	Sensor Type PSt3		Sensor Type PSt6		Sensor Type PSt9
Specifications	Gaseous & Dissolved Oxygen	Dissolved Oxygen	Gaseous & Dissolved Oxygen	Dissolved Oxygen	Gaseous Oxygen
Measurement range	$0-100\ \%\ 0_2$	0 – 45 mg/L	$0 - 4.2 \% 0_2$	0 – 1.8 mg/L	0 - 200 ppm
	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	0.5 ppm
Resolution	$\pm0.01\%0_2$ at 0.21 $\%0_2$	± 0.14 µmol at 2.83 µmol	$\pm0.0007$ % $\rm O_2$ at 0.002 % $\rm O_2$	± 0.010 µmol at 0.03 µmol	10 ± 0.5 ppm
	$\pm0.1$ % $0_2$ at 20.9 % $0_2$	± 1.4 µmol at 283.1 µmol	$\pm0.0015\%0_2$ at 0.2 $\%0_2$	± 0.020 μmol at 2.8 μmol	100 ± 0.8 ppm
	± 0.1 hPa at 2 hPa		± 0.007 hPa at 0.023 hPa		200 ± 1.5 ppm
	± 1 hPa at 207 hPa		± 0.015 hPa at 2.0 hPa		
Accuracy	$\pm$ 0.4 % 0_2 at 20.9 % 0_2;		± 1 ppb or ± 3 % of the respec	tive concentration;	± 2 ppm or ± 5 %;
	$\pm0.05\%0_2$ at 0.2 $\%0_2;$		whichever is higher		whichever is higher
Drift at 0 % oxygen	< 0.03 % 0 <sub>2</sub> within 30 day	ys	< 2 ppb within 30 days		< 2 ppm within 30 days
	(sampling interval of 1 min.)		(sampling interval of 1 min.)		(sampling interval of 1 min.)
Measurement temperature range	• 0 − 50 °C		0 – 50 °C		0-40 °C
Response time (t <sub>90</sub> )	< 6 sec.	< 40 sec.	< 6 sec.	< 40 sec.	< 3 sec.
Properties					
Compatibility	Aqueous solutions, ethanol, methanol				Gas phase only
No cross-sensitivity with	рН 1 — 14				CO <sub>2</sub> , SO <sub>2</sub>
	CO <sub>2</sub> , H <sub>2</sub> S, SO <sub>2</sub>				
	lonic species				
Cross-sensitivity to	Organic solvents, such as acetone, toluene, chloroform or methylene chloride				Organic vapor
	Chlorine gas				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, $H_2SO_4$ ), max. 4 – 5 %				
Calibration	Two-point calibration in o	oxygen-free environment	Two-point calibration in oxygen-free environment (nitrogen)and a second calibration value optimally		Two-point calibration in oxygen-
	(nitrogen, sodium sulfite	e) and air-saturated			free environment (nitrogen 6.0)
	environment between 1 and 2 % oxygen			and a second calibration value	
					optimally between 100 and 200
					ppm gaseous oxygen
Storage Stability	2 years provided the sensor material is stored in the dark (- 10 $-$ 60 °C)				