

	Normal Oxygen Range		Trace Oxygen Range	
Specifications	Gaseous & Dissolved Oxygen	Dissolved Oxygen	Gaseous & Dissolved Oxygen	Dissolved Oxygen
Measurement range	0 – 100 % O ₂	0 – 45 mg/L	0 – 10 % O ₂	0 – 4.5 mg/L
	0 – 1000 hPa	0 – 1400 µmol/L	0 – 100 hPa	0 – 140 µmol/L
Limit of detection	0.03 % oxygen	15 ppb	0.007 % oxygen	3 ppb
Resolution	± 0.01 % O ₂ at 1 % O ₂	± 0.005 mg/L at 0.4 mg/L	± 0.002 % O ₂ at 0.008 % O ₂	± 0.7 ppb at 3 ppb
	± 0.05 % O ₂ at 20.9 % O ₂	± 0.025 mg/L at 9.0 mg/L	± 0.006 % O ₂ at 2.5 % O ₂	± 2.5 ppb at 1000 ppb
Accuracy	± 0.05 % O ₂ or < 3 % rel.		± 3 ppb or < 3 % rel.	
Measurement temperature range	0 – 50 °C		0 – 50 °C	
Response time (t ₉₀)	< 3 sec. (gas)	< 10 sec. (liquid)	< 3 sec. (gas)	< 10 sec. (liquid)
Properties				
Compatibility	Aqueous solutions, ethanol, methanol			
No cross-sensitivity with	pH 1 – 14 CO ₂ , H ₂ S, SO ₂ Ionic species			
Cross-sensitivity to	Organic solvents, such as acetone, toluene, chloroform or methylene chloride Chlorine gas			
Sterilization procedures	Steam sterilization Ethylene oxide (EtO)			
Cleaning procedures	3 % H ₂ O ₂ , ethanol, soap solution			
Calibration	Two-point calibration in oxygen-free environment (nitrogen, sodium sulphite) and air-saturated environment		Two-point calibration in oxygen-free environment (nitrogen) and a second calibration value optimally between 1 and 2 % oxygen	
Storage stability	5 years provided the sensor material is stored in the dark at room temperature (20 °C +/- 5 °C)			