

# ColorPlus 2

The PLUS in the colour monitoring of beer



## Applications

- Colour monitoring of beer
- Control of the blending unit

## Properties

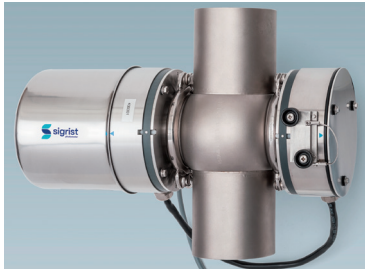
- MEBAK/EBC/ASBC-compliant measurement of the colour of beer at 430 nm
- Turbidity compensation by using an additional wavelength (optional)
- Condensation-free operation without purge air connection
- Hygienic design
- Standard process connection Varivent®, fully CIP/SIP compatible

- Fast and simple verification with control unit
- Comfortable operation via colour touch screen display
- Display of values and/or graphs
- Simple system integration

## Industries

- Brewing industry

## Innovations with tangible benefits



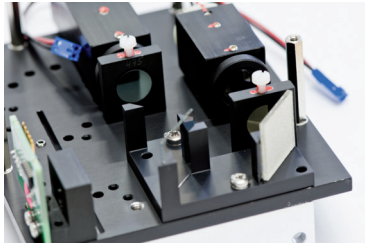
Compact design/large measuring range

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

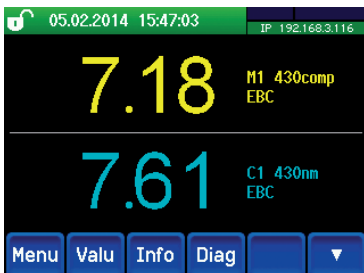
- No purge air necessary
- Simple zero adjustment
- Hygienic cleaning (CIP-/SIP compatible)
- Change of sealing by customer
- No replacement of light source as a result of LED technology



### Intelligent Control System

The SICON control unit with state-of-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



### 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:



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## 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 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 × 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, Profitnet
	4 × 0/4 ... 20 mA outputs, galv. separated
	4 × 0/4 ... 20 mA inputs

