

ISE: Carbon Dioxide

A Carbon Dioxide Ion Selective Electrode sensor specifically designed to measure 4.4 ppm to 440 ppm (10^{-4} M to 10^{-2} M) concentrations of CO₂.

Applications include, but not limited to: Soft Drinks, Wine, Fermentation.



Model #	CO21501
Slope	55 +/- 3 mV/decade
Reproducibility	+ / - 2%
Interferences	Volatile weak acids
Complexation	Heavy metals
Temperature Range	0 to 50° C (if calibrated at that temperature)
Pressure Range	0 to 10 psi
Response Time	95% response in 30 seconds
Storage	Long term, store dry Short term, store in carbon dioxide standard with ISA added
Concentration Range	10 ⁻⁴ to 10 ⁻² M 4.4 ppm to 440 ppm
pH Range	4.8 to 5.2 pH
Resistance	1000 to 1500 megohms
Care, Maintenance & Cleaning	Treat with dilute carbon dioxide standard with pH adjusted to 4.8 - 5.2 Replace membrane as needed
Temperature Compensation	No
Isopotential Point	Unknown
On-Line Capability	Yes, pH control required
Applications	Soft Drinks, Wine Fermentation