

Model 22S (CSO)



- **Low maintenance**
- **Extended calibration interval: Typical 12 month**
- **Fiber optic technology**
- **Multiple optical path lengths available (maximum 40mm)**
- **Sight glass material: Sapphire**
- **Process insertion through pipe adapter with ball valve**
- **Insertion/removal without process interruption**
- **Optional available with DIN- or ANSI flanges**
- **Compatible to converter models: Messenger and CCAb**

Description:

The turbidity probe model 22S uses the principle of light absorption to detect dissolved or suspended particles in liquids. The transmitter model Messenger or CCAb is required to use this sensor. The system has been designed for continuous operation with long life time. The probe design allows installation into process pipes, tanks or open channels. Up to a process pressure of 5bar and non critical product, process insertion and removal of the probe can be easily done via a 1"ball valve. So calibration and maintenance ensues without process interruption. Other process connections like flanges, swivel clamps, etc. are available on request.

Applications:

- Product concentration
- Sedimentation
- Flotation
- Turbidity measurement

Operational areas:

- Chemical industry
- Petrochemical industry
- Beverages
- Breweries & Dairies

Technical Data:

Line size:	minimum diameter DN 50	Measurement range:	Typical 0–100ppm, 0-5%TS
Process pressure:	maximum PN 16 / ANSI class 150	Reproducibility:	± 1 %
Process temperature:	maximum 140°C	Detector:	Silica diode
Probe material:	1.4471 / 316SS	Measurement wavelength:	typical 830nm
Sight glass material:	Sapphire	Protection:	IP65 / NEMA 4X
Gasket material:	Application specific	optional hazardous area:	ATEX Zone I / Zone II