

Turbidity Sensor Model TURBImat-S (TBm-S)



Model TURBImat-S with PVC-U Unions (GF- Fittings)

- Low Maintenance
- NIR LED- Technology (860nm DIN / EN 27027 / ISO7027)
- Wide measuring Range (0-1NTU up to 0-1000NTU)
- Typical calibration Interval 12 Month
- PVC-U Flow Cell (d63 DN50) / PN16 / 50°C
- Access to Sapphire Windows via GF- Fittings
- Ultra fast Window cleaning
- Process connection via Solvent Cement jointing, Flanges or PVC-U Unions (GF- Fittings)

The turbidity sensor Model TURBImat-S uses the principle of 90° side scattered light to detect particles in liquids. The transmitter model Messenger is required to use this sensor. The system has been designed for continuous operation with long life time. The side scatter principle shows a very high sensitivity against small particle sizes (< 0.3 µm) in the liquid. A ratio measurement of direct- / scatter light assure highly reliable and repeatable measurement results. Inaccuracies caused by product color, lamp ageing or window coating will be compensated. Calibration can be done in multiple ranges and measurement units like NTU, FTU, ppm, etc. The sapphire windows of the sensor are accessible via GF- fittings, this allows a very fast window cleaning if required.

Applications:

- Process water
- Potable water
- Product separation
- Centrifuge In- / Outlet
- Filtration control

Areas of Application:

- Chemical Industry
- Waste water treatment
- Food / Beverages Industry
- ...

Technische Daten:

Line size:	DN50 / d63	Measuring range:	typical 0-1 ...1000NTU
Pressure rating:	PN 16	Optical path length:	50mm
Process temperature:	maximum 50°C	Reproducibility:	± 2 %
Sensor material:	PVC-U	Detector system:	Silica Pin diode
Window material:	Sapphire	Measuring wavelength:	860nm
Gasket material:	EPDM (other on request)	Protection class:	IP65 / NEMA 4X