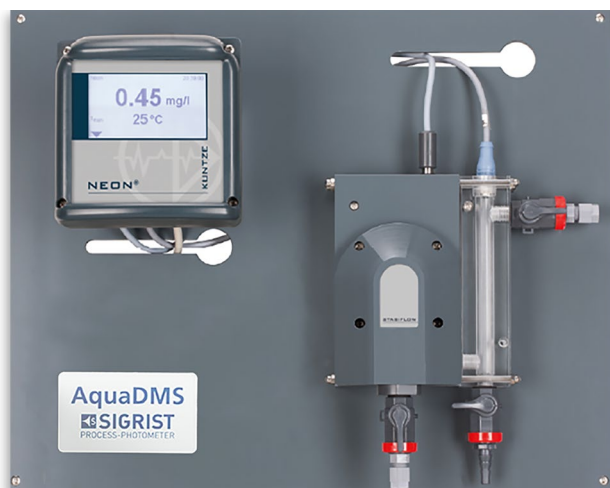


AquaDMS

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

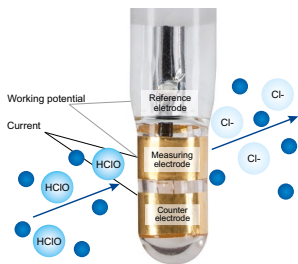
Innovations with tangible benefits



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

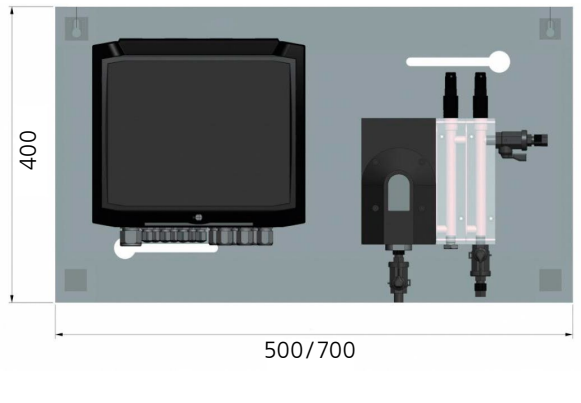
| | |
|----------------------------|--|
| Measuring principle: | Potentiostatic measurement |
| Measuring span: | Free Chlorine: 0 .. 20 mg/l Chlorine Dioxide: 0 .. 20 mg/l, (upon request 0 .. 30 mg/l) Ozone: 0 .. 10 mg/l Hydrogen Peroxide: 0 .. 30 mg/l |
| Measuring range: | Freely programmable except 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 x 0/4 .. 20 mA 1 x Relay 250 VAC, 4 A, (NO/NC) |
| Input: | 1 x digital (NO/NC) |
| Digital interface: | microSD-card |

Materials

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



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Your representative:

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