Industrial
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ISO 7027/EN27027

AquaMaster

Multiparametric Measurement System for Water Treatment Plants

Product Description

AquaMaster is a complete and compact modular measuring instrument that measures turbidity (in all available AquaScat variants), pH, conductivity, redox / ORP, dissolved oxygen, temperature. It measures the turbidity of drinking water according to IEC 27027 using 90+° scattered light detection **in a free-falling water stream**. This non-contact design eliminates window film and minimizes maintenance. Calibration control is performed with a calibration unit mounted for checking or already integrated.

Maintenance

- Measurement of turbidity in raw water
- Monitoring of flocculation and dosing of flocculants
- Control of filtration, filter performance, and backwashing
- Measurement of turbidity in treated and final water
- Turbidity monitoring of water in tanks and distribution networks
- Measurement of turbidity in process and wastewater
- Non-contact measurement on free-falling flow (WTM, WTM A, HT models)
- Dual-beam measurement in an optimized flow cell (P model), with automatic fouling compensation
- Automatic recalibration with secondary standard (fully automatic in the WTM A model)
- Extremely low stray light levels
- Practically maintenance-free
- Convenient operation via touch screen
- Graphical display of trends and/or values
- Representation of measured values from the past mont

Technical specifications of the device

Dimensions (W × H × D)	approximately 55 × 115 × 40 cm
Sample temperature	from 0 to +40 °C
Maximum pressure	0,6 MPa (6 bar)
Ambient temperature	from 0 to +50 °C
Ambient humidity	from 0 to 100% RH
Protection rating	Minimum IP54
Power supply	100 – 240 VAC, 47 – 63 Hz or 18 – 30 VDC
Power consumption	10 W

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AquaScat Turbidimeter

Measuring principle	90° scattered light according to ISO 7027 / EN 27027
Units of measurement	FNU, NTU
Measuring range	0 – 4,000 FNU (WTM, HT models) | 0 – 100 FNU (P model)
Additional specifications	See AquaScat technical datasheet

pH Sensor

Measuring principle	Potential measurement against a reference
Units of measurement	pH, temperature
Measuring range	pH 0 – 14

Conductivity Sensor

Measuring principle	4-pole measurement
Units of measurement	µS/cm, mS/cm, temperature
Measuring range	1 – 300.000 µS/cm

Dissolved Oxygen Sensor

Measuring principle	Optical (luminescence)
Units of measurement	µg/l, mg/l, ppb, ppm, % di saturazione, % by volume, temperature
Measuring range	4 ppb – 25 ppm

Redox / ORP Sensor

Measuring principle	Potential measurement against a reference
Units of measurement	mV, temperature
Measuring range	–1.500 – +1.500 mV

DOC (UV absorption) / Colour (Hazen) – ColorPlus

Measuring principle	Absorption
Measured values	E, E/m, Hazen, GOST
Measuring range	0 – 3 E 0 – 60 E/m 0 – 420 Hazen @ 390 nm
Additional specifications	See ColorPlus technical datasheet

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