

ColorPlus

The PLUS in Nitrate and UV Absorption Measurement with Colour Option



Applications

- Nitrate measurement
- DOC (UV absorption) measurement
- · Colour (Hazen) measurement

Industries

- Treatment of drinking water
- Treatment of process water in various industries

Properties

- On-line measurement of nitrate concentration
- On-line measurement of DOC (UV absorption) with colour (Hazen) option
- Compensation of window fouling
- Flow cell easy to clean without tools
- Elimination of turbidity influence by filters in the sample line
- · Automatic instrument verification

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Innovations with tangible benefits



Multiple device configurations

The instrument is equipped with different filters, depending on the application:

- Filter for nitrate measurement
- Filter for DOC (UV absorption) measurement & optional filter for color (Hazen) measurement
- · 2 filters for automatic instrument verification
- · Optional filter for turbidity compensation



- The PVC cover can be opened without
- Cover removal allows free access for cleaning



Window fouling

The window fouling is determined with the use of two different optical path lengths. The influence is calculated:

- The measured values are automatically corrected.
- The instrument informs the user when the fouling compensation is out of range and the cell needs to be cleaned.



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

- Compact measuring station
- · Simple & 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.



Device

Measuring principle: Wavelengths: Measuring span:

2 mm 1 mm

UV absoprtion: 100 mm 50 mm

100 mm Hazen: 50 mm

Resolution:

Measurig ranges: Units: Ambient temperature: Enclosure material:

Protection degree: Weight:

Measuring cell

Material Path lengths Nitrate: Path lengths UV absorption: Window material:

Sample temperature: Sample pressure: Sample flow:

Connections:

Control unit SICON Power supply: Power consumption:

Display: Operation:

Ambient temperature: Ambient humidity: Protection degree:

Outputs:

Digital interfaces:

Optional modules (max. 2):

160

Absorption

1..3 in the range 200-800 nm

0 .. 3 E

0 .. 50 mg/l Nitrate 0 .. 100 mg/l Nitrate

0 .. 30 E/m

0 .. 60 E/m 0 .. 300 Hazen @ 390 nm

0 .. 150 Hazen @ 390 nm

0.001 F

8, freely configurable E, E/m, Hazen, GOST, mg/l -20 °C .. +50 °C Stainless steel 1.4301

IP 67 3.4 ka

PV/C

IP 66

1/10 mm, 2/10 mm 50/10 mm, 100/10 mm

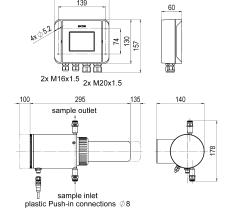
Quarz **EPDM** 0 .. 50 °C 600 kPA (6 bar) 0.5 .. 1 l/min

Push fit 8 mm / G 1/4" thread

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

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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