

Specifications

OXYBase® Series

OXYBase® WR (OEC Type PSt3)	
Specifications	
Measurement range*	Optimal: 0 - 50 % O ₂ , 0 - 22.5 mg/L Max.**: 0 - 100 % O ₂ , 0 - 45 mg/L
Properties	
Compatibility	Aqueous solutions, ethanol, methanol, cleaning agents containing ClO ₂ at room temperature
Incompatibility	Steam sterilization (+ 121 °C)
Cross-sensitivity	Organic solvents such as acetone, toluene, chloroform or methylene chloride, chlorine gas
Storage stability of sensor cap	5 years provided the sensor is stored at room temperature in dry conditions and in the dark
Temperature sensor	NTC (for temperature compensation of oxygen values only, not suitable for monitoring purposes)
Temperature performance	Accuracy below ± 1 °C
Power supply	OXYBase® WR-RS232: 5 VDC ± 5 % OXYBase® WR-RS485/WR-RS485M: 5 - 30 VDC OXYBase® WR-RS485-A0: 7 - 30 VDC
Power consumption in active mode / stand-by mode	max. 1 W / 0.15 W
Temperature range operation	Optimal from 0 °C to + 40 °C / maximal** from - 10 °C to + 70 °C
Temperature range storage	Optimal at room temperature (+20 °C ± 5 °C) / maximal from 0 °C to + 70 °C
Dimensions	OXYBase® WR-RS232: 12 mm x 81.4 mm OXYBase® WR-RS485/WR-RS485M: 12 mm x 106 mm OXYBase® WR-RS485-A0: 12 mm x 135 mm
Weight	140 g
Digital interface	RS232 (PreSens proprietary) RS485 (PreSens proprietary or Modbus RTU) RS485 4 - 20 mA output

*at + 20 °C, 960 - 980 hPa; humidified gas mixture

**after customized calibration

Sensors

O₂

OXYPro® MR(M)

Mid-range oxygen probe for direct connection to a control unit, measurement range 0 - 20.9 % O₂ / 0 - 9 mg/L



OXYPro® WR(M)

Wide range oxygen probe for direct connection to a control unit, measurement range 0 - 100 % O₂ / 0 - 45 mg/L



OXYPro® TR(M)

Trace range oxygen probe for direct connection to a control unit, measurement range 0 - 10 % O₂ / 0 - 4.2 mg/L



OXYPro® UTR(M)

Ultra-trace oxygen probe for direct connection to a control unit, measurement range 0 - 200 ppmv gaseous oxygen



O₂ Probe for In-line Measurements OIM-PSSt3/PSSt6/PSSt9

Robust probe for production processes with excellent long-term stability (0 - 100 % O₂ / 0 - 45 mg/L, or 0 - 5 % O₂ / 0 - 2 mg/L, or 0 - 200 ppmv O₂)



Oxygen Exchange Cap OEC-PSSt3/PSSt6/PSSt7/PSSt8/PSSt9

Replacement cap for OIM or OXYPro®, available with different coatings, e. g. safe for food applications



Oxygen Exchange Cap OEC30-PSSt3/PSSt6/PSSt7/PSSt8/PSSt9

Replacement cap for OIM or OXYPro®, reducing air bubble formation, available with different coatings, e. g. hydrophobic Teflon coating



OXYBase® Series

Robust electro-optical module combined with a sensor in a stainless steel housing



O₂ Dipping Probe DP-PSSt7/PSSt8

Robust oxygen probe for measurements with the all-round devices Microx 4 & Microx 4 trace (0 - 100 % O₂ / 0 - 45 mg/L, or 0 - 10 % O₂ / 0 - 4.5 mg/L)



O₂ Dipping Probe DP-PSSt3/PSSt6/PSSt9

Oxygen probe with steel fitting for normal range, trace, or ultra-low oxygen measurements (0 - 100 % O₂ / 0 - 45 mg/L, or 0 - 5 % O₂ / 0 - 2 mg/L, or 0 - 200 ppm)