

ColorPlus

The PLUS in the colour monitoring of beer



Applications

- Colour monitoring of beer
- Control of the blending unit

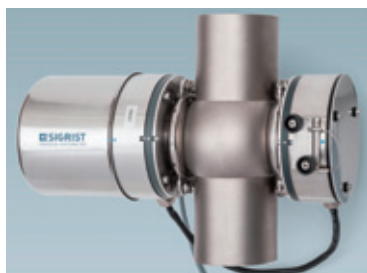
Industries

- Brewing industry

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

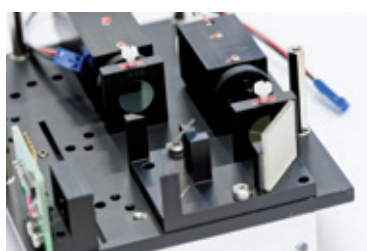
Innovations with tangible benefits



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-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.

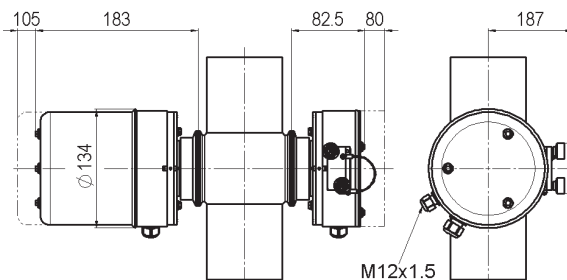
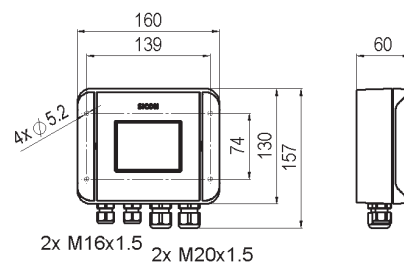
Technical data

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 .. +50 °C / –4 .. +122 °F
Sample temperature:	0 .. +110 °C / +32 .. +230 °F
Cleaning:	CIP/SIP compatible up to +120 °C / +248 °F @ 2 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 type:	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 × 0/4 .. 20 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, HART 4 × 0/4 .. 20 mA outputs, galv. separated 4 × 0/4 .. 20 mA inputs



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