Model MoniTurb-FS (MTFS)

- **Low maintenance**
- **Calibration interval: typical 24 month**
- **Sight glass material: Sapphire**
- **Sight glass cleaning: Via cleaning jet probe**
- **Cleaning in place (CIP)**
- **Process connection: DIN, ANSI, SMS, NPT, APV, TH, …**
- **Optional air purge connection: 4mm**

Description:

The turbidity sensor model MoniTurb-FS uses the principles of 12° forward- and 90° side scattered light to detect particles in liquids. The transmitter model Messenger is required to use this sensor. The system has been designed for continuous operation with long life time. The measuring results of the 12° system are not affected by particle size. The 90° system shows a high sensitivity for small particles (< 0.3 μm). Comparing both measurement values will allow conclusion of particle size distribution inside the liquid. The sensors can be installed into almost any type of pipe. Process connection, gasket material, etc. will be application specific. A ratio measurement of direct- / scatter light assure highly reliable and repeatable measurement results. Inaccuracies caused by product colour, lamp ageing or window coating will be compensated. Calibration can be done in multiple ranges and measurement units like EBC, ppm, mg/l, etc.. Optional cleaning jets will allow a cleaning of the sapphire windows in determined intervals.

Applications:

- Filtration control
- Product quality
- Water / Waste water

Operational areas:

- Chemical industry
- Petrochemical industry
- Power plants
- Brew & Beverage

Technical Data:

Line size:	DN 25 – DN 125 / ½“ - 5“
Process pressure:	PN16 / ANSI class 150
Process temperature:	maximum 140°C
Sensor material:	1.4404 / 316L
Sight glass material:	Sapphire
Gasket material:	application specific
Protection class:	IP65 / NEMA 4X

Measurement range:	typical 0–1ppm, 0–500ppm
Reproducibility:	± 1 %
Detector system:	Silica diodes
Cleaning:	optional cleaning jet probe
Sterilization:	CIP (cleaning in place)
optional hazardous area:	ATEX Zone I or Zone II

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