

## Type STS 07

modular @ analyse

Turbidity sensor

### Basic Features

- ▶ Hygienic detection of turbidity for the food and beverage industry
- ▶ For low turbidity, from just 2 EBC / 8 FAU
- ▶ Colour-independent concentration measurement
- ▶ Compact design with integrated electronics and display with backlighting for easy parameterisation
- ▶ IO-Link
- ▶ LED Light Source, LED Service life > 100.000 Hours
- ▶ Resistant sapphire windows CIP/SIP-suitable
- ▶ Hygienic design, polymer-free sealing system
- ▶ Process monitoring and documentation



### Technical features

- ▶ 180° Transmitted light turbidity measurement
- ▶ Measuring range 0-100%
- ▶ Light-Source LED
- ▶ Wave-Length 880 nm
- ▶ Optical Path-Length 5,10 und 20mm
- ▶ Material High Grade Steel 1.4435 (316L)
- ▶ Electropolished surface finish <0,37 µm Ra
- ▶ Sapphire window
- ▶ Power Supply 18...30 VDC
- ▶ Output Signal 4...20mA; IO-Link
- ▶ Schaltausgang PNP 24 V, NC/NO
- ▶ Input contact zero position
- ▶ Cable Connection M12 plug, 5 - pole
- ▶ Process Connection G1/2" elastomer-free sealing system
- ▶ Ambient temperature -20...70°C
- ▶ Process temperature 0...90 °C, 140 °C Maximum for 2 hours. (SIP - Cyle)
- ▶ Process-pressure max. 16 bar (230 psig) at 60 °C
- ▶ Response time <200 mS

### Optische Pfadlängen (OPL)



### Preferred areas of application are:

STS 07 is a turbidimeter for inline measurement of the optical density of liquids in order to monitor continuous process results or to reliably determine changes.

Particularly suitable for:

- Separator control
- Phase separation with quick product change
- Filter monitoring
- Concentration measurements
- Yeast dosage
- Yeast management
- Milk reception
- Monitoring lorry tank cleaning station
- Monitoring the contamination of cleaning media, e.g. in the CIP return line
- Flushing milk applications: Wastewater management, Product return
- Reduction of wastewater costs
- Quality monitoring
- and much more.

Stand 08/2024



# Turbidimeter

## Order Code

<b>STS07-</b> "HygienicConnect" (metallic sealing) Standard		-		-		-	
<b>STS07-R</b> Probe 225mm PG13.5 for retractable fitting		-		-		-	
<b>Optical path length</b>							
Optical path length 5 mm (OPL)	<b>005</b>						
Optical path length 10 mm (OPL)	<b>010</b>						
Optical path length 20 mm (OPL)	<b>020</b>						
<b>Measuring range configuration</b>							
Measuring range 0...100,0 %			<b>1</b>				
Special version on request			<b>K</b>				
<b>Interface / parameterisation</b>							
4...20 mA / M12 5-pole					<b>A</b>		
Special version on request					<b>K</b>		
<b>Display / control unit</b>							
with integrated display							<b>1</b>
Without display							<b>0</b>
Special version on request							<b>X</b>

## Accessories for OPL 5mm : Reference filter set for recalibration with traceability certificate

### Examples of modular process connections



Varivent

Triclamp

Milk-Pipe

See process connection technology data sheet

**modular @ process**