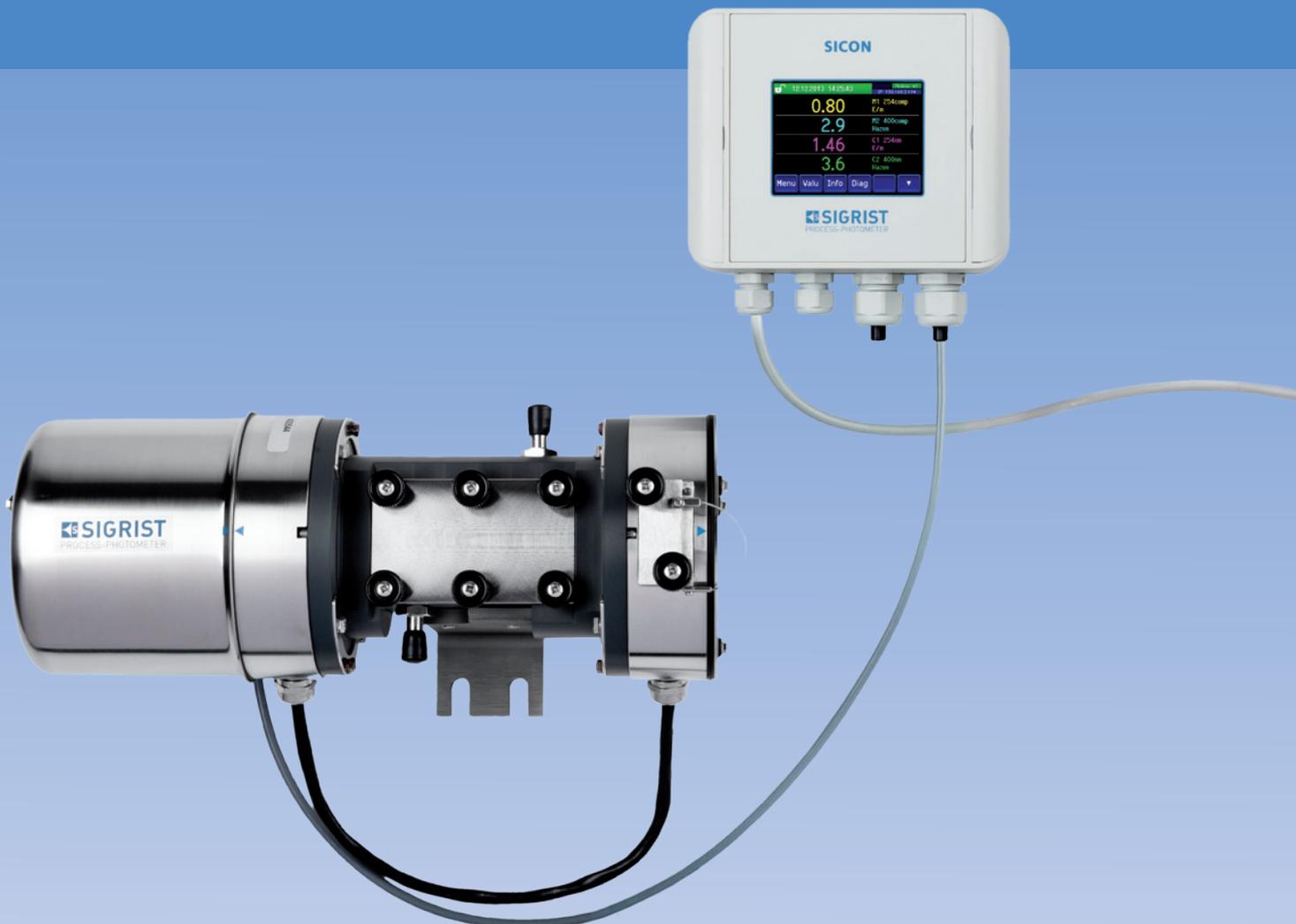


# ColorPlus

## The PLUS in UV and Colour Measurement



### Applications

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

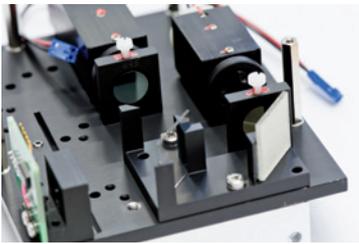
### Industries

- 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:

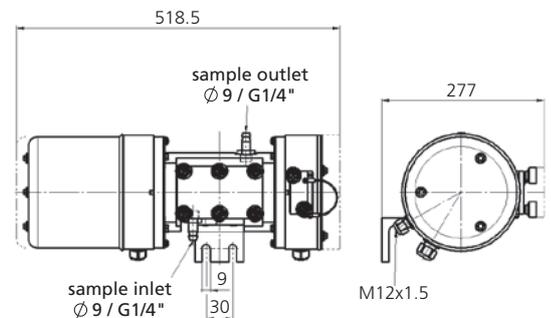
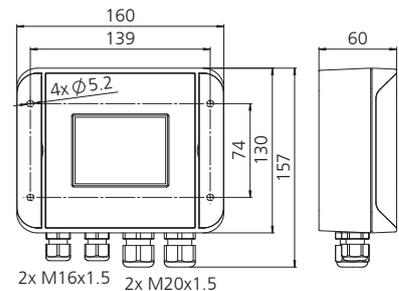
Measuring principle: Absorption  
 Wave length UV lamp: 254, 313, 365, 436, 546 nm  
 Wave length LED: 365, 380 – 700 nm  
 Measuring span: 0 .. 3 E  
 0 .. 60 E/m  
 0 .. 420 Hazen@390nm  
 0.001 E  
 Resolution: 8, freely configurable  
 Measuring ranges: E, E/m, Hazen, GOST  
 Units: -20 .. +50 °C  
 Ambient temperature: Stainless steel 304 / 1.4301  
 Enclosure material: IP65  
 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: VIS 9 .. 30 VDC / UV 22 .. 24 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: IP66  
 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



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