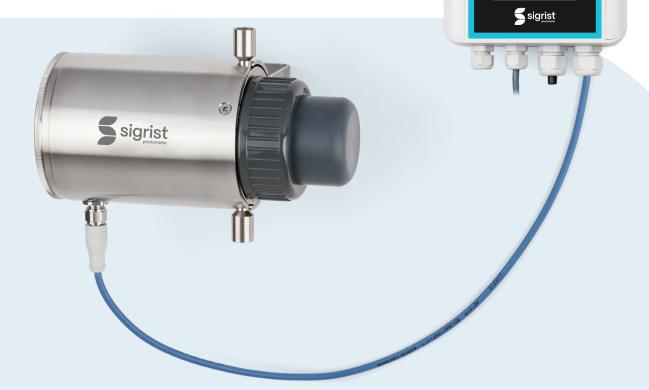




SICON

ColorPlus 3 Nitrat

On-line-monitoring in nitrate concentration



Properties

- On-line measurement of nitrate concentration
- Simultaneous measurement on two optical path lengths to compensate for window fouling and to increase the measuring range
- Integrated compensation of DOC and turbidity
- Flow cell easy to clean without tools
- Automatic instrument verification

Applications

- Nitrate measurement

Industries

- Treatment of drinking water

Innovations with tangible benefits

Device configuration

- The instrument is equipped with different optical filters:
- 2 filters for automatic calibration verification
- 1 filter for nitrate measurement
- 1 filter for DOC and turbidity



Measuring cell with a clever design

- Tool-free access
- Easy cleaning of the components in the measuring cell (window, sample distributor)



Measuring with two optical path lengths

- The measuring with two path lenghts allows to:
- Increase the accuracy of the instrument over a wide measuring range
- Compensation of window fouling
- Automatic warning by the unit in case of high window contamination



07.02.2022 11:56:36	Modbus #1 IP 192.168.3.104
0.80	M1 254comp E/m
2.9	M2 400comp Hazen
1.46	C1 254nm E/m
3.6	C2 400nm Hazen
Menu Valu Info Diag	

Complete wall mounting set

Plate with 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-of-the-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.

Details and technical data:





ColorPlus 3 Nitrat

Datenblatt

Device

Measuring principle: Measuring range:

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:

Absorption 0 ... 100 mg/l Nitrate (0 .. 20 mg/l) N03-N +/- 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 Quarz EPDM 0 ... 50 °C 600 kPA (6 bar) 0.5 ... 1 l/min Push fit 8 mm / G ¼" thread

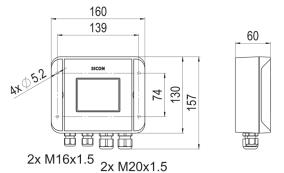
24 VDC +/- 10% max. 8 W, including photometer ¼ VGA, 3.5" Touchscreen -20 °C ... +50 °C 0 ... 100% RH IP 66

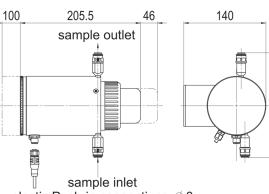
4 x 0/4 ... 20 mA galv. separated 7 x digital, freely configurable

Inputs: Digital interfaces: Modbus TCP Optional modules (max.

5 x digital, freely configurable Ethernet, micro-SD card,

Optional modules (max. 2): Profibus DP, Modbus RTU, HART, Profinet IO, $4 \times 0/4 \dots 20$ mA outputs, galv. separated $4 \times 0/4 \dots 20$ mA inputs





plastic Push-in connections $\emptyset 8$



ProDetec Pty.Ltd.

- P. +61 (02) 9620 8700
- F. +61 (02) 9620 8755
- E. info@prodetec.com.au

78

A. 17/38 Powers Rd, Seven Hills NSW 2147 www.prodetec.com.au