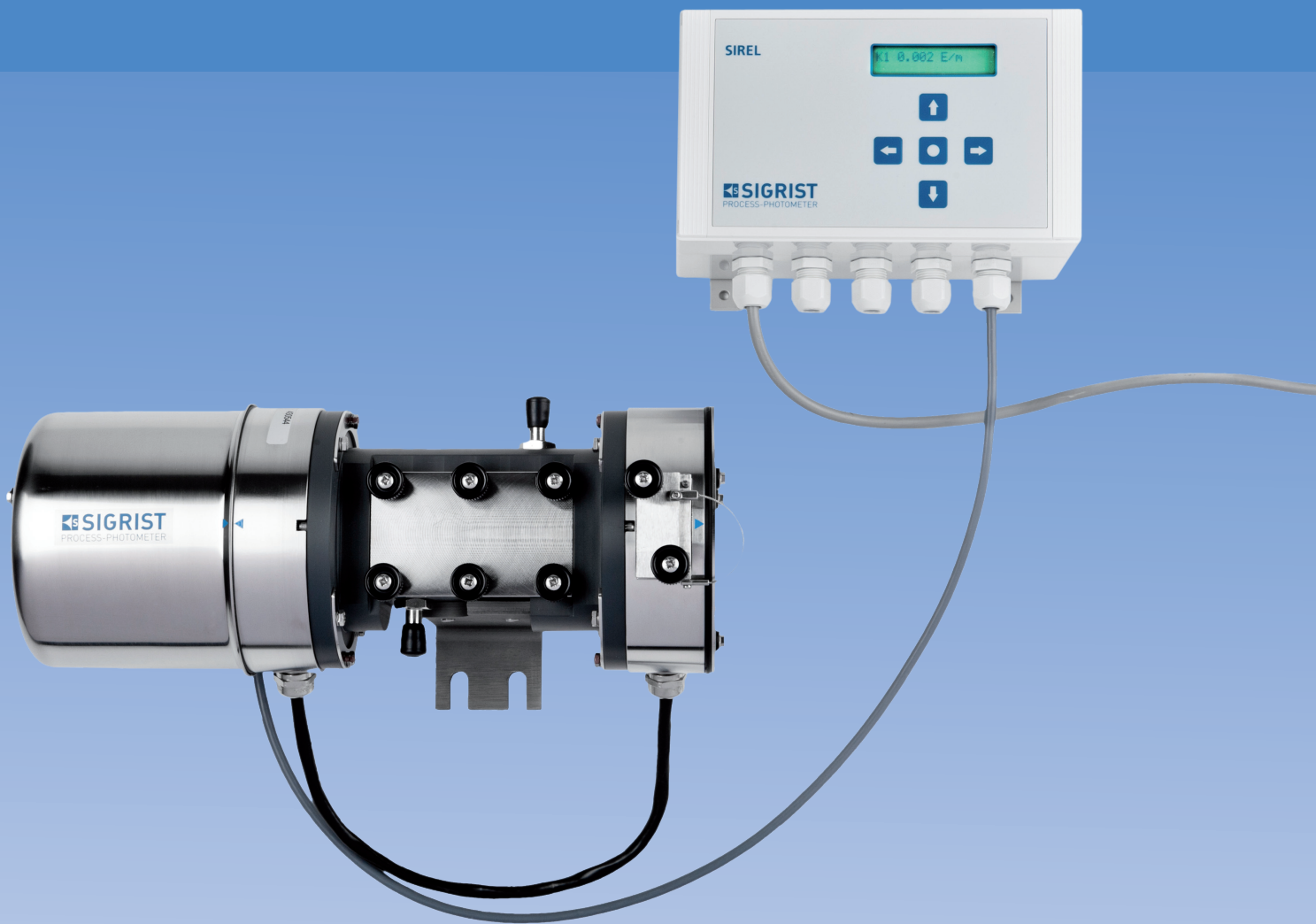


# ColorPlus

## The PLUS in UV and Colour Measurement



### Applications

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

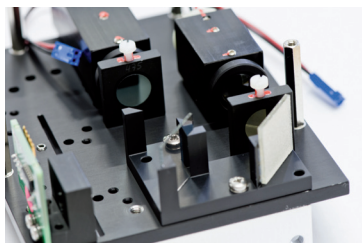
### Industries

- 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.



#### Life cycle costs

Long-life cycle and as little maintenance as possible are the focus of the design of this instrument.

- No maintenance contract is necessary. The customers can carry out maintenance by themselves.
- Low cost of consumables.
- Hardly any device failure; cost-efficient spare parts.

### Technical Data

#### Device:

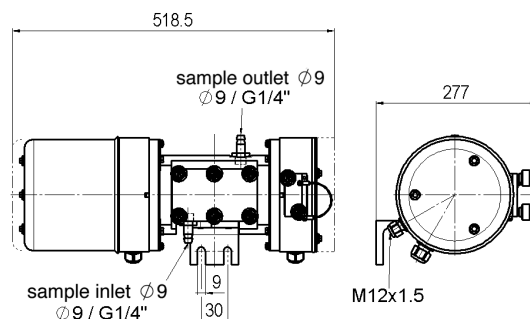
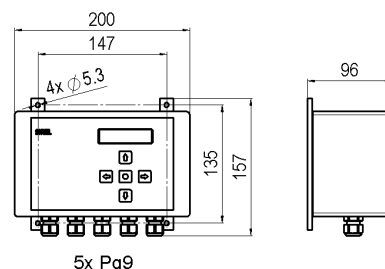
Measuring principle:	Absorption
Wave length UV lamp:	254, 313, 365, 436, 546 nm
Wave length LED:	365, 380 – 700 nm
Measuring span:	0 .. 3 E 0 .. 60 E/m 0 .. 420 Hazen@390nm
Resolution:	0.001 E
Measuring ranges:	8, freely configurable
Units:	E, E/m, Hazen, GOST
Ambient temperature:	-20 .. +50 °C
Enclosure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

#### 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 SIREL:

Power supply:	90 .. 264 VAC, 47 .. 63 Hz, alternatively 18 .. 36 VDC
Power consumption max.:	21 W (UV lamp), 12 W (LED)
Display:	LC-display with plain text information
Analogue outputs:	2 x 0/4..20 mA 2 x relay 250 VAC, 4A
Digital outputs:	Profibus DP (optional)
Protection degree:	IP 65
Weight:	1.5 Kg



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