



DATASHEET

DIGISENS RANGE

StacSense probe

UV Optical Technology for optimal measurements

- UV 254 spectral absorption without any reagents or consumables.
- Multi-parameter measurement: SAC₂₅₄, CODeq, TOCeq & BODeq, Turbidity eq
- Modbus RS-485 digital communication.
- Automatic Turbidity compensation.



Scope:

- Urban wastewater treatment: detecting organic load variations during input / treatment process / output.
- Treatment of industrial effluents
- Surface water monitoring
- Fish farming, aquaculture (freshwater)
- Drinking water: monitoring Organic matter in raw water, oxidation process, coagulation, activated carbon filtration.





The Spectral Absorption Coefficient (SAC) at 254 nm helps determine the Organic Content of a water sample but also the COD, TOC and BOD parameters by applying the appropriate correlation coefficients.

Measurement principle:

The StacSense probe uses UV absorption at 254 nm to measure organic compounds dissolved in water. This absorbance is correlated with the concentration of TOC, COD and BOD to provide a high-performance probe requiring no consumables.

A reference measurement at 530 nm is used to compensate for the presence of particles in the sample that also absorb UV light and to establish the Turbidity parameter.

The use of a state-of-the-art high-performance UV LED, combined with rigorous ignition management, offers an optimal variance of the signal.

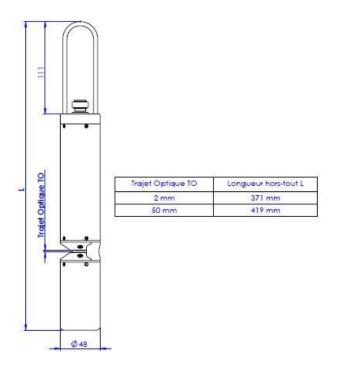
Digital Communication / Built-in Transmitter:

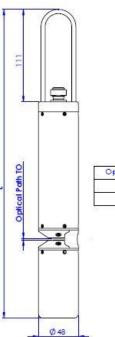
The StacSense sensor connects to any type of recorder, transmitter, remote management system or PLC using a **Modbus RS-485** input. As a result of sensor indexing, more than 200 sensors can be connected to a recorder.

Interference-proofing: pre-amplification built into the sensor and digital signal processing.

All calibration, history, user and measurement data are processed directly in the StacSense Probe and transmitted by a **Modbus** RS-485 or SDI-12 link.

Mechanical perspective:





Optical Path TO	Overall length L	
2 mm	371 mm	
50 mam	419 mm	





Technical Characteristics:

Measurement principle				
Turbidity at 530 nm Internal temperature	Measurements			
Internal temperature	Measurement principle			
Maximum pressure Silicon Photodiode LED LW 254 4+/- 5 mm and 530 +/- 5 mm	Compensation	•		
Type of detector Silicon Photodiode	•			
LED LIV 254 4+ 5 nm and 530 +/- 5 nm				
Detail a paths 2 and 50 mm				
Ingress Protection rating IP68				
Ingress Protection rating Max. immersion depth Maximum pressure Operating temperature O-40°C Storage temperature -10°C to +50°C H range PH 2 to pH12 Dimensions (D x L) (mm) Weight Equipment Body: Stainless steel 316 (1.4401) Optical windows: Quartz (Corning 7980) Cable: Bare wire with polyurethane sheath Seals: Fluoroelastomer (FPM/FKM) Sensor mute in Modbus for 2s at the most between the measurement request and the option to read the status or measurements Framework of measurement results in SD112 after a maximum of 2s instead of the 850 ms standard maximum Typical consumption at 5.4 V Typical consumption at 12 V Typical consumption at 12 V Typical consumption at 24 V Average current during the measurement: 50 mA (1500 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 50 mA (1500 mW) Average current during the measurement: 65 mA (1560 mW) Average current during the measurement: 50 mA (1500 mW) Average current during the measurement: 50 mA (1500 mW) Average current during the measurement: 50 mA (1500 mW) Average current during the measurement: 50 mA (1500 mW) Average current during the measurement: 50 mA (500 mW)				
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Source	Ingress Protection rating	IP68		
O-40°C Storage temperature	Max. immersion depth	50 meters		
10°C to +50°C	Maximum pressure	5 bars		
PH2 to.pH12	Operating temperature			
Dimensions (D x L) (mm)	Storage temperature	-10°C to +50°C		
Typical consumption at 12 V				
Included Body: Stainless steel 316 (1.4401)	Dimensions (D x L) (mm)			
Body: Stainless steel 316 (1.4401) Optical windows: Quartz (Corning 7980) Cable	Weight	1600 - 1800g depending on the optical path (cable not		
Optical windows: Quartz (Corning 7980) Cable: Bare wire with polyurethane sheath Seals: Fluoroelastomer (FPM/FKM)				
Cable: Bare wire with polyurethane sheath Seals: Fluoroelastomer (FPM/FKM) 9 shielded conductors in 3, 7 and 15m. Other lengths on request Modbus¹ RTU (RS-485) / SDI12² (TTL) ¹ Sensor mute in Modbus for 2s at the most between the measurement request and the option to read the status or measurements of Framework of measurement results in SDI12 after a maximum of 2s instead of the 850 ms standard maximum 1² The sensor responds in Modbus / SDI12 including when on Standby 5.4 V ¹² at 26 V ³ DC ¹ Absolute minimum 5.2 V with 1 m of cable ² Minimum voltage subject to cable length-related losses ² 28.0 V absolute maximum Automatic standby less than 10 μA (54 μW) Maximum peak current: 600 mA (2 ms) Maximum current during the measurement: 70 mA (378 mW) Average current during the measurement: 70 mA (189 mW) Average current (1 measurement / 2s): 35 mA (189 mW) Average current during the measurement: 70 mA (840 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 70 mA (840 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 60 mA (720 mW) Average current during the measurement: 65 mA (1560 mW)	Equipment			
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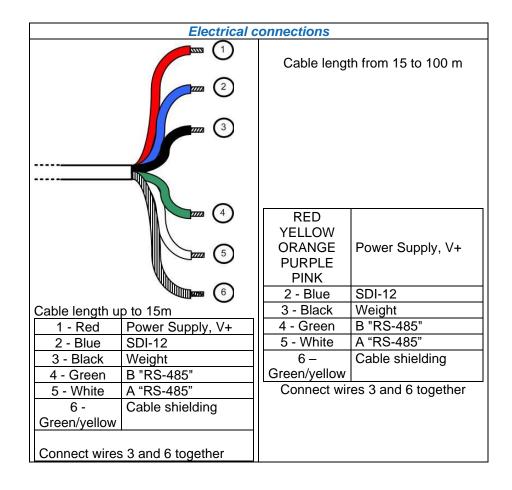
EMC compliance:	NF EN 61326-1: 2013-05 RS-485 Modbus RTU & SDI12		
	¹ The sensor is qualified for standard use with a dedicated cable including power supply and communication lines specific to the sensor network.		
	When connected to a DC power supply network separated from the RS485 communication lines; additional shielding must be used on the system to protect the sensors from shock waves from an impact.		
Warranty	2 years		

Measurement Ranges - Otpical Path

Ор.Т	Parameters	Measureme nt range *	Units	Detection limit	Quantification limit	Accuracy **	Application
2 mm	SEC ₂₅₄	0-750	Abs/m	1.7	5	1 or +/-3%	Wastewater
	CODeq	0-1300	mg/L	3	9	2 or +/-3%	
	BODeq	0-350	mg/L	1	3	1 or +/-3%	
	TOCeq	0-500	mg/L	1.5	4	1 or +/-3%	
	Turbidity eq	0-500	FAU	1.5	5	5 or +/-5%	
50 mm	SEC ₂₅₄	0-30	Abs/m	12:10 AM	0.3	0.1 or +/-3%	Drinking Water
	CODeq	0-50	mg/L	12:15 AM	0.6	0.2 or +/-3%	
	BODeq	0-15	mg/L	12:05 AM	0.2	0.1 or +/-3%	
	TOCeq	0-20	mg/L	12:10 AM	0.2	0.1 or +/-3%	
	Turbidity eq	0-40	FAU	0.4	1.2	1.0 or +/-7%	

Performance levels obtained under laboratory conditions (controlled temperature and stirring, aqueous solutions of KHP)

^{**} Highest value



^{*} Optical path 2 and 50mm, Linearity: > 0.99 on the given range.