OXYnor POM

HIGH PRECISION, HEAVY-DUTY OXYGEN SENSOR WITH TEMPERATURE MEASUREMENT

OPTICAL TECHNOLOGY

NOW AVAILIBLE WITH POM HOUSING FOR MAXIMUM DURABILTY

SENTEC offers a new design in addition to the original OXYnor sensor. Integrated in a heavy-duty POM-housing and with 8mm PUR cable, the OXYnor POM is designed to withstand harsh conditions in both sea and fresh water.

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

FEATURES

- Oxygen and temperature measurement
- RS485/RS232 MODBUS RTU/ ASCII or 4-20mA communication
- Low power consumption
- Extremely durable POM-housing

SENTEC

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 (CHCl3, 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	1.4 kg with 10 m cable
Cable length	10 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 % O2 20.9 ± 0.1 % O2 50 ± 0.4 % O2
Limit of detection	0.03 % O2; 20 ppb DO
Response time O2 measurement in liquid, t90	< 30 s for the standard < 60 s for POM sensor
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)