Type STS 04

Turbidity Measuring Unit

Basic features

- Automatic Cleaning possible by use of Process Fitting SAW-830
- Phase-Separation
- Qick product-change
- Reduced costs for waste water
- Filter-monitoring
- Colour-independent concentration measurement
- Extended measuring range
- Calibration ex factory 0...3AU
- ▶ Recalibration-capable with absorption-filter
- Measurements in absorption- /AU or Turbidity units(EBC, FAU, TEF, mg/l) or customised units (free adjustable)
- Additional customised calibration with up to 6 points
- Compact Design with integrated electronic and display for parameterisation
- Robust saphir-windows, CIP/SIP-suitable
- Hygienc Design, polymerfree-sealing system
- ► LED-light, LED durability > 100000 hours
- Integrated digital- and analog-output
- ► Simple parameterization
- Process-monitoring and documentation

Technical features

- Measuring range 0...3AU,0...3250EBC
- ▶ Wave length 880 nm
- Light source LED
- Optical pathlength 5
- Made of high grade steel 1.4435 (316L)
- ► Finish quality electropolished <0,37 µm Ra
- Window: Saphir
- ► Supply voltage 12...30VDC
- Output current 4...20mA
- Output PNP Normally Closed / Normally open, parametrisable / 150 mA max.
- Cabel-Connection M12-plug, 5-pole
- Process-connection 1/2" elastomerfree sealing system
- ► Ambient-temperature -20...70°C
- Process-temperature 0...90 °C, 140 °C max. for 2 hours (SIP-cycle)
- Process-pressure 10 bar (150 psig) max. at 60 °C



ATTENTION!

At lower deviation of dew points water condensation is possible, that can destroy the sensor. At stress with change of temperatures, e. G. a cold water jet on the hot sensor, it can come to absorption of fluids in to the sensor. (Requirements cf. DIN EN 60068-2-14) At applications with dew point, temperature shock or thermal shock stresses we recommend to put in the enclosed silikagel-bag into the connecting head.

Optical systems should be switched off at higher temperatures e.g. 90°C because ot the lifetime of the transmission diode. See Manual.

The tightness classification after IP68 does not mean that these parts are suitable! for applications with lower deviation ot dew point or temperature shock. (DIN 60068-2-14)

2019-01



Type STS 04

Technical Facts

Supply Voltage: Currend demand:

Power Input: Analog-Output: Current limit: 12...30 VDC ca. 80 mA (30V, Analog-Output= 22,5 mA) 2,4 W max. 4-20 mA 3,5 mA min. 22,5 mA max., ajustable 10-20Nm Load: <=(Ub-4V)/20mA (max. 400Ohm at 12V, 1000 Ohm at 24V, 1300 Ohm at 30V) Switch-Output: semiconductor-switching, PNP-switching Switched Power: 150mA max., thermally protected against overload Protection class: IP 69K

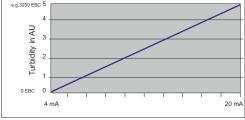
Torque:

Measuring Ranges

Based on Formazin there are the following dependencies: 1FNU = 1FAU = 1 NTU= 0,25 EBC = 2,05 mg/l

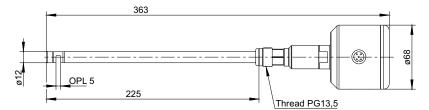
Our Measuring Range is: OPL 5mm 0...3 AU, 0...6 OD, 0...13000 FAU, 0...13000 TEF, 0...3250 EBC , 26,65g/l

Typical Turbidity



modular (*a*) analyse

Dimensional Drawing



The parameterisation is done with the integrated display.

Parameterisation + Documentation

For a parameterisation with PC both units are required. The **optional** PC-USB-Interface SMW-PA-M12, and Programming adapter ST-M12-M8 benötigt.

Accessories

Reference-filter set for recalibration with traceability verification



SMW-PA-M12

PC-USB-Interface incl. the Software for readout and parameterize

ST-M12-M8

Programming adapter M12 to M8

Order Code			T			-	1
STS	04		-		-		
Optical Pathlength							
Optical Pathlength 5 mm	005						
Configuration Measuring-Range							
Measuring range 03AU		1					
Special Constructions on request		Κ					
420 mA				Α			
Special Constructions on request				Κ			
with integrated control + indicator display, inspection cover						1	
without integrated control + indicator display, closed cover						0	
Special Constructions on request						Х	



