

Relative Turbidity Meter ITM-3

ANALYTICAL

Application / Specified Usage

- Works with accuracy ± 0.005 NTU / ± 0.001 AU
- Input is about 1.5 % of display (ITM-3)

Application Examples

- Phase separation of products (for example: dairy – cream – milk)
- CFP sensors for (monitoring of) process water to product (bottling)
- Visual bacteria in beverages
- Quality control
- Leakage control of filter and gaskets

Hygienic Design / Process Connection

- By using Negele's world best design, I adaptors of the **2.2 MicroClean** system in the field for systems (DIN 11 762) a flow optimized, hygienic and easy cleanable installation will be achieved.
- Version with 2.2 microClean deformable (flex) flange
- CFP / MPF cleaning up to 140 °C / maximum 10 minutes
- Product contacting materials: compliant to FDA
- Seems made of stainless steel
- Optic made of high modulus sapphire glass
- Additional process connection:
- for Cleaning: Airy flange (DIN 11 762), (DIN), Varivent, API or etc.

Features / Advantages

- Front-face sensor
- Independent to reflections at small diameters or electric polished surfaces
- 100 % compatible to systems (DIN 11 762), mechanical and electrical
- No value dependency (sensor length dependent)
- Standard pipe diameter: (DN 15)
- Four measurement ranges, two externally selectable
- High reproducibility: ± 1 % of full scale
- Working output (auto display and bypass) free selectable
- Display output is ... 20 mA (standard)

Options / Accessories

- Electrical connection with PTFE plug in connector
- Process fluid: apply the PTFE plug in connector
- Remote version (for remote and remote expansion)

Measuring Principle of the Relative Turbidity Meter

The infrared diode irradiates infrared light into the media. Particles in the media reflecting the irradiated light which is done to fill the vacuum diode (backscatter principle). The electronics calculates the relative turbidity of the media according to the received signal.

The relative turbidity is based on the Negele calibration standard and is displayed as "NTU".

Authorizations



ITM-3 with DMS 4-20



ITM-LPT sensor with DMS 4-20



Measurement Principle

