DE-OX ZIP PRO

Oxygen Analyzer

DE-OX® ZIP PRO represents the simplest and most up-to-date measurement instrument for the analysis of oxygen in a mixed gas. Unique features include two audible & visual alarms (minimum and maximum), standard analog 4-20 mA and Open Collector outputs.

DE-OX® ZIP PRO has been specially designed and manufactured for the analysis of binary and ternary gas mixtures like Nitrox, Heliox and Trimix.

DE-OX® ZIP PRO is an integrated device with oxygen sensor, electronic board and battery combined in a small compact package. The Oxygen sensor automatically calibrates to any breathing air gas being tested.

DE-OX® ZIP PRO can be used in-line for continuous monitoring of mixed gas fills. Relay outputs can sound alarms, activate lights and

shut off the compressor if the oxygen value goes out of the low and high set points programmed by the user.

Features

On/Off Switch

- Display Range of 0.0-100%
- Low Battery Warning Indicator
- Two- Hi/Low Custom Audible & Visual Alarms
- 4-20 mA Analog output for external devices
- Capable of shutting down compressor at set alarm

Specifications Zip Pro - 9631	
Maximum Gas Flow Rate	.5-2 liter/min. (about 1 bar)
Display Accuracy	+/- 1%
Sensor Type	Electrochemical
Expected Cell Life- (Room Air & Temp)	24 Months
Range	0-100% O2
Response Time	less than 12 Seconds
Operating Temperature	41° to 86°F (5° to 30°C) Will work outside this range with decreased accuracy.
Storage Temperature	-4° to 122° F (-20° to 50°C)
Operating Humidity	0-100% RH, Non-Condensing
Power	9 Volt battery
Dimensions (W x D)	3 1/2 x 3 in (8.5 x 7.5 cm)
Weight	8.8 ounces (250 g)

DE-OX CO

The Carbon Monoxide Analyzer

DE-OX® CO is able to test a tank fill for carbon monoxide content in any breathable gas mix, including air, or it can be connected to a gas or diesel compressor for in-line continuous monitoring.

Carbon monoxide is a colorless and odorless toxic gas, that could be exhausted from an engine or from poorly maintained compressor filters. If breathed it bonds with blood hemoglobin affecting the oxygen transport to the body tissues. Carbon Monoxide poisoning is extremely dangerous and can only be treated with immediate medical attention and could lead to death.

DE-OX® CO measures your breathing gas for toxic levels of CO. It is really easy to use and allows the user to personally check if the gas mix or air is carbon monoxide free. Essential for dive centers to check the compressors breathing gas CO content and for divers travelling abroad.

DE-OX® CO is based on a state-of-the-art carbon monoxide electrochemical sensor that should not need periodical calibration. Relay outputs can sound alarms, activate lights and shut off the compressor if the carbon monoxide level is over the user programmed set levels.

Specifications DE-OX CO - 9634	
Maximum Gas Flow Rate	.5-2 liter/min. (about 1 bar)
Display Accuracy	+/- 5%
Sensor Type	Electrochemical
Expected Cell Life- (Room Air & Temp)	60 Months +
Range	0-100 ppm CO
Response Time	less than 50 Seconds
Operating Temperature	41° to 104°F (5° to 40°C) Will work outside this range with decreased accuracy.
Storage Temperature	14° to 140° F (-10° to 60°C)
Operating Humidity	15-90% RH, Non-Condensing
Power	9 Volt battery
Dimensions (W x D)	3 1/2 x 3 in (8.5 x 7.5 cm)
Weight	8.8 ounces (250 g)

DE-OX BIO Carbon Dioxide Analyzer

Carbon Dioxide (CO2) 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 infra red (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.

h

Advantages

- Large Display
- Fast Response
- Made to Test Breathing Gases
- Easy To Operate, Reliable and Accurate
- Non-Dispersive Infrared Sensor
- Automatic Calibration

Features

- On/Off Switch
- Display Range 50PPM CO.
- Low Battery Warning Indicator
- Two- Hi/Low Custom Audible & Visual Alarms
- 4-20 mA Analog output for external devices
- Capable of shutting down compressor at set alarm

Specifications De-Ox BIO - 9635	
Maximum Gas Flow Rate	.5-2 liter/min. (about 1 bar)
Display Accuracy	+/- 5%
Sensor Type	Non-Dispersive Infrared
Expected Cell Life- (Room Air & Temp)	60 Months +
Range	0-2000 ppm CO ₂
Response Time	less than 50 Seconds
Operating Temperature	41° to 104°F (5° to 40°C) Will work outside this range with decreased accuracy.
Storage Temperature	14° to 140° F (-10° to 60°C)
Operating Humidity	15-90% RH, Non-Condensing
Power	9 Volt battery
Dimensions (W x D)	3 1/2 x 3 in (8.5 x 7.5 cm)
Weight	8.8 ounces (250 g)

www.nuvair.com

All analyzers must be checked for calibration using a certified test gas equal to the mixture being analyzed before each use and monthly.

www.nuvair.com



DE-OX SUN

Helium Analyzer

TEMC announces the delivery of the new revolutionary Helium Analyzer.

DE-OX® SUN represents the simplest and up-to-date measurement instrument for the analysis of helium into mixed gas. Unique features include two audible alarms (minimum and maximum), standard analog 4-20 mA and Open Collector outputs.

DE-OX® SUN has been especially designed and manufactured for the analysis of binary and ternary gas mix like Heliox and Trimix.

DE-OX® SUN comprises in just one integrate device the helium sensor. electronic board and battery. The instrument does not require calibration.

DE-OX® SUN can be used for continuous reading during mixed gas filling. It can alert and help in switching off the compressor if the helium value goes out the set alarms range (for instance 45% helium).

DE-OX® SUN is based on an innovative sensor developed by TEMC® for respiratory use and for monitoring the respiratory parameters in saturation dives.

Advantages

- Large Display
- Fast Response
- Made to Test Breathing Gases
- Easy To Operate. Reliable and Accurate User Changeable Batteries & Sensor
- Automatic Calibration

Specifications DE-OX SUN - 9638		
Maximum Gas Flow Rate	.5-2 liter/min. (about 1 bar)	
Display Accuracy	Helium indication in any O2, Air or Nitrogen mix 0-100% volume	
Sensor Type	Thermal Conductive Technology	
Expected Cell Life- (Room Air & Temp)	60 Months +	
Range	0-100% He	
Response Time	less than 10 Seconds	
Operating Temperature	41° to 104°F (5 to 40°C) Will work outside this range with decreased accuracy.	
Storage Temperature	5° to 122° F (-15° to 50°C)	
Operating Humidity	0-90% RH, Non-Condensing	
Power	9 Volt battery	
Dimensions (W x D)	3 1/2 x 3 in (8.5 x 7.5 cm)	
Weight	8.8 ounces (250 g)	

DE-OX SUB MULTIGAS

O2. CO. CO2. & Moisture

DE-OX® SUB MULTIGAS is the most up-to-date measurement instrument for checking the quality of any breathable gas mix.

DE-OX® SUB MULTIGAS is a fully digital analyzer that measures at the same time Oxygen, Carbon Monoxide, Carbon Dioxide, Moisture and Temperature in air. It can be connected to any air *compressor or cylinder in order to check the air quality. It has visual and sound alarms for any set gas concentration and two relays with exchange contacts connected to the alarms.

DE-OX® SUB MULTIGAS can be used for continuously reading during gas filling. It can alert and help in switching off the compressor if the values go out of the set alarm range. Connection to Personal Computers through serial port is included as well.

Model- 9636

* To connecte analyzer to a compressor additonal parts are required to restrict flow of gas.

Features

- · On/Off Switch
- Display Range of 0-100% O₂
- Low Battery Warning Indicator
- Easy Calibration
- · User replaceable battery and sensor
- Oxygen percentage indication in the mix within 0.0 to 100%. Resolution 0.1%. Long life electrochemical sensor.
- Large range of Carbon dioxide gas concentration (from 0-500ppm 0-0.05% to 0-100%). Resolution 20 ppm (Standard 0-5000ppm)
- Carbon Dioxide NDIR (Non Dispersive Infra Red) sensor
- Carbon monoxide concentration within 0 to 100 ppm resolution 1 ppm. Long life electrochemical sensor.
- Moisture reading of RH from 0,0 to 99,9% and absolute humidity in mg/m3.
- New capacitive technology sensor.
- Gas flow temperature within -4° to 176°F (-20° to +80°C).
- Sensors status indication.
- · Heavy duty waterproof Explorer case and internal aluminum panel.
- · Independent audible and visible alarms for any sensor.
- · Internal lithium ions rechargeable battery with car lighter or external AC adapter. • Two relays with exchange contact driven by the alarm values non-volatile memory to maintain configuration data and calibration up to 10 years in case of power failure.
- Calibration utility.
- · Power indication for external battery or AC adapter.
- Available with OLED display (optional)
- · Standard sensors connections to gas flow.
- · PC connection with serial cable and software.(optional)
- Dimensions: 12x10.5x 5 3/4 in. (30.5x27x14.4 cm) Weight 4.5 lb. (2 Kg)



Nuvair has teamed up with DE-OX a manufacture of Gas Analyzers for the Diving, Medical, Safety, Industrial and Government sectors.

The new analyzer range is designed to be portable, rugged, accurate and user friendly. Most of the analyzers fit into the palm of your hand and offer user changeable batteries and sensors.

The DE-OX range includes:

- Oxygen or O2 Analyzers with a range from 0-100% O2
- Carbon Monoxide or CO Analyzers with a range from 0-100 ppm CO
- Carbon Dioxide or CO2 Analyzers with a switchable range from 0-500 ppm or 0-2000 ppm CO2
- Helium or He Analyzers with a range of 0-100% He Concentration
- Multi Gas Analyzer for O2, CO, CO2 & Moisture

Advantages

- Large Display
- Fast Response
- Made to Test Breathing Gases
- Easy To Operate, Reliable and Accurate
- User Changeable Batteries & Sensor
- Automatic Calibration

Features

- On/Off Switch
- · Low Battery Warning Indicator
- Two- Hi/Low Custom Audible & Visual Alarms
- 4-20 mA Analog output for external devices
- Capable of shutting down compressor at set alarm

info@nuvair.com 2949 west 5th St.

1-805-815-4044 Oxnard, Ca 93030

All analyzers must be checked for calibration using a certified test gas equal to the mixture being analyzed before each use and monthly.





