

ColorPlus Ex

In-line absorptiometer in **Ex-version**





Applications

- · Colour (ASTM, GOST) of diesel/gasoline
- · Colour (Hazen) of acrylic and metacrylic acid
- · Colour (Hazen) of maleic acid and phthalic anhydride
- Colour (Hazen, Saybolt) in organic based oils
- · Colour of spirits at the blending unit

Industries

- Petrochemical industry
- Refineries
- Chemical industry
- Spirits

Advantages

- · Certification according to IECEx/ATEX, protection class Zone 0, Ex d IIC T3/T4/T5/T6 Ga/Gb
- Easy installation using standard Varivent[®] In-line housing
- · Customer specific flow cells on request
- Various window and sealing materials available
- Turbidity compensation by a second wavelength (optional)
- Easy functional check with integrated checking filter
- · Optional calibration with unique sliding measuring cell

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Innovations with tangible benefits









Precise colour measurement

High-quality components, LED-light sources and Swiss precision guarantee reliable colour measurement also in the Ex-field and, if need be, with turbidity compensation:

- Long-term stable, reproducible results for a reliable process flow.
- A minimum of service and maintenance work.
- Low operating costs.

Flexible system integration

The process integration of the Color-Plus Ex can be adapted exactly to the customers' applications:

- Standard Varivent[®] housing with or without flanges.
- Flow cell available with heating or cooling jacket.
- Available in different materials.
- Individual path length adaptation for optimum measuring range and sensitivity.

Quality control

The installed checking glass or the optionally available sliding measuring cell is used for quality control:

- Fast verification of the optically correct measurement.
- Option of a real calibration during an on-going process using a sliding measuring cell.

Continuous Ex-protection

Operation is carried out either via the control unit SIREL SMD in a safe zone or via the SIREL Ex:

- Operating concept is adapted to the respective needs.
- With the SIREL Ex a full range of function is available including display in the hazardous area.

Technical data

Sensor: Measuring principle: Wave length UV-lamp: Wave length LED: Measuring span: Resolution: Measuring ranges: Installation:

Material sensor head: Windows:

Seals: Housing: Sample temperature: Ambient temperature: Protection type: Ex-proof type:

Measuring cells: Standard:

Customized: Materials:

Connections:

Control unit SIREL SMD/SIREL Ex: Power supply:

Power input: Display:

Output:

Dimensions:

Weight:

Protection class:

Ex certification:

Absorption 254, 313, 365, 436, 546 nm 365 .. 760 nm 0...3E 0.001 E 8, freely configurable In-line Varivent[®] housing or compatible. Optional: Customer specific measuring cell Stainless steel 1.4301 Borosilicate glass, quartz or sapphire NBR, EPDM, FPM or FFPM Aluminium AlSi1MgMn, coated -20 .. +195 °C -20 .. +50 °C IP65 Ex d IIC T3/T4/T5/T6 Ga/Gb

In-line Varivent® housing or compatible, DN 40 .. 150 As agreed Stainless steel, PVDF, PVC, Hastelloy® Customized

85 .. 264 VAC, 47 .. 63 Hz or 24 VDC 25 W LC display with plain text information $2 \times 0/4$.. 20mA, max. 600 Ω max. 24V with galvanic isolation, max. 50V to earth. 2 × relay contacts max. 250 VAC, max. 4A. Digital input and output, max. 5V SIREL SMD: 200 × 157 × 96 mm SIREL Ex: 320 × 645 × 203 mm SIREL SMD: approx. 1.5 kg SIREL Ex: approx. 25 kg SIREL SMD: IP65 SIREL Ex: IP66 SIREL Ex: PTB 07 ATEX 1021X IECEx BKI 07.0019 EX NESPI GYJ 02109



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