

Quick Check

SYMPTOM	CONDITION	ACTION
'bAt L' symbol flashing intermittently on display	Low battery	Change battery
Zero reading on O ₂	O ₂ sensor disconnected O ₂ sensor expired No Oxygen	Check connection Change sensor Check in air and ensure sensor face is free from obstruction
'Err' shown on Helium display	Helium sensor disconnected Helium sensor fault	Check connection Return to supplier

Accessories

The ATA™ can be supplied with any of the following accessories;

a) DIN Flow restrictor

Part Number: MI02REDIN

b) A Clamp flow restrictor

Part Number: MI02ACLAMP

c) Storage Case: compact water proof, drop proof case ideal for storing your ATA™ and accessories

Part Number: SA2ATACASE

d) Waterproof Bag; 2 pocket fold up bag ideal for storing your sampling kit and accessories

Part Number: SA2ATABAG

Replacement Part Numbers

Oxygen Cell	9100-9212-9H
Helium Cell	9100-4235
Flow Adaptor	8000-0075A

IT IS IMPORTANT THAT THESE INSTRUCTIONS ARE READ BEFORE USING THE ANALOX ATA™

Specifications

Range:	0.1-100% O ₂ , 0.1 - 100% He
Accuracy:	+/- 1% at STP
Resolution:	0.1%
Warm up time:	<15 seconds
Response time:	90% in less than 15 seconds
O ₂ Sensor type:	Analox 9100-9212-9H EC sensor
O ₂ Sensor life:	4-5 years in air 36 month graded warranty
He Sensor Type:	Analox 9100-4235 TC Sensor
He Sensor Life:	Expected 10 years 12 month warranty
Power (standard):	AA size Alkaline Battery
Battery life:	75+ hours
Power (option):	External 110/230V power supply
Operating temp:	0 to 50°C / 32 to 122°F
Storage temp:	-5 to 50°C / 23 to 122°F
Weight:	0.6kg
Dimensions (mm):	195 (l) x 130 (w) x 58 (d) (7.28 x 5.12 x 2.30")
Certifications:	CE Marked
IP rating:	IP65

Warranties:

The ATA™ is supplied with a 1 year Helium sensor warranty, a 3 year graded warranty on the O₂ sensor and a 2 year electronics warranty. Visit the website to register your warranty

Technical manual details:

Visit our website for the full technical manual www.analox.net (for US customers visit www.amoxtec.com). Click on the diving section and then Trimix. If you have any queries please do not hesitate to contact us.

Analox Sensor Technology Ltd

Wainstones Court
Stokesley Industrial Park, Stokesley
North Yorkshire, TS9 5JY UK

Tel: +44 (0)1642 711400
Fax: +44 (0)1642 713900
info@analox.net

www.analox.net

www.amoxtec.com

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ANALOX
looking after the air YOU breathe®

Analox ATA™



**User manual for
true trimix analysis**

Patent Pending

About the ATA™

The Analox ATA™ is designed to be a true trimix analyser, measuring the concentrations of Oxygen, Helium and balance gas in your trimix.

The ATA™ has been designed to offer the highest levels of accuracy without comprising ease of use. Oxygen calibration and Helium zero adjust features are provided as standard, and Oxygen compensation is provided to ensure you get more accurate Helium readings.

Readings are displayed individually on a scroll through backlight display.

Power is provided by 1 D size battery or mains power, if the option has been ordered. The ATA™ will automatically switch off after 15 minutes to ensure battery life is not compromised if the instrument is accidentally turned on.

Packaging & Contents

On opening your Analox ATA™, please check you have the following items.

- a) ATA™ & battery
- b) Flow adaptor & tubing
- c) O₂ Compensation card
- d) User manual & test certificate
- e) Any options or accessories ordered for your ATA™, from:
 - External power adaptor
 - DIN or A-Clamp flow restrictor
 - Storage case
 - Waterproof bag

Operation

Open the case and install your battery, ensuring the polarity is correct.

Oxygen Sensor Calibration

Oxygen sensor calibration in clean air is essential before every use and is performed as follows:

- 1) Remove the flow adaptor from the sensors
- 2) Expose the analyser to clean air for two minutes and adjust the calibration knob until the display reads the correct value using the oxygen compensation chart.
- 3) It is possible that at very high altitude normal calibration is not achievable. In this event you must ascertain the actual pressure in BAR and multiply the atmospheric oxygen percent (20.9%) by this pressure. Please refer to the technical manual for further details.



Helium Sensor Zero Adjust

The helium sensor zero adjust enables you to retain the accuracy of the analyser over its expected life, as the sensor ages.

- 1) Remove the flow adaptor from the sensors.
- 2) Use the mode button to change the display to read helium.
- 3) Expose the analyser to clean air for two minutes and adjust the calibration knob until the display reads 0.0

Analysing your mix

The Analox ATA™ is provided with a flow adaptor and tubing which can be connected to a Din or A-Clamp restrictor.

- 1) Ensure the Analox ATA™ has been calibrated.
- 2) Push the flow adaptor into the sensors, as per the picture below.
- 3) Connect the DIN or A-Clamp restrictor to your tank and attach the tubing from the flow adaptor. Open your tank.
- 4) Allow the reading to stabilise on the display, **and take the O₂ reading.**
- 5) Use the mode button to change the display to read the Helium concentration. Ensure it is stable and take your reading.
- 6) Use the mode button to change the display to show the balance gas, ie the inferred Nitrogen concentration. Take your reading and close the tank.
- 7) If in doubt repeat the procedure taking care to ensure a very low gas flow.

WARNING

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

General Care

The O₂ sensor in the ATA™ is an electrochemical device and contains a caustic electrolyte. Do not handle the sensor if it is leaking. Refer to the technical manual for further advice.