

## Model 22S-BIO (CSN)



- **Low maintenance**
- **Fiber optic technology**
- **Extended calibration interval: Typical 12 month**
- **Sight glass material: Sapphire**
- **Multiple optical path lengths available (maximum 40mm)**
- **Process insertion via 25mm Ingold adapter**
- **Autoclavable and CIP capable**
- **Compatible to converter models: Messenger and CCAb**

### Description:

The turbidity probe model 22S-Bio 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 can be installed to pipes or to a fermentation tank. A 25mm Ingold- adapter used for insertion and removal of the probe guarantees comfortable operation for calibration and maintenance. Various optical path lengths of the probes will allow ranges up to 120 OD (optical densities).

### Applications:

- Cell density
- Cell growth
- Yeast counting
- Turbidity measurement

### Operational areas:

- Biotechnology
- Breweries
- Beverages
- Dairies

### Technical Data:

Line size:	minimum diameter DN 50	Measurement range:	typical 0-120OD
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