MONITEK® MONITURB

PROCESS TURBIDITY SENSOR

MEASURES TURBIDITY IN LIQUIDS



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)

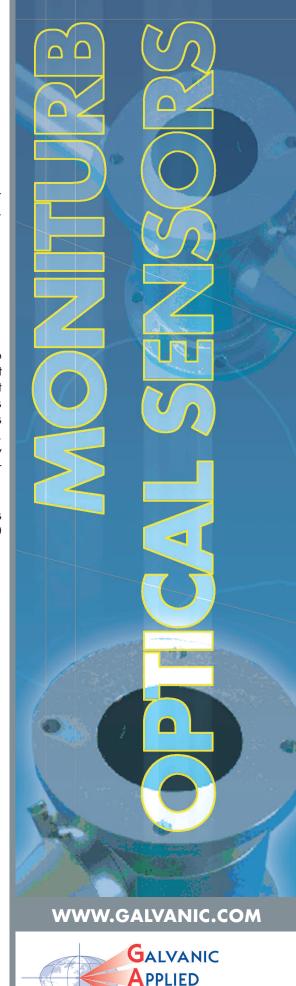
Optical path length: Depends on pipe size

Cable length: Max. 100 m (330 ft)

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

Detector system: Silicone diodes

Accuracy: +/- 2% Reproducibility: +/- 1%



SCIENCES INC.



MONITEK® MONISPEC-A CONCENTRATION, SUSPENDED SOLIDS SENSOR MONISPEC-AD COLOR SENSOR

APPLICATIONS

The Monitek® model MoniSpec-A Sensor in connection with a Messenger transmitter measures suspended solids in liquids. The Monitek® MoniSpec-AD Sensor with a Messenger transmitter measures color changes in liquids. The systems can be used for inspection, control and optimization of industrial processes:

MONISPEC-A

- Drinking water Waste water
- Chemical industry Paper industry
- Petro-chemical industry
- Biotechnology
- Food & Beverage Industry
- Suspended Solids
- Product concentration

MONISPEC-AD

- Drinking water Waste water
- Chemical industry Paper industry
- Petro-chemical industry
- Biotechnology
- APHA/Hazen colour
- Saybolt / ASTM
- Lovibond Color EBC

DESCRIPTION

The concentration sensor model MoniSpec-A uses the principle of light absorption to detect suspended particles in liquids. The sensors can be installed into almost any type of pipe. Process connection, pressure, temperature, gasket material, etc will be application specific.

The model MoniSpec-AD Sensor uses the principle of dual wavelength light absorption to monitor colors in liquids. Dual wavelength measurement assures compensation for turbidity in the sample.

FEATURES

Principle of measurement:

Material:

Protection:

Process connection:

Line size:

Max. pressure:

Max. temperature:

Max. cable length:

Detector system:

Optional hazardous area:

Compatible with:

Gasket material:

Optical path length:

Measurement range:

Accuracy:

Reproducibility:

Calibration Interval:

Cleaning jets:

MONISPEC-A MONISPEC-AD Dual Wavelength Light absorption Light absorption

1.4571 (316 L SS) other materials on request

NEMA 4X (IP 65)

DIN, ANSI, SMS, NPT, APV, TH, Tri-Clover...

10mm to 150mm (1/2" to 6")

220 psig at ambient temp. (15 bar)

140°C

100m (approx. 330 feet)

450 - 850nm

390 - 850nm

Class I Div. 1, Ex-zone I and Ex-zone II

Messenger Transmitter

Application specific

Application specific

Application specific (max. 4 AU)

+ / - 2%

+ / - 1%

12 months

Optional

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