



### 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<br>350 mA Peak<br>< 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 µg Chl/l, 0-10 NTU 0-50 µg Chl/l, 0-25 NTU 0-50 µg Chl/l, 0-100 NTU 0-75 µg Chl/l, 0-200 NT