

AquaDMS

System for Disinfection Monitoring



Applications

Potentiostatic measurement of one of the following parameters

- Free Chlorine (HClO, hypochlorous acid)
- Chlorine Dioxide (ClO₂)
- Ozone (O₃)
- Hydrogen Peroxide (H₂O₂)

Industries

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

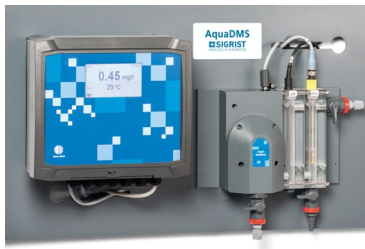
Properties

- 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

AquaDMS

System for Disinfection Monitoring

Innovations with tangible benefits



Complete system

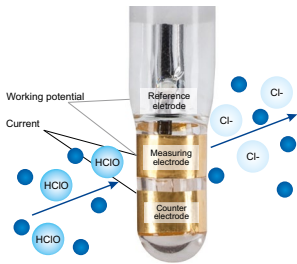
A pre-assembled system with the following components depending on the configuration:

- 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.



Technical Data

AquaDMS System

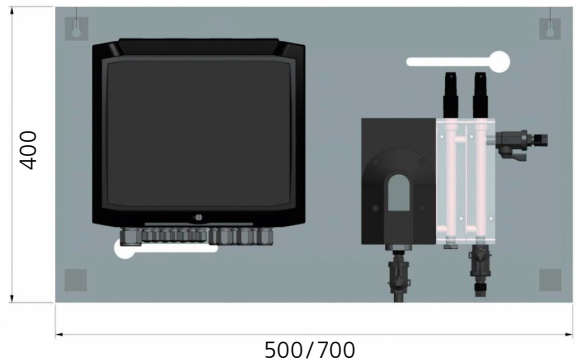
Measuring principle:	Potentiostatic measurement
Measuring span:	Free Chlorine: 0 .. 20 mg/l Chlorine Dioxide: 0 .. 20 mg/l, (upon request 0 .. 30 mg/l) Ozone: 0 .. 10 mg/l Hydrogen Peroxide: 0 .. 30 mg/l
Measuring range:	Freely programmable except for H ₂ O ₂ , Standard 0 .. 5 mg/l +/- 2 % full scale
Measurement precision:	0.01 mg/l
Resolution:	0 °C .. +50 °C
Sample temperature:	0 °C .. +50 °C
Maximum pressure:	6 bar @ 20 °C
Conductivity of sample:	50 µS/cm .. 2 mS/cm
pH of sample:	6 .. 9 (for free Chlorine 6 .. 8)
Ambient temperature:	0 °C .. +50 °C
Ambient humidity:	0 .. 90 % rel. @ 40 °C
Protection:	IP 65
Supply voltage:	85 .. 265 VAC, 50 .. 60 Hz
Power consumption maximum:	10 VA
Water connection:	Outside Ø 8 mm, Sample flow 35 .. 400 l/hour

Control unit

Outputs:	1–5 × 0/4 .. 20 mA 1 × Relay 250 VAC, 4 A, (NO/NC)
Input:	1 × digital (NO/NC)
Digital interface:	microSD-card

Materials

Wall mounting plate:	PVC
Fittings:	PVC, PMMA
Control units:	ABS
Sensors:	Glass, Gold, Platinum, Graphite



photometer.com/adms

Your representative:



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