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ProDetec
Measure . Prevent . Protect . Control

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

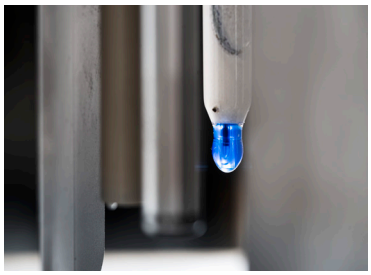
- Direct measurement in water
- No water loss
- Customised, flexible solutions

Industries

- Drinking water treatment
- Industrial water treatment

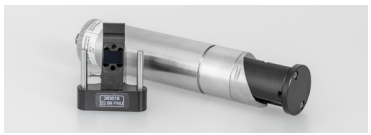
Innovations with tangible benefits

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

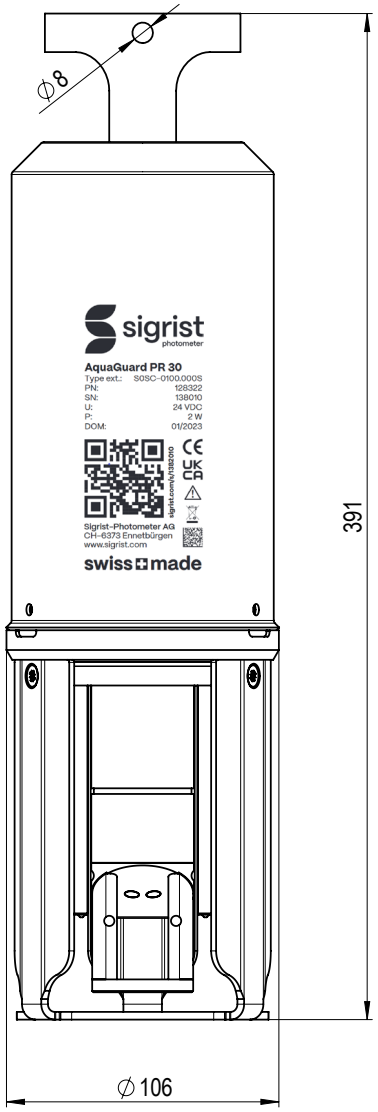
Measuring range:	Turbidity according to ISO 7027/EN 27027 0 ... 4000 FNU
pH, temperature:	0 ... 14, 0 ... 130°C
ORP, temperature:	-1500 mV ... 1500 mV, 0 ... 130°C
Conductivity, temperature:	1 ... 300'000 µS/cm, 0 ... 130°C
Dissolved oxygen, temperature:	0.004 ... 25 ppm, 0 ... 130°C
Sample conditions:	see AquaScat S data sheet

Details and technical data:

AquaGuard PR 30

Technical data

Measuring principle	90°C scattering light according to ISO 7027 with LED
Nominal range turbidity	0 ... 4000 FNU
Resolution turbidity	0.001 FNU
pH Sensor	Potentiostatic measurement against reference
Measuring quantities pH	pH, Temperature [°C, K, °F]
Nominal range pH	0 ... 14
EC Sensor	4-Pole measurement
Measuring quantities el. Conductivity	El. Conducitivity uS/cm, mS/cm], Temperature [°C, K, °F]
Nominal range el. Conductivity	1 ... 300'000 uS/cm
Oxygen sensor	optical measurement (luminescence)
Measuring quantities diss. Oxygen	dO2 [µg/L, mg/L, ppm, ppb, %sat, %Vol], Temperature [°C, K, °F]
Nominal range diss. Oxygen	0.004 ... 25 ppm
ORP Sensor	Potentiostatic measurement against reference
Measuring quantities ORP	ORP [mV], Temperature [°C, K, °F]
Nominal range ORP	-1500 ... 1500 mV
Sample temperature	0 ... 50°C
Sample Pressure	max. 0.5 MPa (5 bar)
Ambient temperature	0 ... 50°C
Supply voltage	24 VDC +/- 10%
Power input	max. 8 W (incl. SICON M)
Outputs	see SICON M
Inputs	see SICON M
Interfaces	see SICON M
Options	see SICON M
Protection class	IP68
Conformities	CE UK CA



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