

ColorPlus 2

Ozone in ultrapure water



Applications

- Ozone concentration in ultrapure water

Properties

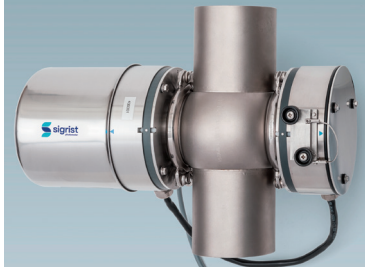
- Direct O₃ measurement in water
- Turbidity compensation by using an additional wavelength (optional)
- Condensation-free operation without purge air connection
- Hygienic design
- Standard process connection Varivent®, fully CIP/SIP compatible
- Fast and simple verification with control unit

- Comfortable operation via colour touch screen display
- Display of values and/or graphs
- Simple system integration

Industries

- Pharmaceutical industry

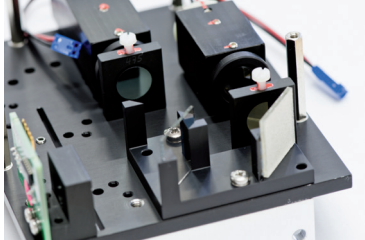
Innovations with tangible benefits



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
- Low power consumption as a result of LED technology
- Easy implementation of turbidity compensation



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



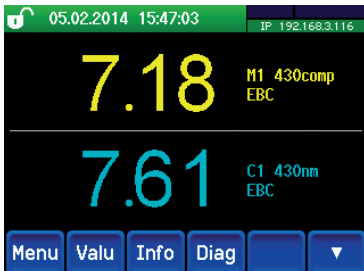
Easy to maintain

- 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 for brewing industry

Measuring principle:	Absorption
Wave length LED:	254 nm, optional 700 nm
Nominal range:	0 ... 150 ppb
Resolution:	0 ... 1.5 ppb
Units:	µg/L, ppb
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

Technical data: Ozone in ultrapure water

Sensor

Measuring principle:	Absorption
Wave length LED:	254 nm, optional 700 nm
Nominal range:	0 ... 150 ppb
Limit of detection:	Approx. 10 ppb
Measuring ranges:	8, freely configurable
Units:	µg/L, ppb
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:	Sapphire glass (recommended)
Sealing:	EPDM (compliant for use in pharmaceutical applications)
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

