



AquaGuard PR 30

Multi-parameter measurement with zero water loss

The AquaGuard S allows to measure up to five quality parameters directly in water – without using expensive pumps and without water loss. The portable measurement station consists of an AquaScat S and up to three Hamilton probes. This allows for a flexible adaption to the own requirements. The system is operated with a SICON control unit.

Applications

Combined measurement of

- Turbidity
- -pH
- Conductivity
- Dissolved oxygen
- Temperature

Advantages

- Direct measurement in water
- No water loss
- Customised, flexible solutions

Industries

- Drinking water treatment
- Industrial water treatment



Innovations with tangible benefits



Multiparametermessung ohne Wasserverbrauch

- No installation of expensive pumps or pipes necessary
- Submersion measurement without water loss (min. 0.1 m)
- Reliable measurement at low water level
- Standard equipment with 10 m or 20 m cable, other lengths upon request



Modularity

- Measurement of turbidity according to ISO7027 and temperature in combination with up to three Hamilton probes (pH, ORP, electrical conductivity, dissolved oxygen)
- Simple adaption to specific customer needs
- System can be upgraded at any time



Maintenance -friendly design

- Reliable instrument design for fast and tool-free maintenance
- Re-calibration in the field with solid state reference (AquaScat S) and calibration standards (Hamilton probes)

Control

- Simple control, visualization, and parametrization with SICON M control unit
- Data logging capabilities for up to 32 days
- Simple extension to other state of the art communication platforms like Profibus DP, Profinet IO, etc.

Main technical details

pH, temperature:

Sample conditions:

Measuring range: Turbidity according to ISO 7027/EN 27027

0 ... 4000 FNU

0 ... 14, 0 ... 130°C

see AquaScat S data sheet

ORP, temperature: -1500 mV ... 1500 mV, 0 ... 130° C Conductivity, temperature: 1 ... 300'000 μ S/cm, 0 ... 130° C Dissolved oxygen, temperature: 0.004 ... 25 ppm, 0 ... 130° C

Details and technical data:







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Technical data

Measuring principle

Nominal range turbidity Resolution turbidity

pH Sensor

Measuring quantities pH Nominal range pH

EC Sensor

Measuring quantities

el. Conductivity

Nominal range

el. Conductivity

Oxygen sensor

Measuring quantities

diss. Oxygen

Nominal range diss. Oxygen 0.004 ... 25 ppm

ORP Sensor

Measuring quantities ORP

Nominal range ORP

Sample temperature

Sample Pressure

Ambient temperature

Supply voltage

Power input

Outputs Inputs

Interfaces Options

Protection class

Conformities

90°C scattering light

according to ISO 7027 with LED

0 ... 4000 FNU

0.001 FNU

Potentiostatic measurement

against reference

pH, Temperature [°C, K, °F]

4-Pole measurement

El. Conducitivity uS/cm, mS/cm],

Temperature [°C, K, °F]

1... 300'000 uS/cm

optical measurement (luminescence)

dO2 [µg/L, mg/L, ppm, ppb,

%sat, %Vol], Temperature [°C, K, °F]

Potentiostatic measurement

against reference

ORP [mV], Temperature [°C, K, °F]

-1500 ... 1500 mV

0 ... 50°C

max. 0.5 MPa (5 bar)

0 ... 50°C 24 VDC +/- 10%

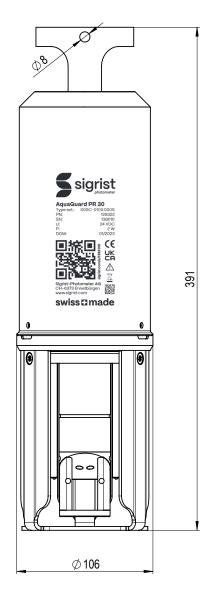
max. 8 W (incl. SICON M)

see SICON M

see SICON M see SICON M

see SICON M

C€ KK



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