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TurBiScat Ex PM 40

Filtration monitoring and control

Product Description

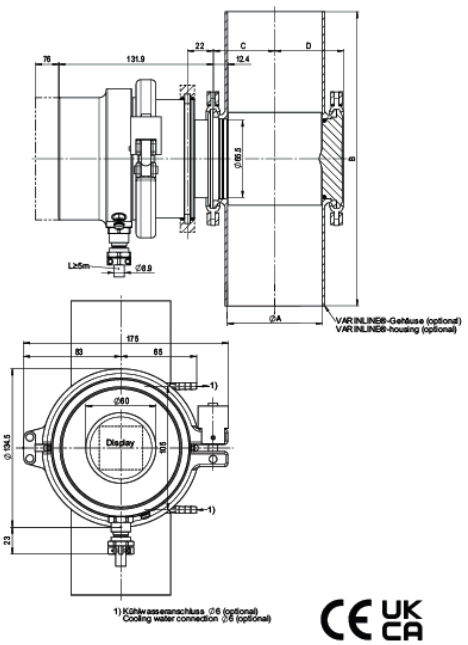
TurBiScat Ex PM 40 measures turbidity to monitor whisky filtration, including cold filtration.
It is easy to install, hygienic, and ensures accurate readings thanks to its two-angle measurement technology. It also operates in Ex zones and can be used via WLAN-enabled devices.

Benefits

Highest quality components and precise workmanship result in a
high measuring span. An optional integrated colour measurement is available:
- One sensor type for numerous applications
- Precise measurement of lowest up to very high turbidity values
- Colour measurement in the same sensor

Integrated Operation and Communication
- Display for measured values and status
- Visualisation of measurement data over the last 7 days
- Proximity sensor for operation
- Configuration via WLAN and integrated web server
- Various communication modules

Monitored Reliability
Formazin is used in the factory to calibrate the TurBiScat Ex PM 40 after assembly. For QC purpose and possible recalibration, a
secondary solid reference standard is available.
- Precise verification and recalibration without the use of Formazin.



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Main technical details

Measuring principle	90° / 25° scattered light (opcional colour measurement)
Conformities	CE, ATEX, IECEx
Wavelength turbidity	LED 650 nm
Wavelength colour (optional):	LED 430 nm
Measuring span turbidity	0 ... 4'000 NTU / 0 ... 1000 EBC
Resolution	0.001 NTU / 0.001 EBC
Measuring span colour	0 ... 200 E/m / 0 ... 50 EBC
Sample temperature	-20 ... +180 °C, depending on the medium and ambient temperature, optional cooling is required.
Ambient temperature	-20 ... +60 °C
Protection degree	IP66

Technical data

Installation	In-line housing VARINLINE® or compatible
Material housing:	Stainless Steel 1.4462/ 1.4404/Borosilicate glass
Windows	Sapphire
Max. pressure	2 MPa (20 bar)
Display	Colour graphic
Operation	Proximity sensor or mobile device directly
WLAN module	WLAN according to IEEE 802.11 b/g/n
Standard Interface (IO):	6 configurable inputs and outputs • Max. 2 digital inputs: 5 ... 28 VDC • Max. 4 digital outputs: High-Side Switch max. 20 mA • Max. 4 current outputs: 0/4 ... 20 mA, max. 700 Ω Modbus RTU
Power over Ethernet:	Ethernet LAN connection with Power over Ethernet (PoE) • Ethernet accoridng to 10/100BaseT • POE according to 802.3af, class 0
EG_Profibus	Profibus DP-V1 Slave
EG_Profinet	Profinet IO Device, Conformance Class B

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