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

- Low-maintenance design without seals
- Removable electronic section with quick lock
- Extended sensor check function with fouling control
- 2-Angle turbidity measurement with colour compensation
- Optional colour measurement
- Easy adjustment 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

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Innovations with tangible benefits

Sealless Design
The combination of Hastelloy and sapphire allows operating sealless unit in practically all process applications – from filtration control in breweries up to turbidity control in chemical processes. It greatly reduces 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 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. Adjustment check is easily done using a standard.

Intelligent Control System
The new control unit SICON uses state-of-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 requirements.

Technical Data

Sensor:

Measuring principle:	90°/25° Scattered light
Wavelength turbidity:	LED 650 nm
Wavelength colour (optional):	LED 430 nm
Measuring range turbidity:	0 .. 1'000 EBC
	0 .. 4'000 NTU
Measuring range colour:	0 .. 50 EBC
Installation:	In-line housing
	Varivent® or compatible
Material sensor head:	Hastelloy C-22
Material housing:	Stainless steel 1.4301
Windows:	Sapphire
Sample temperature:	-10 .. +100°C, 180°C with cooling option
Cleaning:	CIP/SIP compatible up to 120°C
Pressure:	4 MPa (40 bar) / 100°C
Ambient temperature:	-10 .. +50°C
Ambient humidity:	0 .. 100% RH
Protection degree:	IP66

Control unit SICON:

Power supply:	9 .. 30 VDC
Power consumption max.:	8 W
Display:	1/4 VGA, 3.5″
Operation:	Touch screen
Ambient temperature:	-10 .. +50°C
Ambient humidity:	0 .. 100% RH
Protection degree:	IP66
Outputs:	4x 0/4 .. 20 mA, galvanic separated, 7x digital outputs, 5x digital inputs, freely configurable
Digital Interface:	Ethernet, SD-card
Optional:	Profibus DP, Modbus, Profinet

160
139
60
4x ⌀5.2
74
130
157
2x M16x1.5   2x M20x1.5

100   114   12.5
⌀100.5
20.5
M16x1.5
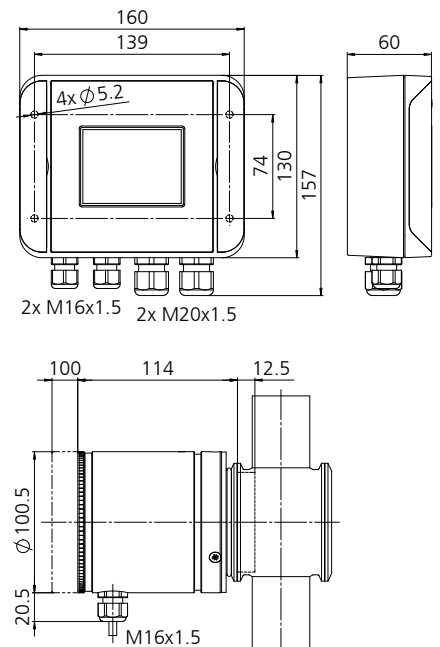
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