

# Монитор кислорода EII CO

## Руководство по эксплуатации

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## 1 Introduction

### 1.1 Package Content

On opening your Analox EII CO, please check you have the following items.

- a) EII CO
- b) Sampling dome
- c) User manual
- d) Any accessories ordered for your EII CO, from:
  - Storage Case
  - Bump Testing Gas Kit (10 ppm CO Aerosol)



### 1.2 About the EII CO

The EII CO carbon monoxide (CO) analyser is designed to measure CO levels in the range 0 to 50ppm for tank CO level checking.

The EII CO is ergonomically designed, and equipped with several features to ensure ease of use and reliability. The instrument has been designed to be held in the left hand to facilitate checking your tank. It is fitted with a large digital display and incorporates an internal electrochemical carbon monoxide sensor. Power is provided by a 9V battery which will last for approximately 1 year before replacement is necessary. The EII CO will automatically switch off after 10 minutes to ensure battery life is not compromised if the instrument is accidentally turned on.

The EII CO is water and drop resistant. Designed specifically for the diving industry – whether you may be a Sport, Commercial or Military diver - where hostile environmental conditions are the norm not the exception.

Your EII CO is supplied ready to use, all you need to do is push in the sampling dome.

## 2 Operation

### 2.1 Switching On

The analyser is fitted with an 'ON' button located on the side of the unit when held in your left hand the button should sit comfortably under your thumb. To turn the unit on press the button once; the analyser's display will now show a carbon monoxide reading in parts per million (ppm).

**Do not use the EII CO before calibration** (see Section 3).

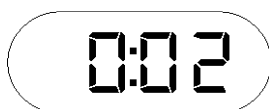


Switch On

### 2.2 Freezing the Display

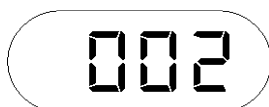
In use, the 'ON' button also acts as a 'HOLD' button to allow the instrument to be removed from the tank for easier reading without losing the measured gas concentration.

Press once to freeze the current reading on the display (a frozen reading is indicated by a ':' symbol being shown)



Reading held

Press again to cancel and continue measuring:



Reading released (monitoring ambient CO)

### 2.3 Switching off

The EII CO will automatically switch off after 10 minutes to prevent the battery from being drained if the unit is accidentally switched on.

### 2.4 Low battery indication

The low battery warning is shown by an 'L' on the display, indicating that the battery **must** be changed before using the instrument (see Section 6.1).



'L' Low battery symbol

**WARNING**  
**Do NOT use when the LOW BATTERY symbol is displayed!**

## 2.5 Checking your Tank

The EII CO comes complete with a unique sampling dome which allows you to directly apply the analyser to the outlet on your tank.

1. Ensure that the span calibration of the device is within date (within 6 months)
2. Ensure that the instrument has been zero calibrated (see section 3.1) and bump tested (see section 3.2) before checking your tank.
3. Push the sampling dome into the sensor aperture.
4. **Very slowly** open the pillar valve with your right hand until the hiss of gas escaping can just be heard.



**WARNING: Open tank valve  
EXTREMELY CAREFULLY  
before applying the EII CO**

**Eye protection should be worn  
during this procedure**

5. Hold the EII CO in your left hand and press the sampling dome firmly against the tank outlet.



Take a direct reading from your tank

6. Close the pillar valve after thirty seconds when a stable reading is observed on the EII CO.
7. If in doubt repeat the procedure taking care to ensure a very low gas flow.
8. For ease of use, the EII CO is fitted with a hold feature. Once a stable reading has been observed, press the 'ON' button to hold this reading. The EII CO can then be moved away from the tank to enable you to record the CO reading. To cancel the reading, press the 'ON' button again.



Reading held

9. It is important to note that after a few seconds of the gas flow being stopped the reading will begin to change towards the level in the surrounding air (0ppm CO) you should therefore take the reading or press the hold button while flow is ON.

**NOTE:** When the EII CO is used to measure the carbon monoxide in a heliox or trimix gas a helium compensation factor should be applied to the measured value. See section 4 for details of the helium sensitivity effect and how to apply the helium compensation factor.

#### **WARNING**

**Very high flows may pressurise the sensor and inaccurate readings or sensor damage will result.**

## **2.6 Maximum allowable CO exposure levels**

The maximum allowable CO exposure levels for air diving vary in the standards set from one country to another, so you may want to consider referring to the applicable safety standards for your country to determine your maximum allowable CO exposure level.

However, Analox advises that the maximum allowable CO exposure levels should be to that stated in the British Health and Safety Executive (HSE) **DVIS9(rev1)** document (Diver's breathing air standard and the frequency of examination and tests (Diving Information Sheet No 9 (Revision 1))).

This states that: Carbon monoxide content shall be as low as possible but not exceed **3 ppm**. (For air diving to 50metres)

### 3 Pre-use checks

#### **WARNING**

**Do not leave the analyser in direct sunlight, this may result in the analyser failing the Zero set calibration.**

#### 3.1 Zero set

Zero calibration (performed in clean air) is essential before every use and is performed as follows.

1. Expose the analyser (with sampling dome disconnected) to clean air for two minutes and adjust the calibration knob until the display reads 0ppm. If this is not possible refer to Section 5.

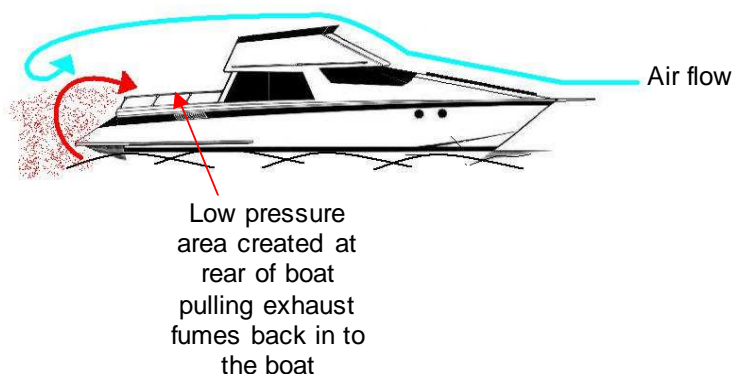


Calibration in clean air

The analyser is now ready for bump testing.

#### **SAFETY WARNING**

It is of vital importance that the zero calibration is performed with a source of clean air. Just because a calibration is performed in the open air on board a boat it should not be assumed that the air is clean. Due to backdrafting, or the 'Station Wagon' effect, accumulation of carbon monoxide can occur in the cabin or aft deck, even in an open area.



This effect occurs as air moves around a boat and forms a low pressure area behind it that tends to pull exhaust fumes back into the boat. If the EII CO is calibrated using this already contaminated air it will result in false tank gas measurements. Users should be aware of this and should take appropriate measures to ensure a clean air source is used when performing a zero calibration as the accuracy of the measurement of the breathing air tank is only as accurate as the initial calibration.

The risk of air contamination does not only exist when the boat is moving at speed, it can also be encountered with the boat moving at slow speed or idling. The air in your boat can also be contaminated by another vessel's exhaust that is alongside and even if you are moored near another vessel.

To ensure the accuracy of the zero calibration the following should be considered:

1. Check the contents of your gas cylinders before boarding the boat
2. Use a known clean source of air to pass a flow directly over the sensor using the push-in calibration adaptor
3. Calibrate the EII CO using the zero calibration kit (see section 7.2)

### 3.2 Bump testing

A 'bump' test is a means of verifying that the instrument is working within acceptable limits by briefly exposing to a known gas mixture formulated to change the output of the sensor. This is different from a calibration where the instrument is also exposed to a known gas mixture but is allowed to settle to a steady figure and the reading adjusted to the stated gas concentration of the test mixture.

You can bump test your EII CO utilizing one of the follow methods: The first of which, and preferred method, utilizes a 10 ppm bump gas. The second method permits the use of your breath when traditional bump gas is not available.

Bump testing of the device is necessary to ensure correct response to carbon monoxide gas.

#### 3.2.1 Traditional bump test

1. Power the EII CO up and set the display to zero
2. Directing the nozzle tube of the bump test gas aerosol into dome aperture, spray the bump test gas for 5 seconds.





3. Ensure that the displayed reading rises above 7ppm but below 13ppm CO



4. If bump testing fails to raise the display reading sufficiently, ensure that sufficient gas remains in the bump test kit. Please see Section 5 for further troubleshooting information.

### 3.2.2 Bump test your EII CO with your breath

1. Power the EII CO up and set the display to zero
2. Take a deep breath and hold it for 5 to 10 seconds
3. With the dome adaptor removed, exhale a slow and even breath into the dome aperture



4. Ensure that the displayed reading rises to 1 to 2ppm (smokers may see a higher sensor response)
5. If breath testing fails to raise the display reading sufficiently, then a traditional bump test should be performed as per section 3.2.1. Please see Section 5 for further troubleshooting information.

#### 4 Helium sensitivity effect

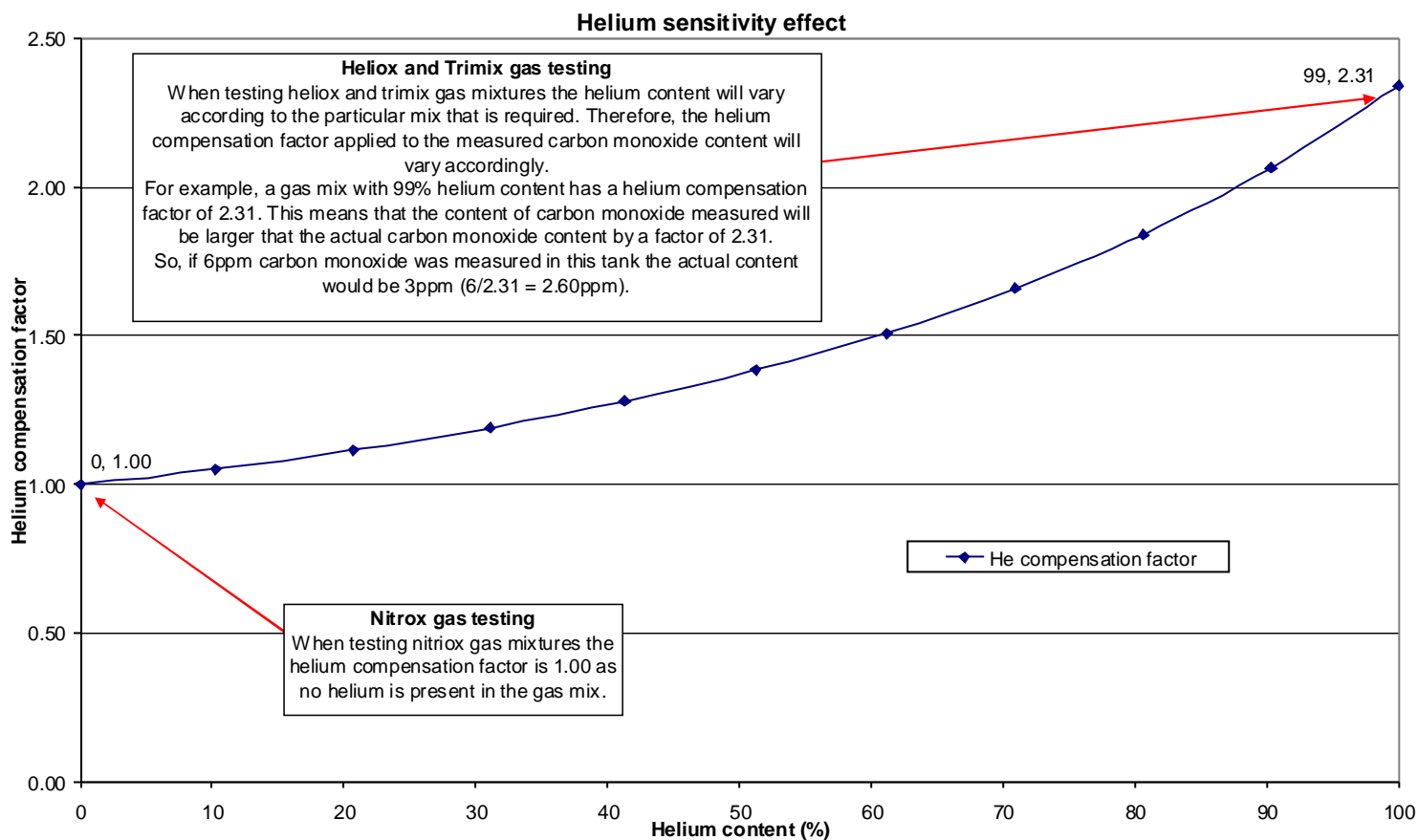
The carbon monoxide sensor used in the EII CO is a capillary type sensor. These types of sensors are affected by the presence of helium (He), and in such cases give higher than anticipated outputs. The reason for this phenomenon is due to the small size of the helium molecule. When present in high concentration the helium molecules diffuse rapidly through the capillary into the carbon monoxide sensor and at the same time allowing more rapid diffusion of the much larger carbon monoxide (CO) molecules. The result of this process is that as the concentration of helium increases a greater number of carbon monoxide molecules enter the sensor which results in artificially high readings.

For this reason a helium compensation factor should be applied to the measured value of carbon monoxide when measuring heliox or trimix gas.

The effect of the presence of helium in the sample gas is to increase the carbon monoxide cell sensitivity. This means that as the amount of helium increases to its typical maximum level (typically 99% He in a saturation diving application) the sensitivity of the CO cell increases by a factor of approximately 2.31 (typical).

So, if 6ppm carbon monoxide was measured in a tank containing 99% He, the actual content would be 3ppm ( $6/2.31 = 2.60\text{ppm}$ ).

The chart below (Figure 1) shows the typical helium sensitivity effect across a helium content range of 1% to 99%, which is the typical range of Helium content used in diving applications.



The chart shows that as the % of He increases it has the effect that the displayed measured value will be greater than the actual carbon monoxide content in the mix. This ensures that any inaccuracies are 'fail-safe'.

The look-up table below (Figure 2) shows a simplified representation of this data to quickly identify the compensation factor to be applied to your tank gas measurement.

% Helium in mix	Compensation factor
0 to 17	1.0
17 to 31	1.1
31 to 42	1.2
42 to 52	1.3
52 to 60	1.4
60 to 66	1.5
66 to 78	1.6
78 to 83	1.8
83 to 89	1.9
89 to 95	2.0
95 to 99	2.2

**Figure 2**

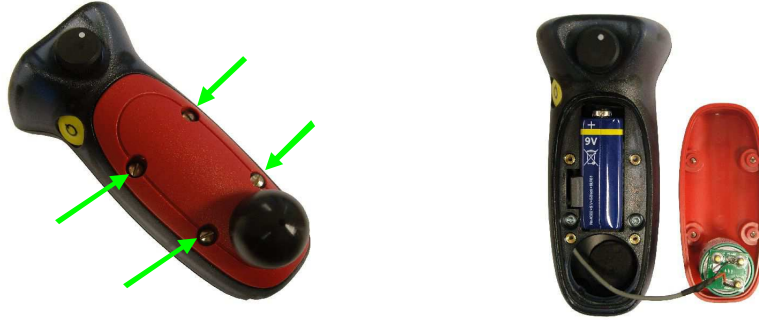
## 5 Troubleshooting

SYMPTOM	CONDITION	ACTION
'L' symbol	Low battery	Change battery
No display	Switched off	Switch on
	Poor battery connection	Check battery connection Return to supplier
Bump test fail	Sensor expired	Please refer to website
	Incorrect bump gas	Ensure bump gas is 10ppm CO (as supplied by Analox)
	Calibration expired	Contact an Analox approved service centre or purchase a calibration kit.
	Bump test gas exhausted	Contact Analox to purchase a new bump test kit (A bump test kit should supply around 20 bump tests)
Not enough adjustment on calibration knob to zero display	Ambient air is contaminated	Perform the zero set procedure (section 3.1) again in clean air or calibrate using the Zero Calibration Kit (section 7.2)
	Reading held Sensor failure Faulty connections	Press 'ON' button to unfreeze Change sensor Return to supplier
Tank gas measurement taken is reading negative	EII CO calibrated using Contaminated air	Perform the zero set procedure (section 3.1) again in clean air or calibrate using the zero calibration kit (section 7.2)
Reading erratic	Pressure on sensor	Reduce gas flow rate
	Radio interference	Move unit away from any radio equipment
	Sensor old or faulty	Change sensor
	Condensation on sensor	Shake water off sensor face
Reading does not change when calibration knob is turned	Reading held	Press 'ON' button to unfreeze
	Sensor failure	Change sensor
	Faulty connections	Return to supplier
Display segments missing	Display faulty	Return to supplier
Will not calibrate	Sensor faulty	Change sensor
	Sensor not in air	Check sample dome is not fitted
Reading drifts	Rapid temperature change	Do not move analyser from one temperature to another immediately before use

## 6 Maintenance

### 6.1 Battery replacement

1. Loosen the 4 screws located on the front cover. The gasket seal is designed to prevent water leaking into the EII CO so the seal may be tight. Loosen the seal by moving the lid from side to side, and then carefully lift the cover.



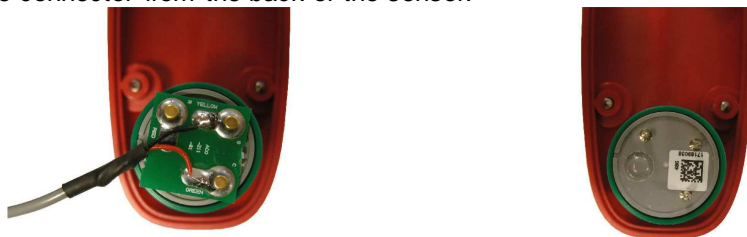
2. Slide the battery out of its holder and disconnect the lead.
3. Connect the lead to the new battery and slide the battery into its holder, under the battery clip
4. Replace the cover carefully taking care that the sensor locates properly, and that no wires are trapped. Screw down until you feel the gasket compress; do not over tighten the screws.

### 6.2 Sensor replacement

1. Replacement part number for your sensor is: 9100-1700A
2. Remove the sampling dome and loosen the 4 screws located on the front cover. The gasket seal is designed to prevent water leaking into the EII CO so the seal may be tight. Loosen the seal by moving the lid from side to side, and then and carefully lift the cover.



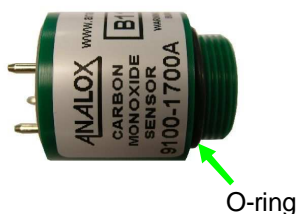
3. Unplug the connector from the back of the sensor.



4. Unscrew the sensor from the front cover.



5. Dispose of the old sensor according to local regulations for acidic compounds.
6. Remove the new sensor from its pack and check it for leaks (see section 7 for safety information), check the sensor has a rubber o-ring fitted at the base of the thread on the front of the sensor. Screw the sensor into the front cover tightly and connect to the EII connector. Align the metal sockets on the connector with the pins of the sensor and push on firmly.



7. Replace the cover carefully, ensuring that the sensor locates properly and that no wires are trapped. Screw down until you feel the gasket compress; do not over tighten the screws.
8. Push on the sampling dome.

**NOTE:** When a new sensor is fitted a full calibration **MUST** be performed, see section 7 for details of calibration and section 11 for details of calibration kits available.

### **6.3 General care**

Although designed to be water resistant the EII CO should not be intentionally immersed in liquid or left outside unprotected.

The EII CO is built to resist the effects of day to day shocks and drops but remember it is an electronic measurement device and should be looked after carefully to give long trouble free service.

To clean the EII CO use a damp soft cloth.

Protect the EII CO from long periods of direct sunlight and do not subject it to high or low temperature extremes.

The sensor in the EII CO is an electrochemical device and contains an acidic electrolyte. Always check to make sure that it is not leaking (see section 8 for safety information). In the event that you do come into contact with the electrolyte wash the contaminated part with copious amounts of water see Section 8.

### **6.4 Sensor handling information**

EII CO carbon monoxide sensors are normally supplied in sealed packs. Before the pack is opened, check that the sensor has not leaked. The sensors are themselves sealed and do not under normal circumstances present a health hazard however if leakage of the electrolyte has occurred use rubber gloves and wear chemical splash goggles to handle and clean up. Rinse contaminated surfaces with water. If anybody comes into contact with the electrolyte, please refer to Section 8.

## 7 Calibration

### 7.1 Span calibration

To meet the factory calibration specifications given in section 10, span calibration is required every six months (See section 11 for details of calibration kits available).

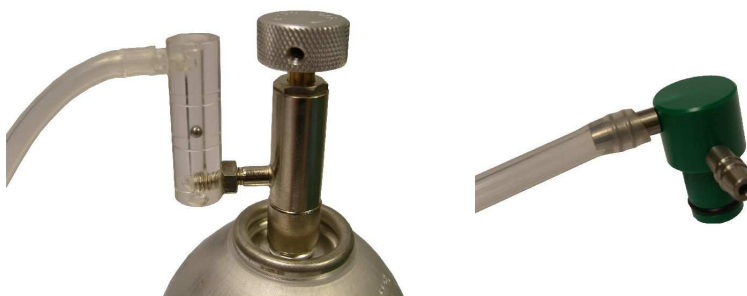
For reduced accuracy operation, the EII CO can be used as a Go/No Go tester provided that the unit passes a zero set and bump test as specified in section 3

Alternatively, contact an Analox approved service centre for span calibration. A full list of service centres can be found on the Analox website

### 7.2 Calibration using the zero calibration kit

If in doubt that the ambient air where the EII CO is in use is clean (i.e. free of carbon monoxide) then the zero calibration gas kit, together with the calibration tool kit (see section 11), should be used to ensure an accurate calibration and maintain safe diving.

1. Screw the flow indicator on to the zero calibration cylinder (synthetic air) and fit the flow adaptor to the tubing



2. Remove the sample dome from the EII CO and push the push-in calibration adaptor in to the sample dome aperture. Press the ON button to switch the EII CO on. Ensure the EII CO display hold function is not active.



Flow adaptor fitted

3. Open the control valve of the flow indicator to set the flow indication ball between the two markers. Allow the gas to flow over the sensor until the display reading is settled. This should take no more than 2 minutes.





Flow indicator set

4. Adjust the calibration knob until the display reads 0ppm. If this is not possible refer to Section 5.



Display set to '000'

5. Close the air gas cylinder, remove the push-in calibration adaptor and re-fit the sample dome. The analyser is now ready for bump testing

## 8 Safety information

When the life of the battery has expired it should be disposed of safely in accordance with local regulations.

When the life of the sensor has expired or it is leaking or otherwise damaged it must be disposed of safely in accordance with local regulations.

The sensor contains an acidic electrolyte which is hazardous. In the event of an accident, use the following first aid procedures

Body Part	Effect	First Aid Procedures
Skin	<p>Contact could result in a chemical burn.</p> <p>Persons with pre-existing skin disorders may be more susceptible to the effects of the substance.</p>	<p>Immediately flush the skin thoroughly with water for at least 15 minutes.</p> <p>Remove contaminated clothing and wash before re-use.</p> <p>Obtain medical advice if continued irritation.</p>
Ingestion	<p>Corrosive. May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and stomach, and may be fatal.</p>	<p>If swallowed DO NOT INDUCE VOMITING.</p> <p>Wash out mouth thoroughly with water and give plenty of water to drink.</p> <p>Obtain medical advice immediately</p>
Eye	<p>Persons with pre-existing eye problems may be more susceptible to the effects of the substance.</p> <p>Corrosive. May cause redness, pain, blurred vision, and eye burns.</p> <p>Contact can result in the permanent loss of sight.</p>	<p>Irrigate thoroughly with water for at least 15 minutes.</p> <p>Obtain medical advice immediately.</p>
Inhalation	<p>Persons with pre-existing impaired respiratory function may be more susceptible to the effects of the substance.</p> <p>Inhalation is not an expected hazard unless heated to high temperatures.</p> <p>Mist or vapour inhalation can cause irritation to the nose, throat, and upper respiratory tract.</p>	<p>Remove to fresh air.</p> <p>Rest and keep warm.</p> <p>Obtain medical advice if applicable.</p>

## 9 Warranty information

We provide the following Warranties for the EII CO:

A 3 year electronics warranty.

A 1 year sensor warranty.

In both cases the Warranty period runs from the date of our invoice.

We warrant that the equipment will be free from defects in workmanship and materials.

The warranty does not extend to and we will not be liable for defects caused by the effects of normal wear and tear, erosion, corrosion, fire, explosion, misuse, use in any context or application for which the equipment is not designed or recommended, or unauthorised modification.

Following a valid warranty claim in accordance with the above, the equipment, upon return to us, would be repaired or replaced without cost or charge but in our discretion we may elect instead to provide to you which ever is the lesser of the cost of replacement or a refund of net purchase price paid as per our Invoice on initial purchase from us. We shall have no liability for losses, damages, costs or delays whatsoever. We shall have no liability for any incidental or consequential losses or damages. All express or implied warranties as to satisfactory or merchantable quality, fitness for a particular or general purpose or otherwise are excluded and no such Warranties are made or provided, save as set out in this Clause 7.

In order to effectively notify a Warranty claim, the claim with all relevant information and documentation should be sent in writing to:

Analox Ltd  
15 Ellerbeck Court  
Stokesley Business Park  
Stokesley  
North Yorkshire  
TS9 5PT

Or by e-mail to : [info@analox.net](mailto:info@analox.net)  
Or by Fax to : +44 1642 713900

We reserve the right to require from you proof of dispatch to us of the notification of warranty claim by any of the above alternative means.

The equipment should not be sent to us without our prior written authority. All shipping and Insurance costs of returned equipment are to be born by you and at your risk. All returned items must be properly and sufficiently packed.

**10 Specifications after factory calibration**

Range	0 to 50ppmCO
Accuracy	$\pm(0.5\text{ppm CO} + 5\% \text{ reading})$
Resolution	1ppm CO
Warm up time	< 5 seconds
Response time ( $T_{90}$ )	< 20 seconds
Sensor type	Analox 9100-1700A type electrochemical sensor
Sensor life	2 years in air 1 year warranty
Battery	9V Alkaline (PP3)
Battery life	Approximately 1 year
Operating temp	-5 to 50°C / 23 to 122°F
Storage temp	-20 to 50°C / -4 to 122°F
Pressure	1013mbar $\pm$ 10%
Temperature effect	<2 ppm CO/°C (<1.1 ppm CO/ °F)
Calibration gas flow rate	0.5 to 1.0 litres/minute
Weight	225g / 8oz
Dimensions	130 (l) x 70 (w) x 55 (d) mm 5 ¼ (l) x 2 ¾ (w) x 2 ¼ (d) inches
Ingress protection	IP65/ NEMA 4

If you have any comments or queries about the **EII CO** please contact us;

**10.1 Specifications using bump test and zero set only**

Accuracy	+/- 1 digit up to 10ppm CO
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## 11 Spares

The EII CO can be supplied with any of the following accessories;

Item	Description	Part Number
	Storage case; compact water proof case ideal for protecting your EII CO.	SA2EIIIMINICASE
	Bump test gas kit 10ppm CO in balance air  Providing around 20 bump tests from a standard bump test kit.	SA7CAN510
	Span calibration gas cylinder 10ppm Carbon monoxide in balance air	SA7EIIICOCALKIT
	Zero calibration gas cylinder Synthetic air 21% oxygen balance nitrogen	SA7EIIICOZCALKIT
	Calibration tool kit  Comprising: Trimming tool T10 torx driver Flow indicator for gas bottles EII CO push-in cal adaptor EII CO calibration DVD Analox 500Mb USB stick	SA7EIIICOTOOLKIT

## 12 Disposal



According to WEEE regulation this electronic product can not be placed in household waste bins. Please check local regulations for information on the disposal of electronic products in your area.

### 13 Declaration of Conformity

## DECLARATION OF CONFORMITY

Number: P0107-903-00

Manufacturers name: Analox Sensor Technology Ltd

Manufacturers address: 15 Ellerbeck Court  
Stokesley Business Park  
Stokesley  
England  
TS9 5PT

It is declared that the following product:

Product name: Analox EII CO

Product code: EII CO

Conforms to all applicable requirements of: BS EN 61000-6-1,  
BS EN 61000-6-3,  
IEC/EN 61010-1:2001 (2nd ed)  
BS EN 60529 IP6X

The above product complies with the requirements of the EMC Directive 89/336/EEC, as amended.

The above product complies with the requirements of the Low Voltage Directive 73/23/EEC, as amended.

Signed on behalf of: Analox Sensor Technology Ltd

Date: 01<sup>st</sup> December 2010

Signed:



Name: Mark Lewis

Position: Managing Director

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