

ColorPlus

The Plus in colour and concentration measurement



Applications

- Colour and absorption measurement in liquids and gases
- Concentration measurement of substances based on characteristic wavelengths
- Calibration in E, E/m, APHA-Hazen, ASTM, Saybolt, ICUMSA etc.

Industries

- Chemical/pharmaceutical industries
- Galvanic industry
- Sugar industry
- Pulp/paper industry
- Water treatment

Advantages

- Multiple device configurations
- · Numerous application-specific flow cells
- Turbidity compensation using an additional light source (optional)
- Fast and simple verification with checking unit
- Control unit with colour touch screen display
- Smooth system integration using various communication interfaces

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Innovations with tangible benefits



Multiple device configurations

A large number of light sources are available from UV 254 nm to VIS 760 nm. Thus, the ColorPlus can be exactly tailored to

Up to 3 light sources can be installed in the instrument. This allows:

- Several parameters to be measured simultaneously.
- Impact of turbidity to be compensated.
- The true colour to be measured.

Customer-specific flow cells / little and simple maintenance

The flow cells can be adapted precisely to your application:

- Inline or bypass flow cells.
- PVDF flow cells for corrosive chemicals.
- Varivent® connections in all common
- Flow cells with heating jacket.
- Sliding measuring cells.

These allow:

• Simple cleaning or recalibration.



Checking unit

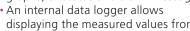
For inspecting the instrument, checking units on the basis of reference filters can easily be inserted:

- 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

Control unit SICON with state-of-the-art touch screen technology and colour dis-

- The display selectively shows values, graphs, or status and alarm messages.
- displaying the measured values from the last 32 days.



Life cycle costs

This instrument was designed with a focus on longevity and little maintenance:

- The maintenance is simple and can be carried out by the customer.
- · Highest reliability.

Technical data

Device:

Measuring principle: Wave length UV lamp: Wave length LED: Measuring span:

Resolution: Measuring range: Units:

Ambient temperature: Material housing: Degree of protection: Weight:

Flow cell:

Material:

Window material:

Sealing:

Sample temperature:

Sample pressure: Sample quantity:

Connections:

Control unit SICON:

Power supply: Power input max.: Display: Operation: Ambient temperature:

Ambient humidity: Protection class: Output:

Input:

Digital interfaces:

Optional modules (max. 2):

Absorption 254, 313, 365, 436, 546 nm

365 .. 760 nm 0 .. 3 E 0 .. 60 E/m

0.001 E 8, freely configurable E, E/m, Hazen, ASTM, Saybolt,

ICUMSA etc. −20 .. +50 °C Stainless steel 1.4301

IP65 4.3 Kg

Stainless steel 1.4404, 1.4435, PVDF, PVC Borosilicate (VIS), quartz (UV), sapphire

EPDM, NBR, FPM, FFPM Depending on flow cell material, max. of +110 °C

600 kPA (6 bar) Depending on flow cell and

application Depending on flow cell

VIS 9 .. 30 VDC/UV 22 .. 24 VDC 8 W 1/4 VGA, 3.5" Touch screen −10 .. +50 °C

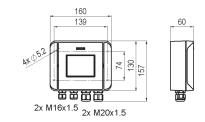
0 .. 100 % rel. F. IP66 $4 \times 0/4$.. 20 mA, galv. separated,

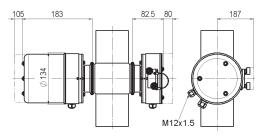
7 × digital 5 × digital, can be configured independently

Ethernet, microSD-card, Modbus TCP

Profibus DP, Modbus RTU, HART $4 \times 0/4$.. 20 mA output,

galv. separated $\overset{\circ}{4}$ × 0/4 .. 20 mA input







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Your representative:



PROCESS-PHOTOMETER