

	Sensor Type PSt3		Sensor Type PSt6	
Specifications	Gaseous & Dissolved Oxygen	Dissolved Oxygen	Gaseous & Dissolved Oxygen	Dissolved Oxygen
Measurement range	0 – 100 % O <sub>2</sub>	0 – 45 mg/L	0 – 4.2 % O <sub>2</sub>	0 – 1.8 mg/L
	0 – 1000 hPa	0 – 1400 µmol	0 – 41.4 hPa	0 – 56.9 µmol
Limit of detection	0.03 % oxygen	15 ppb	0.002 % oxygen	1 ppb
Resolution	± 0.01 % O <sub>2</sub> at 0.21 % O <sub>2</sub>	± 0.14 µmol at 2.83 µmol	± 0.0007 % O <sub>2</sub> at 0.002 % O <sub>2</sub>	± 0.010 µmol at 0.03 µmol
	± 0.1 % O <sub>2</sub> at 20.9 % O <sub>2</sub>	± 1.4 µmol at 283.1 µmol	± 0.0015 % O <sub>2</sub> at 0.2 % O <sub>2</sub>	± 0.020 µmol at 2.8 µmol
	± 0.1 hPa at 2 hPa		± 0.007 hPa at 0.023 hPa	
	± 1 hPa at 207 hPa		± 0.015 hPa at 2.0 hPa	
Accuracy	± 0.4 % O <sub>2</sub> at 20.9 % O <sub>2</sub> ; ± 0.05 % O <sub>2</sub> at 0.2 % O <sub>2</sub> ;		± 1 ppb or ± 3 % of the respective concentration; whichever is higher	
Drift at 0 % oxygen	< 0.03 % O <sub>2</sub> 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 <sub>90</sub> )	< 6 sec.	< 40 sec.	< 6 sec.	< 40 sec.
<b>Properties</b>				
Compatibility	Aqueous solutions, ethanol, methanol			
No cross-sensitivity with	pH 1 – 14 CO <sub>2</sub> , H <sub>2</sub> S, SO <sub>2</sub> 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 <sub>2</sub> O <sub>2</sub> Acidic agents (HCl, H <sub>2</sub> SO <sub>4</sub> ), max. 4 – 5 %			
Calibration	Two-point calibration in 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)			