



AquaDMS

System for Disinfection Monitoring





Applications

Potentiostatic measurement of one of the following parameters

- Free Chlorine (HCIO, hypochloric acid)
- Chlorine Dioxide (CIO2)
- Ozone (O3)
- Hydrogen Peroxide (H2O2)

Properties

- Complete and pre-assembled system:
 Mount connect water measure
- Configurations with/without pH compensation
- Stabilized waterflow
- Automatic sensor cleaning function
- No zero drift
- Direct measurement
- Result is available within seconds

Industries

- Treatment of drinking water
- Beverage production
- Food production
- Process water in various industries











Innovations with tangible benefits

Complete system

A pre-assembled system with the following components depending on the configuration:

- Intelligent control system
- Flow regulator
- Automatic sensor cleaning
- Sensor to measure disinfectant & sensor to measure pH
- Mount connect water measure

Potentiostatic Measurement

With this principle, the sensor is in direct contact with the medium to be measured:

- Measured value available within seconds
- No membranes
- No electrolyte to be refilled

Flow regulator

Stable water flow is most critical for the potentiostatic measurement of disinfectants. The flow regulator guarantees:

- Minimum needed flow stability
- Precise measurement during long periods of time

Maintenance

All sensors are equipped with the automatic sensor cleaning function ASR®. The cleaning interval can be chosen freely and is at least 24 hours:

- No manual cleaning is necessary
- No chemical additives are necessary
- Long calibration cycles
- ASR® eliminates coatings of organic and inorganic material (limestone, fat, iron- & manganese oxides, etc).

Intelligent control system

Control unit with touch screen technology and color display.

- Values, alarm- and status messages can be presented

MicroSD-card for data and parameter storage and software update.

Main technical details

Measuring principle: Potentiostatic measurement Measuring span: Free Chlorine: 0 ... 20 mg/l

Chlorine Dioxide: 0 ... 20 mg/l (upon request 0 ... 30 mg/l)

0 ... 10 mg/l Hydrogen Peroxide: 0 ... 30 mg/l Measuring range: Freely program Resolution: 0.01 mg/l

minimum 50 µS/cm Conductivity of sample:

6 ... 9 (for free Chlorine 6 ... 8) pH of sample:

IP 65 Protection:



technical data:





AquaDMS

Technical data

AquaDMS System

Measuring principle: Potentiostatic measurement Measuring span: Free Chlorine: 0 ... 20 mg/l

Chlorine Dioxide: 0 ... 20 mg/l

(upon request 0 ... 30 mg/l)

Ozone: 0 ... 10 mg/l Hydrogen Peroxide: 0 ... 30 mg/l

Measuring range: Freely programmable except for H2O2, Standard 0 ... 5 mg/l

Measurment precision: +/- 2 % full scale Resolution: 0.01 mg/l

Sample temperature: 0 °C ... +50 °C Maximum pressure: 6 bar @ 20 °C Conductivity of sample: minimum 50 µS/cm 6 ... 9 (for free Chlorine 6 ... 8)

Ambient temperature: 0 °C ... +50 °C Ambient humidity: 0 ... 90 % rel. @ 40 °C

Protection: **IP 65**

85-265 VAC, 50-60 Hz Supply voltage:

Power consumption

maximum: 10 VA

Water connection: Outside Ø 8 mm,

Sample flow 35 ... 400 l/hour

Control unit

pH of sample:

Outputs: 1-5 x 0/4 ... 20 mA 1x Relay 250 VAC, 4 A,

(NO/NC)

1x digital (NO/NC) Input: Digital interface: microSD-card

Materials

Wall mounting plate: PVC Fittings: PVC, PMMA Control units: ABS

Glass, Gold, Platinum, Graphite Sensors:





