



TurBiScat PM 40

In-Line Turbidimeter



Applications

- Filtration monitoring in beverages such as beer, fruit juices, spirits
- Supervision of centrifuges, separators, whirlpools in the beverage industry
- Turbidity measurement in oils, sugar solutions, food

Advantages

- Sealless design, maintenance-free
- Extended sensor check function with fouling control
- Colour-compensated, 90° / 25° dual-angle measurement
- Optional colour measurement at 430 nm
- Measurement according to MEBAK / EBC / ASBC
- Quick adjustment with secondary standard
- Sensor monitoring regarding humidity and temperature

- Integrated display with colour touch screen display
- optional detached display unit
- Variable display of measuring data graphs, process performance direct on point of measurement
- Smooth system integration

Industries

- Beverage
- Food

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Innovations with tangible benefits









Highest Precision, Large Measuring Span

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 for an attractive price
- Proven measurement system
- MEBAK/EBC/ASBC-conform

Convincing Design

Combination of Hastelloy® and sapphire in a compact, sealless design with LED technology:

- Simple installation in VARINLINE® housings
- Allows operation in practically all process applications
- No need for regular maintenance
- Operates without additional control unit
- Precise verification and recalibration without the use of Formazin
- Permanent humidity and temperature monitoring
- Low TCO

Value display direct at the place of measurement

Das TurBiScat PM 40 can be easily detected in the plant.

- Integrated display with state-of-the-art coloured display technology:
- Provides clear data display with easy touch screen navigation direct at the place of measurement
- Display of up to 4 measured data simultaneously or graphic representation of the measurement readings for up to 7 days (1 day, 1 hour)
- Clear status information with link to support in case of warnings or alarm
- state-of-the-art configuration and value display on the Smartphone

System integration and integrated security

The TurBiScat provides several data interfaces from analogue outputs to process buses for continuous process monitoring

- Permanent accessibility to data and status information
- Integrated threshold monitoring
- Enforced data security
- Secured WLAN-connection
- Secured access to smartphone over web browser

Main technical details

Measuring principle: Wavelength turbidity: Wavelength colour (optional): Measuring span turbidity:

Resolution: Measuring span colour: Sample temperature: Protection degree:

90° / 25° Scattered light LED 650 nm LED 430 nm 0 ... 1'000 EBC 0 ... 4'000 NTU 0.001 EBC 0 ... 50 EBC –10 ... +100 °C IP66

Full details and technical data:



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TurBiScat PM 40

8, freely programmable

In-line housing Varivent®

Stainless Steel 304 / 1.4301

CIP / SIP compatible up to

Up to 4 MPa (40 bar) / 580

-10 ... +50 °C / +14 ... +122 °F

+120 °C / +248 °F @ 2 h

1 MPa (10 bar) / 145 psi

in standard Varivent®

Hastelloy C-22 (2.4602)

0.001 FBC

Sapphire

housing

IP66

psi on request

0...100 % RH

0 ... 50 EBC

or compatible

-10 ... +100 °C

Technical data

Sensor

Measuring principle: 90° / 25° Scattered light Wavelength turbidity: LED 650 nm Wavelength colour (optional): LED 430 nm Measuring span turbidity: 0 ... 1'000 EBC 0 ... 4'000 NTU

Measuring ranges: Resolution: Measuring span colour: Installation:

Material sensor head: Material housing: Windows: Sample temperature: Cleaning:

Pressure:

Display:

Resolution:

WLAN-Modul:

Ambient temperature: Ambient humidity: Protection degree:

TurBiScat PM 40 - S1XX and SiDis AD 40 Supply voltage:

24 VDC ± 10 % (Interface PoE according to standard) Power consumption: Max. 4 W -> depending on communication interface Display: ¼ VGA with Touchscreen 320 x 240 pixel with 2.4" diagonal WLAN according to IEEE 802.11 b/g/n Standard Interface (ED_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: $0/4 \dots 20 \text{ mA}, \text{max}. 700 \Omega$ Modbus RTU

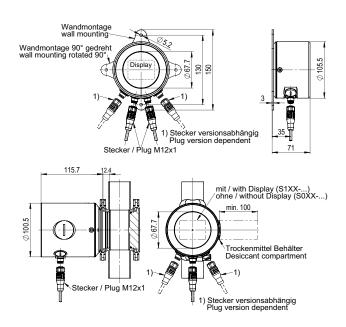
EG_PoE:

EG_Profibus: EG_Profinet:

SiDis AD 40 Protection degree: Weight: **Dimension:** Material housing: Touchscreen:

Ethernet LAN connection with Power over Ethernet • Ethernet accoridng to 10/100BaseT POE according to 802.3af, class 0 Profibus DP-V1 Slave In preparation

IP 66 Ca. 0.4 kg Ø 105.5 x 71 mm PC/ABS UL94 VO Soda-Lime tempering glas



Authorised Distributor:



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