



ColorPlus 2

The PLUS in the colour monitoring of beer



Applications

- Colour monitoring of beer
- Control of the blending unit

Properties

- MEBAK/EBC/ASBC-compliant measurement of the colour of beer at 430 nm
- Turbidity compensation by using an additional wavelength (optional)
- Condensation-free operation without purge air connection
- Hygienic design
- Standard process connection Varivent®, fully CIP/SIP compatible

- Fast and simple verification with control unit
- Comfortable operation via colour touch screen display

SICON

- Display of values and/or graphs
- Simple system integration

Industries

- Brewing industry











Innovations with tangible benefits

Compact design/large measuring range

Hygienic design. Double-sided mounting in standard Varivent® housing:

- Various different optical elements (OPL-Bits) allow a very large measuring range (max. 0-200 EBC colour)
- Low power consumption as a result of LED technology

Compensation of turbidity

Optional second wavelength at 700 nm for the compensation of turbidity.

Control unit

For checking the instrument, control units based on optical reference filters can simply be used:

- One control unit is included in the basic configuration and allows the verification of high absorption
- Further control units are available for verifying various measuring points

Easy to maintain

- No purge air necessary
- Simple zero adjustment
- Hygienic cleaning (CIP-/SIP compatible)
- Change of sealing by customer
- No replacement of light source as a result of LED technology

Intelligent Control System

The SICON control unit with state-of-theart 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

Main technical details

Measuring principle: Absorption

Wave length LED: 430 nm, optional 700 nm Nominal range: 0 ... 10 - 0 ... 200 EBC colour Resolution: ≥ 0.003 EBC colour

Units: EBC, SRM

Sample temperature: 0 ... +110 °C / +32 ... +230 °F

Cleaning: CIP / SIP compatible up to +120 °C / +248 °F @ 2 h

Protection degree: **IP65**





Full details and technical data:





ColorPlus 2

Technical data

Sensor

Measuring principle: Absorption

Wave length LED: 430 nm, optional 700 nm Nominal range: 0 ... 10 - 0 ... 200 EBC colour

Resolution: ≥ 0.003 EBC colour Measuring ranges: 8, freely configurable

Units: EBC, SRM

Ambient temperature: $-20 \dots +50 \,^{\circ}\text{C} / -4 \dots +122 \,^{\circ}\text{F}$ Sample temperature: $0 \dots +110 \,^{\circ}\text{C} / +32 \dots +230 \,^{\circ}\text{F}$ Cleaning: CIP / SIP compatible upto +120 $^{\circ}\text{C} / +248 \,^{\circ}\text{F} \ @ 2 \text{ h}$

Windows: Borosilicate glass, optional

sapphire

Sealing: EPDM

Installation: In-line housing Varivent®

or compatible

Sample pressure: max. 2.5 MPa (25 bar) can be

reduced due to specification

of measuring cell

Material: Stainless steel 1.4301

Protection degree: IP65

Control unit SICON

Power supply: 9 ... 30 VDC

Power consumption max.: 4 W (with instrument)

Display: 1/4 VGA, 3.5"
Operation: Touchscreen

Ambient temperature: -10 ... +50 °C / +14 ... +122 °F

Ambient humidity: 0 ... 100 % RH

Protection degree: IP66

Outputs: $4 \times 0/4 \dots 20 \text{ mA, galv.}$

separated 7 × digital Inputs: 5 × digital, freely configurable
Digital interfaces: Ethernet, microSD-card,

Modbus TCP

Optional modules (max. 2): Profibus DP, Modbus RTU,

Profitnet

4 × 0/4 ... 20 mA outputs,

galv. separated

4 × 0/4 ... 20 mA inputs





