
- **Product highlights**
  Designed specifically for extended deployment in biologically rich waters
- **Interface**
  RS-232

Ideally suited for unattended monitoring the WQM X employs active flow control, passive flow prevention, light-blocking, active biocide injection and passive inhibitors to effectively and safely combat internal and external fouling. With fouling minimized, the superior inherent stability of the WQM sensors translates directly to superior long-term data quality.

Measured Parameters

CONDUCTIVITY	
Range	0 ... 9 S/m
Accuracy	0.003 mS/cm
Resolution	0.00005 S/m

PRESSURE	
Range	0 ... 100 or 0 ... 200 m
Accuracy	0.1% Full Scale

Resolution	0.002% Full Scale

FLUORESCENCE	
Range	0 ... 50 µg/l
Accuracy	0.2% FS µg/l
Precision	0.04% FS µg/l 0.02% FS/deg C
Wavelength	EX/EM 470/695 nm

TEMPERATURE	
Range	-5 ... 35°C
Accuracy	0.002 °C

Resolution	0.001 °C
DISSOLVED OXYGEN	
Range	120% of saturation (200% upon request)
Accuracy	2% of saturation
Resolution	0.035% of saturation (0.003 ml/l at 0 C, 35 PSU)

TURBIDITY	
Range	0 ... 25 NTU
Accuracy	0.1% FS NTU
Precision	0.04% FS NTU
Wavelength	700 nm

ELECTRICAL	
Connector	MCBH-6-MP, MCBH-4-FS
Output	RS-232
Input	9 ... 16 VDC
Sample rate	1 Hz
Current draw	<100 mA Sampling 350 mA Peak < 50 µA Sleep

MECHANICAL	
Depth	200 m
Pressure housing	Acetal copolymer, ABS, PVC, titanium, copper
Dimensions	65.4 cm long x 18.5 cm max OD
Weight in air	5.4 kg
Weight in water	1.8 kg

a. Oxygen range is relative to surface saturation.b. +/- 0.2 mg/l or 2% of reading, whichever is greater. c. Available measurement ranges: 0□30 ?g Chl/l, 0□10 NTU 0□50 ?g Chl/l, 0□25 NTU 0□50 ?g Chl/l, 0□100 NTU 0□75 ?g Chl/l, 0□200 NT	