

SICON

# TurBiScat

In-line Process
Turbidity Monitor



#### **Applications**

- Filtration monitoring in beverages such as beer, fruit juices, spirits and process water
- Supervision of centrifuges, separators, whirlpools in the beverage industry
- · Turbidity measurement in oils, sugar solutions, food
- Purity control in chemical and pharmaceutical processes

#### **Industries**

- Beverage
- Food
- Chemical Industry
- Pharmaceutical Industry

#### **Advantages**

- · Maintenance-free design without seals
- Removable electronic section with quick lock
- Extended sensor check function with fouling control
- 2-Angle measurement with colour compensation
- Optional colour measurement
- Easy calibration with secondary standard
- Control unit with colour touch screen display
- Variable display of measuring data, graphs, process performance
- Smooth system integration using various communication interfaces

# TurBiScat

## In-line Process Turbidity Monitor

### Innovations with tangible benefits



#### **Sealless Design**

The combination of Hastelloy and sapphire allows operating the unit in practically all process applications - from filtration control in breweries up to turbidity control in chemical processes. It eliminates the need for regular maintenance.



#### **Easy Handling**

The electronic section can be quickly removed from the sensor head with a simple grip using a quick lock, no tools are required. Therefore, the sensor head remains in the pipe line. Possible inspection or service actions can be carried out without interruption of the process.



#### **Monitored Safety**

An extended sensor check function permanently monitors all system parameters in the background. An optical anti-fouling control provides important information about a successful CIP procedure and informs about necessary cleaning and calibration check. Calibration is easily done using a secondary reference standard.



#### **Intelligent Control System**

The new control unit SICON uses stateof-the-art touch screen technology with colour display. It allows simple operation using logical menu guidance. Results displayed can be either plain values, graphs or historical data, including the indication of system and alarm status. The control unit SICON offers all possibilities of full system integration using various interface options. A SD card is standard and can be used for data logging with almost unlimited storage capacity for QS requirments.

#### **Technical Data**

Material housing:

Sensor:

90°/25° Scattered light Measuring principle: LED 650 nm Wavelength turbidity: Wavelength colour (optional): LED 430 nm 0 .. 1000 EBC Measuring range turbidity:

0 .. 4000 NTU Measuring range colour: 0 .. 50 EBC Installation:

In-line housing Varivent® or compatible Material sensor head: Hastelloy C-22 Stainless steel 1.4301

Windows Sapphire Sample temperature: -10 .. +100°C, 180°C with

cooling option CIP/SIP compatible up to Cleaning:

120°C

1 MPa (10 bar) / 100°C Pressure:

Ambient temperature: -10 .. +50°C 0 .. 100% RH IP 66 Ambient humidity: Protection degree:

**Control unit SICON:** 

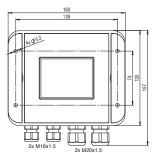
Power supply: 9 .. 30 VDC 8 W Power consumption max .: 1/4 VGA, 3.5" Display: Operation: Touch screen Ambient temperature:

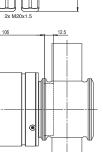
-10 .. +50°C Ambient humidity: 0 .. 100% RH Protection degree: IP 66 Outputs:

4x 0/4 .. 20 mA, galvanic separated, 7x digital outputs, 5x digital inputs,

freely configurable Ethernet, SD-card

Digital Interface: Profibus DP, Modbus, Profinet Optional:





Your representative:



#### SIGRIST-PHOTOMETER AG

Hofurlistrasse 1 · CH-6373 Ennetbürgen Tel. +41 41 624 54 54 Fax +41 41 624 54 55

www.photometer.com