

OXYnor

*HIGH PRECISION OXYGEN SENSOR
WITH TEMPERATURE MEASUREMENT
OPTICAL TECHNOLOGY*

*ALSO AVAILABLE WITH POM HOUSING
FOR MAXIMUM DURABILITY*

SENTEC's OXYnor has become one of the most popular optical oxygen sensors in the market. The small, but rugged design, has an open protocol meaning the customer is not locked to any specific back system. This version is especially suited for land-based tanks, hatchery's or implemented in underwater camera housings and drones.

OXYnor offers Modbus RTU, ASCII or 4-20mA communication. The high precision optical probe is equipped with an exchangeable sensor cap, and the optical measurement principle gives a sensor with long service intervals compared to a traditional galvanic sensor.

FEATURES



Oxygen and temperature measurement



RS485/RS232
MODBUS RTU/
ASCII
or 4-20mA
communication



Low power
consumption



Compact
design

TECHNICAL CHARACTERISTICS

Sensor

Application	Water or air measurement
Digital interface	OXYnor RS485/RS232 Modbus RTU or ASCII (Baud rate: 19200, Data bits: 8, Parity: No, Stop bits: 1, handshake: No)
Analog out	OXYnor 4-20mA; 2 outputs, oxygen and temperature
Maximum pressure	5 Bar
OXYnor is not resistant against	Pure Chlorine gas Organic solvents (CHCl ₃ , toluene, acetone, ...) Steam sterilization (121 °C)
Oxygen consumption	None
Sampling rate	1 s up to 9 min 59 s
Calibration	One- or two-point calibration
Supply voltage	RS-232: 5 V ± 0.5 V (Absolute Max Ratings) RS-485: 5-30 V 4-20mA: 7-30 V
Power consumption in active mode	max. 1 W
Power consumption in stand-by mode	< 0.15 W
Temperature Range: storage	-10 °C to 70 °C
Weight	0.2 kg with 5 m cable
Cable length	5 m standard, also available with customized cable length

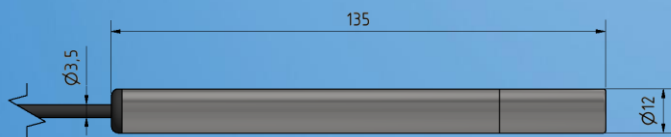
Oxygen

Technology	Optical
Range	0 – 250 % oxygen, special calibration up to 500 % air saturation available on request
Resolution	1 ± 0.02 % O ₂ 20.9 ± 0.1 % O ₂ 50 ± 0.4 % O ₂
Limit of detection	0.03 % O ₂ ; 20 ppb DO
Response time O ₂ measurement in liquid, t ₉₀	< 30 s
Temperature compensation of the oxygen concentration	0 °C to 50 °C

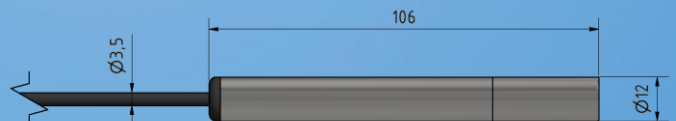
Temperature

Technology	NTC
Range	0 °C to 50 °C
Resolution	Better than ± 1 °C

DIMENSIONS (mm)



Material EN 1.4539 for saltwater



Material EN 1.4404 for freshwater