



AquaGuard PR 30

Multi-parameter measurement with zero water loss

The AquaGuard PR 30 allows to measure up to five quality parameters directly in water – without using expensive pumps and without water loss. The portable measurement system 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
- ORP
- Dissolved oxygen
- Temperature

Advantages

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

Industries

- Drinking water treatment
- Industrial water treatment



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Innovations with tangible benefits

Multi-parameter measurement with zero water loss - No installation of expensive pumps or pipes necessary - Submersion measurement without water loss (min. 0.1 m)

- Standard equipment with 10 m or 20 m cable, other lengths

- Reliable measurement at low water level







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 Measuring range:

 pH, temperature:
 0 ... 14, 0 ... 130°C

 ORP, temperature:
 -1500 mV ... 1500 mV, 0 ... 13

 Conductivity, temperature:
 1... 300'000 μS/cm, 0 ... 130°C

 Dissolved oxygen, temperature:
 0.004 ... 25 ppm, 0 ... 130°C

 Sample conditions:
 see AquaScat S data sheet

Turbidity according to ISO 7027/EN 27027 0 ... 4000 FNU 0 ... 14, 0 ... 130°C -1500 mV ... 1500 mV, 0 ... 130°C 1 ... 300'000 µS/cm, 0 ... 130°C 0.004 ... 25 ppm, 0 ... 130°C see AquaScat S data sheet

Details and technical data:







AquaGuard PR 30

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

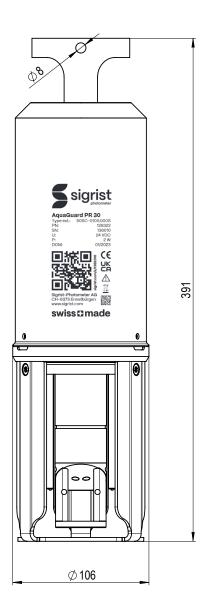
Nominal range diss. Oxygen0.004 ... 25 ppmORP SensorPotentiostatic m

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] 0 ... 14 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 IP68 **CE** KK



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