

Dissolved Oxygen Sensor



The oxygen probe utilizes optical measuring technology, and conforms to the ASTM International D888-05 norm for the measurement of oxygen. This technology does not consume oxygen, allowing a highly accurate measurement under all circumstances.

The intelligent sensor saves data such as calibration directly in the sensor. This enables „play-and-play“ usage without requiring recalibration.

Transfer of data is accomplished by means of a Modbus protocol.

ADVANTAGES AT A GLANCE

- Calibration data stored directly in sensor
- For highly diverse applications
- Data transfer via Modbus RS-485
- Robust housing made of stainless steel or titanium
- For mobile or stationary applications

TECHNICAL DATA

GENERAL		DISSOLVED OXYGEN MEASUREMENT	
Dimensions	Diameter: 25 mm Length: 146 mm	Measuring Principle	Optical
Weight	Stainless steel: 450 g (sensor + 3m Kabel) Titanium: 300 g (sensor + 3m Kabel)	Measuring Range	0 - 20,00 mg/l 0,00 - 20,00 ppm* 0 - 200 %*
Material	Stainless Steel 316L oder Titanium	Resolution	0,01
Storage temp.	-10 bis +60°C	Accuracy	± 0,1 mg/l ± 0,1 ppm ± 1 %
Communication	Modbus RS485 (optional: SDI-12)	Response Time	< 60 s in 90 % of the measurement
Connector	Specialized cable with Fisher connector or open ends	Measuring Interval	> 5 s
Power Requirement	5 bis 9 V	Temp. Compensation	NTC
Energy Consumption	Standby: 25 µA Average (1 measurement/s): 4,4 mA	Movement of Media	Not required
Impulsstrom	100 mA		
Maximaler Druck	5 bar		
Schutzart	IP 68		
		*Optional	

WaterSam GmbH & Co. KG

Hölzlestraße 42

72336 Balingen

QUESTIONS?

www.watersam.de



07433 27 7043 0



07433 27 70 43 22



info@watersam.de

QUALITY MADE IN GERMANY

2