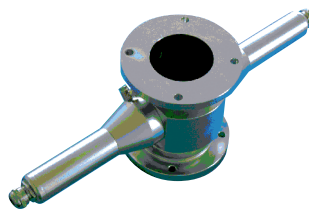


MONITEK® MONITURB

PROCESS TURBIDITY SENSOR

MEASURES TURBIDITY IN LIQUIDS



MoniTurb

APPLICATIONS

The Monitek® MoniTurb sensor, in connection with a Monitek® Messenger transmitter, measures turbidity in liquids. The system can be used for inspection, control and optimization of industrial processes:

- Drinking water • Waste water • Chemical industry • Paper industry
- Biotechnology • Beverages • Ultra filtrate • Filtrate • Pre-filter • Condensate
- Process water • Water in oil / oil in water

DESCRIPTION

The MoniTurb-F turbidity sensor uses the principle of 12° forward scattered light to detect suspended particles in liquids. The ratio of scattered light to direct light assures highly reliable and repeatable measurement results. The 12° scattered light measuring result is dependent on particle size and can be correlated to mass concentration. The sensor can be installed into almost any type of pipe. Process connection, pressure, temperature, gasket material, etc. will be application specific. This product is also available as the MoniTurb-S, which is a 90° side scatter turbidity sensor, and the Moniturb-FS carrying out both forward scatter and side scatter measurements.

The optional feature for hazardous area, Class I Div. 1, Zone I or Zone II, allows for wide range of applications. A maximum cable length of 100 m (approx. 330 feet) allows the converter to be located outside the hazardous area.

FEATURES

- MoniTurb-F uses 12° Forward Scattered Light
- 90° Side Scatter option available: MoniTurb-S
- Combined Forward / Side Scatter option: MoniTurb-FS
- Calibration interval: 12 months
- Color compensation
- Cleaning Jets (optional)
- Protection: NEMA 4X / IP65
- Process connections: DIN, ANSI, SMS, NPT, APV, TH, Tri-Clover.
- Optional hazardous area: Class 1 Div. 1, Ex-zone I and Ex-zone II
- Compatible to converter type: Monitek® Messenger

SPECIFICATIONS

Line sizes: 10 – 100 mm (1/2" – 4")

Process pressure: Max. 220 psig at ambient temp./15 bar

Process temperature: Max. 140° C

Gasket material: Application specific

Sensor material: 316 L SS / 1.4404 (other materials on request)

Optical path length: Depends on pipe size

Cable length: Max. 100 m (330 ft)

Measurement range: 0 - 10 ppm to 0 – 500 ppm

Detector system: Silicone diodes

Accuracy: +/- 2%

Reproducibility: +/- 1%

MONITURB OPTICAL SENSORS

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