

# DE-OX BIO CARBON DIOXIDE ANALYZER



**SYNERGY**  
INNOVATIVE DIVING EQUIPMENT TRADING LLC

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Carbon dioxide (CO<sub>2</sub>) is a colorless and odorless gas, that is often found in engine exhaust. The DE-OX BIO is an analyzer based on an innovative non-dispersive infrared (NDIR) temperature compensated carbon dioxide sensor.

The sensor has the same shape, dimension and thread of the most common oxygen sensors. Before diving, DE-OX BIO is able to analyze the carbon dioxide content in every breathing gas mix, including air.

It can be connected to a gas or diesel high or low pressure compressors for in-line continuous monitoring of gas quality.

## SPECIFICATIONS:

Flow Rate	0.6-1 L/min
Resolution	50 ppm resolution from 0 to 1000 ppm, then 100 ppm up to full scale
Repeatability	± 2% of full scale @ 68°F (20°C) ambient
Linearity	At ambient temperature and pressure: ± 2% FSD or ± 10% of the reading, whichever is greater
Sensor Type	NDIR (Non-dispersive infrared)
Expected Sensor Life	5-10 years based on analyzer handling and use. Check sensor accuracy frequently with test gas and attempt to recalibrate if reading is inaccurate. Replace sensor if recalibration fails.
Range	0-2000 ppm
Alarms	Two user-programmable audible and visual alarms
Response Time	< 30 seconds @ 68°F (20°C) ambient
Operating Temperature	-4° to +122°F (-20° to +50°C)
Operating Humidity	0 to 95% rh, non-condensing
Power	9 volt alkaline or lithium battery
Battery Life	Estimated 20 hours on a single lithium battery recharge
Weight	8.8 oz (250 g)
Warranty	12 months

\*All specifications are at ambient / sea level, 77°F (25°C) and are subject to change without notice.

\*\*Calibration must be confirmed with calibration CO test gas.

## FEATURES:

- Fast response
- Small portable shell
- Large LCD display
- On-Off switch
- Rugged high-impact plastic
- Requires very little maintenance
- Low power consumption
- Non-dispersive infrared technology sensor
- 50 ppm CO<sub>2</sub> resolution on display technology
- Low battery warning indicator
- Easy to operate, reliable and accurate
- Capable of shutting down compressor at set alarm with optional relays



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