

Specifications

State	Dissolved Oxygen	Gaseous Oxygen
S/W Display	(% , mmHg, ppm)	(%, mmHg, ppm)
Minimum Detectable Limits	0.44 mmHg (0.023 ppm)	0.44 mmHg (0.06%)
Dynamic Range	0 to saturation level*	0 to 100%
Resolution	0.11 to 0.37 mmHg for dissolved oxygen partial pressure 0 to 160 mmHg gas	0.015 to 0.045 % (0.11 to 0.37 mmHg) for oxygen partial pressure 0 to 160 mmHg
Interference	No interference from pH change or salinity	No interference from CH ₄ , acetone, moisture or CO ₂
Resolution:		
High O₂ Concentration	0.05 ppm	0.1%
Low O₂ Concentration	0.005 ppm	0.01%
Stability Drift	< 0.02 ppm per day	< 0.05% per day
Response Time	< 1 sec (< 10 seconds with silicone overcoat)	< 1 sec (< 10 sec with silicone overcoat)
Compensation	For temperature only	For temperature only
Calibration	2 point calibration. first point in oxygen free gas or liquid, 2nd point in air or air saturated water, or liquid, 2nd point in air or air saturated water, or any other standard	
Effect of Error in	1% error in reading of 0 concentration standard = 1.6 mmHg error in low DO concentration, 0 mmHg error in high end	
Calibration on Answers	1% error in reading of high concentration standard = 4 mmHg error in high concentration, 0 mmHg error in low end	
Replaceable Probe	Yes	Yes
Probe Reconditioning	Yes	Yes
Re-Calibration	Only when probe is replaced	Only when probe is replaced
Probe Temperature Range	-80° to 110°C	-80° to 110°C
Storage Conditions	No specific requirements	No specific requirements
Probe Lifetime	~1 year	~1 year

Catalog No.

Product

CGS 8040.75	FO ₂ ton Fiber Optic Oxygen Sensing System, 115 V, 60 Hz
CGS 8041.75	FQ ₂ ton Fiber Optic Oxygen Sensing System, 230 V, 50 Hz
CGS 8042.75	Fiber Optic Oxygen Probe Stainless Steel Probe, 1000 μm core dia.
CGS 8043.75	Fiber Optic Oxygen Probe Polyimide Probe, 600 μm core dia.
CGS 8044.75	Fiber Optic Oxygen Probe, Aluminum Probe, 500 μm outer dia.
CGS 8045.75	Fiber Optic Oxygen Probe, Rugged 1 μm diameter Silica-Core Fiber in 0.25 in OD Stainless Steel Ferrule, with Screw-On Light Shield
CGS 8046.75	Bifurcated Optical Fiber Assembly, 200 μm
CGS 8047.75	Bifurcated Optical Fiber Assembly, 400 μm
CGS 8048.75	Bifurcated Optical Fiber Assembly, 600 μm
CGS 8049.75	Splice Bushing