

# Relative Turbidity Meter ITM-51



## Application / Specified Usage

Relative turbidity measurement of liquid media for entire high turbidity range (200... 999999 NTU equivalent)

## Application Examples

- Phase separation of products (for example whey – cream – milk)
- CFP control (contaminating of pre-sterile water to product following)
- Yeast harvest in bioreactors
- Quality control
- Leakage control of filter and pipes

## Hygiene Design / Process Connection

- Hygiene process connection (see with G1/4" thread)
- Version available with EHEDG approval
- Version available to conform to 3-A standard (all wetted materials are 316L stainless steel)
- Version completely made of stainless steel
- Complete overview of process connections (see order code)
- The Anderson-Hesse G1/4" thread system offers a flow-optimized hygienic and easy-to-clean sterile installation solution for sensors.

## Features / Advantages

- CFP / CIP cleaning up to max. 120 °C (248 °F) maximum 30 minutes
- Front flush or automatic sensor flush
- Optics made of high-strength sapphire
- Integrated leakage detection in the sensor
- Independent to reflections at small diameters or electric polished surface
- No color dependency (max. length 500 µm)
- Stainless pipe (diameter 18 mm)
- High repeatability: ± 1 % of full scale
- Removal support for maintenance and hygienic freely adjustable
- Measuring range: 0... 20 mNf freely adjustable
- External range switching between two measurement ranges

## Options / Accessories

- Electrical connection with P12 plug in connector
- Pre-wired cable for P12 plug in connector
- Display module (single line interface (SIL) and large character face (LIF))
- Network version with cable length up to 20 m
- Additional instructions are available at [www.anderson-hesse.com](http://www.anderson-hesse.com)

## Measuring Principle of the Relative Turbidity Meter

An infrared diode transmits infrared light into the media. Particles in the media reflecting the transmitted light which is shown by the receiver diode (detection principle). The detector calculates the relative turbidity of the media according to the received signal. The relative turbidity is based on the Hygiene calibration standard and is displayed in "mNf".

## Connectivity

-  IO-Link
-  4...20 mA

## ITM 51



## ITM 52B



## Measurement Principle

