

ColorPlus The PLUS in Nitrate Measurement



Applications

Nitrate measurement

Industries

• Treatment of drinking water

Properties

- · On-line measurement of nitrate concentration
- Dual path lenght measurement for a wide measuring range
- Detection of window fouling with cleaning request
- Compensation of window fouling, DOC and turbidity
- Flow cell easy to clean without tools
- Elimination of turbidity influence by filters in the sample line
- Automatic instrument verification

ColorPlus The PLUS in the Nitrate Measurement

Innovations with tangible benefits



Device configuration

The instrument is equipped with different optical filters:

- 2 filters for automatic instrument verification
- 1 filter for nitrate measurement
- 1 filter for window fouling/DOC/
- turbidity compensation

The measuring cell

any tools.

cleaning.

Technical Data

Device Measuring principle: Nitrate: Reproducibility:

Resolution: Measurig ranges: Units: Ambient temperature: Enclosure material: Protection degree: Weight:

Measuring cell

Material: Path lengths Nitrate: Window material: Seals: Sample temperature: Sample pressure: Sample flow: Connections:

Control unit SICON

Power supply: Power consumption: Display: Operation: Ambient temperature: Ambient humidity: Protection degree:

Outputs:

Inputs: Digital interfaces:

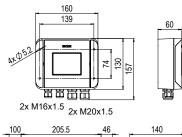
Optional modules (max. 2):

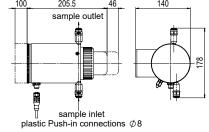
Absorption 0 .. 100 mg/l Nitrate +/- 0.1 mg/l resp. +/- 1% value 0.01 mg/l 8, freely configurable mg/l -20 °C .. +50 °C Stainless steel 1.4301 IP 67 3.4 kg

PVC 5/1.5 mm Ouarz EPDM 0 .. 50 °C 600 kPA (6 bar) 0.5 .. 1 l/min Push fit 8 mm / G ¼" thread

24 VDC +/- 10% 8 W, including sensor ¼ VGA, 3.5" Touchscreen -20 °C .. +50 °C 0...100% RH IP 66

4 x 0/4 .. 20 mA galv. separated 7 x digital, freely configurable 5 x digital, freely configurable Ethernet, micro-SD card, Modbus TCP Profibus DP, Modbus RTU, HART, Profinet IO, 4 x 0/4 .. 20mA outputs, galv. separated 4 x 0/4 .. 20 mA inputs





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Measuring with two path lengths

• The PVC cover can be opened without

Cover removal allows free access for

- The measuring with two path lenghts allows to:
- Increase the accuracy of the instrumet over a wide measuring range.
- Determine the window fouling and inform the user when a cleaning is needed.

Wall mounting-set

Device to fit all components of the system (Instrument, SICON, filtration unit, measuring cell drainage, flow meter and pressure valve):

- · Compact measuring station.
- · Simple and fast installation and commissioning.

Intelligent control system

The SICON control unit with state-ofthe-art touch screen technology and colour display:

- Values, graphs, alarm and status messages can be presented.
- · An internal data logger allows recalling and displaying measured data of the last 32 days.







J)	14.08.2019 15:09:54	Modbus #1 IP 192.168.3.106
	4.99	C1 N03- mg/l
	0.2	C2 Fouling %
	6.4	Humidity %
		Inactive

Menu Valu Info Diag

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