

Specifications*

Measuring range	1 – 25 % CO ₂ at atmospheric pressure (1013.15 hPa) 10 – 250 hPa pCO ₂ 8 – 180 mmHg pCO ₂	
Response time (t90) at 20°C	< 3 min for change from 2 % to 5 % CO ₂	< 3 min for change from 15 mmHg to 38 mmHg CO ₂
Resolution at 20°C	± 0.06 % at 2 % CO ₂ ± 0.5 mmHg at 15 mmHg CO ₂	± 0.15 % at 6 % CO ₂ ± 1.2 mmHg at 45 mmHg CO ₂
Drift at 37°C **	> 0.01 % CO ₂ per 7days	> 0.1 mmHg CO ₂ per 7days
Accuracy (Batch-Calibration)	± 5 % of reading or 0.2 % whichever is greater	± 5 % of reading or 1.5 mmHg whichever is greater
Operating temperature	from +15 °C to +45 °C	

Properties*

Compatibility	aqueous solutions, pH 4 – 9
Cross-sensitivity	Optical pCO ₂ sensors display reduced cross-sensitivity to ionic strength (salinity); acetic acid, SO ₂ , HCl vapours
Stability	pCO ₂ sensors do not stand organic solvents, pH above 10 or below 4
Storage	6 months provided the pCO ₂ sensor is stored in its original package
Sterilization	beta-irradiated or autoclavable pCO ₂ sensors available
Cleaning	pCO ₂ Sensors are designed as disposables, cleaning is not recommended
Calibration	pCO ₂ spots are pre-calibrated; re-calibration is possible

* provided pCO₂ spots are used without further handling in physiological solutions

** in a carbon dioxide incubator with 100 % rel.Hum. at 5 % CO₂; measurement interval of 1 min