

	Sensor Type PSt3		Sensor Type PSt6	
Specifications	Gaseous & Dissolved Oxygen	Dissolved Oxygen	Gaseous & Dissolved Oxygen	Dissolved Oxygen
Measurement range	0 – 100% O ₂ 0 – 1000 hPa	0 – 45 mg/L 0 – 1400 µM	0 – 4.2% O ₂ 0 – 41.4 hPa	0 – 1.8 mg/L 0 – 56.9 µM
Limit of detection	0.03% oxygen	15 ppb	0.002% oxygen	1 ppb
Resolution	± 0.01% O ₂ at 0.21% O ₂ ± 0.1% O ₂ at 20.9% O ₂ ± 0.1 hPa at 2 hPa ± 1 hPa at 207 hPa	± 1.4 µM at 283.1 µM ± 0.14 µM at 2.83 µM	± 0.0007% O ₂ at 0.002% O ₂ ± 0.0015% O ₂ at 0.2% O ₂ ± 0.007 hPa at 0.023 hPa ± 0.015 hPa at 2.0 hPa	± 0.010 µM at 0.03 µM ± 0.020 µM at 2.8 µM
Accuracy	± 0.4% O ₂ at 20.9% O ₂ ; ± 0.05% O ₂ at 0.2% O ₂ ;		± 1 ppb or ± 3% of the respective concentration; whichever is higher	
Drift at 0% oxygen	< 0.03% O ₂ within 30 days (sampling interval of 1 min)		< 2 ppb within 30 days (sampling interval of 1 min)	
Measurement temperature range	0 – 50°C		0 – 50°C	
Response time (t ₉₀)	< 6 s	< 40 s	< 6 s	< 40 s
Properties				
Compatibility	Aqueous solutions, ethanol, methanol			
No cross-sensitivity to	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) Gamma irradiation			
Cleaning procedures	Cleaning in place (CIP, 5% NaOH, 90°C, 194°F) 3% H ₂ O ₂ Acidic agents (HCl, H ₂ SO ₄), max. 4 – 5%			
Calibration	Two-point calibration with oxygen-free environment (nitrogen, sodium sulfite) 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	2 years provided the sensor material is stored in the dark (-10 – 60°C)			