

ColorPlus

The PLUS in UV and Colour Measurement



Applications

- DOC (UV absorption) measurement
- Colour (Hazen) measurement
- Measurement of the elimination of micropollutants

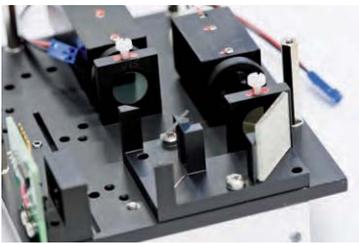
Industries

- Treatment of drinking water
- Waste water treatment
- Process water in various industries

Properties

- Combined online measurement of DOC (UV absorption) and colour (Hazen) in one instrument
- Optical compensation of window soiling
- Dual beam measurement for high stability
- Flow cell easy to clean without tools
- Fast and simple verification with control unit
- Turbidity compensation by means of an additional light source (optional)

Innovations with tangible benefits



Multiple device configurations

Up to three light sources can be installed in the instrument. This allows simultaneous measurement of DOC (UV absorption) and colour (Hazen) and compensation of turbidity:

- Two measurements are available in one instrument.
- The real colour is measured.
- DOC (UV absorption) is measured without the influence of turbidity.



Flow cell and cover with screws

The cover of the flow cell can be opened without tools:

- Allows simple access for cleaning the flow cell.
- Cleaning involves little effort.



Compensation glass

Soiling of the flow cell is measured by means of a compensation glass in the interior of the flow cell:

- The effect of cell soiling is greatly reduced internally.
- Constant and precise measured values are guaranteed.
- The user is alerted if the cell has to be cleaned.



Checking unit

For inspecting the instrument, checking units on the basis of reference filters can easily be inserted:

- A checking unit is included in the basic configuration and allows the checking of high absorption.
- Further checking units are available for checking various measuring points.



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 from the last 32 days.

Technical Data

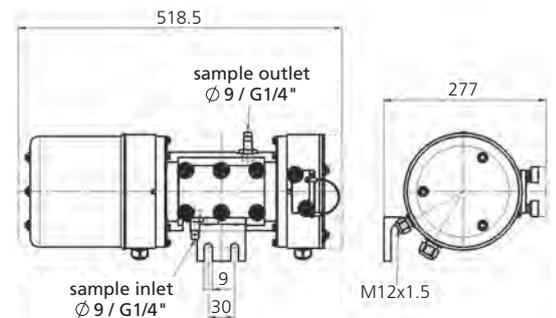
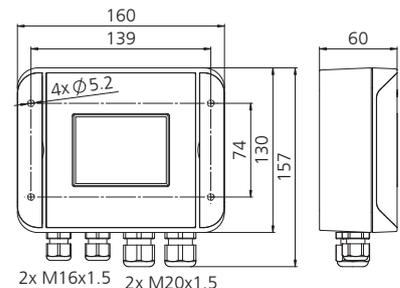
Device:
 Measuring principle: Absorption
 Wave length UV lamp: 254, 313, 365, 436, 546 nm
 Wave length LED: 365, 380 – 700 nm
 Measuring span: 0 .. 3 E
 0 .. 60 E/m
 0 .. 420 Hazen@390nm
 0.001 E
 Resolution: 8, freely configurable
 Measuring ranges: E, E/m, Hazen, GOST
 Units: -20 .. +50 °C
 Ambient temperature: Stainless steel 304 / 1.4301
 Enclosure material: IP 65
 Protection degree: 4.3 Kg
 Weight:

Flow cell:

Material: PVC 100mm / 50mm
 Window material: Borosilicate (VIS), quartz (UV)
 Seals: EPDM
 Sample temperature: 0 .. 50 °C
 Sample pressure: 600 kPa (6 bar)
 Sample flow: 0.5 .. 1 l/min
 Connections: inlet / outlet Ø 9mm o.d.

Control unit SICON:

Power supply: 9 .. 30 VDC
 Power consumption max.: 8 W
 Display: 1/4 VGA, 3.5"
 Operation: Touchscreen
 Ambient temperature: -10 .. +50 °C
 Ambient humidity: 0 .. 100% RH
 Protection degree: IP 66
 Outputs: 4 x 0/4 .. 20 mA, galv. separated
 7 x digital
 Inputs: 5 x digital, freely configurable
 Digital interfaces: Ethernet, microSD-card, Modbus TCP
 Optional modules (max. 2): Profibus DP, Modbus RTU, HART
 4 x 0/4 .. 20 mA outputs, galv. separated
 4 x 0/4 .. 20 mA inputs



Your representative:



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