

Relative Turbidity Meter ITM-51



Application / Specified Usage

- Relative turbidity measurement of liquid media for entire high turbidity range (0.01... 200.000 NTU equivalent)

Application Examples

- Phase separation of products (for example dairy – cream – milk)
- CFP control line (monitoring of pre-clear water to product following)
- Trace element in beverages
- Quality control
- Leakage control of filter and pumps

Hygienic Design / Process Connection

- Hygienic process connection line with CIP/WiP design
- Complying to 2- & 3-Port sanitary standards (the variants with 200°C design)
- All contact materials are 316L stainless
- Process completely made of stainless steel
- Complete absence of process connection wet under water
- The Anderson-Hegele 2- & 3-Port design system offers a clean optimized hygienic and easy-maintainable installation solution for sensors.

Features / Advantages

- CFP/WiP allowing up to 120 °C, 1 measurement cycle selection
- Power Mode or extended sensor mode
- Optic made of high-resolution sapphire
- Temperature range: stainless to 120 °C
- Independent to reflections at small diameters or electric polished surface
- No cable dependency (cable length 500 cm)
- Stainless pipe diameter 38 (1.5")
- High reproducibility > 95% of full scale
- Backlash support backstop and hydraulic freely adjustable
- Working range 0... 20 cm freely adjustable
- External range switching for even a low measurement range

Options / Accessories

- Electrical connection with 19" plug in connector
- Processable with the 19" plug in connector
- Display module Single Line (0.8" x 1.6") and Large Character Area (2.0")
- Sensor version with cable length up to 20 m

Measuring Principle of the Relative Turbidity Meter

An infrared laser irradiates infrared light into the media. Particles in the media reflecting the transmitted light which is done to stop the infrared light (backscattering principle). The electronics calculates the relative turbidity of the media according to the received signal.

The reproducibility is based on the Hegele calibration standard and is displayed as "NTU".

Communication

-  IO-Link
-  4...20 mA

ITM 51



ITM 50B



Measurement Principle

