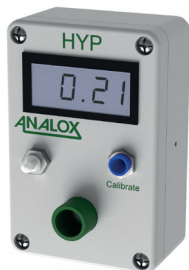


# HYP O2 Portable

## Quick Start Guide



The HYP O2 Portable is a versatile portable analyzer, suitable for monitoring partial pressure oxygen in several applications, including:

- Diving bells
- Chamber atmospheres
- Hyperbaric lifeboats
- Submarines

[www.analoxgroup.com/products/hyp-partial-pressure-o2-analyzer](http://www.analoxgroup.com/products/hyp-partial-pressure-o2-analyzer)

Scan the QR code to visit the Analox HYP O2 Portable web page



Document ref: MO2-840-02



## 1. Packaging and Contents

Please check you have the following items:

- HYP O2 Portable
- Quick Start Guide
- Test Certificate
- Any accessories ordered for your device

## 2. Sensor Handling



**WARNING:** THE SENSOR IN THE HYP O2 PORTABLE IS AN ELECTROCHEMICAL DEVICE AND CONTAINS AN ACIDIC ELECTROLYTE. ALWAYS CHECK TO MAKE SURE THAT IT IS NOT LEAKING AND DO NOT ALLOW IT ONTO ANY PART OF YOUR BODY OR CLOTHING. IN THE EVENT THAT YOU DO COME INTO CONTACT WITH THE ELECTROLYTE WASH THE CONTAMINATED PART WITH PLENTY OF WATER. FOR FURTHER INFORMATION PLEASE SEE THE FULL USER MANUAL WHICH CAN BE FOUND AT THE WEB ADDRESS ABOVE.

## 3. Accessories

The HYP O2 Portable can be supplied with any of the following accessories:

Accessory	Part Number
Sample Draw Kit	GENPISDK
Cal Kit	SA7HYPCALKIT
Flow Adaptor*	8000-0011GA
* Not required if you have either of the above accessories.	

## 4. Operation

The display indicates the partial pressure of oxygen at the sensor.

The compact size allows for convenient fitting within confined spaces such as diving bells and hyperbaric lifeboats, or alternatively the unit can easily be hand carried.

It is very simple to use, with just a single toggle switch to switch power on and off, and an LCD display.

It may be used at depths of up to 600MSW / 2000FSW, and can also be used at surface pressures.

## 5. Calibration

The HYP O2 Portable should be calibrated before each use in fresh air. Use the formula to calculate the ambient oxygen level.

Adjust the trimmer on the front panel, until the display reading matches. No zero adjustment necessary.

Display reading (bar) = 0.21 x Absolute Pressure (bar)



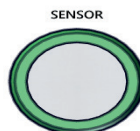
**CAUTION:** THE MONITOR SHOULD ONLY BE SUBJECT TO PRESSURE CHANGES AT A RATE SUITABLE FOR HUMAN BEINGS



ON/OFF SWITCH



CALIBRATE +/-



SENSOR

It may be damaged if subjected to rapid rates of compression or decompression.

It should NOT be passed through chamber medical locks.

## 6. Specifications

Range:	0.00 to 2.00bar ppO <sub>2</sub>
Accuracy:	±1% of reading, ±1LSD
Resolution:	0.01bar ppO <sub>2</sub>
Response time (T <sub>90</sub> ):	<15 secs to T <sub>90</sub>
Sensor type:	Analox 9100-9212-5H type electrochemical sensor
Expected sensor life:	Up to 3 years at 0.21 bar ppO <sub>2</sub>
Battery:	9V Alkaline (PP3)
Battery life:	1 month (800 hours) continuous operation 3 months operation for 8 hours per day
Operating temperature:	-5 to 50°C / 23 to 122°F
Temperature effect:	0.2% O <sub>2</sub> /°C 0.110% O <sub>2</sub> /°F
Weight:	200g/7.76 oz
Operating pressure:	0.8 to 60 bar absolute (approx. 600MSW/2000FSW)
Dimensions:	98 (l) x 64 (w) x 36 (d) (mm) 3.75 (l) x 2.5 (w) x 1.5 (d) (Inches)
Protection:	IP65
Warranty:	Electronics: 1 year Sensor: 3 months

## 7. Oxygen Compensation Chart

Oxygen compensation chart for moisture in the atmosphere

ATMOSPHERE OXYGEN PERCENT IN RELATION TO TEMPERATURE AND RELATIVE HUMIDITY										
Temp °F	32	40	50	60	70	80	90	100	110	120
Temp °C	0	4	10	16	21	27	32	38	43	49
RELATIVE HUMIDITY	ATMOSPHERIC OXYGEN PERCENT									
10	20.9	20.9	20.9	20.9	20.8	20.8	20.8	20.8	20.7	20.7
20	20.9	20.9	20.8	20.8	20.8	20.8	20.7	20.6	20.5	20.4
30	20.9	20.8	20.8	20.8	20.7	20.7	20.6	20.5	20.4	20.2
40	20.8	20.8	20.8	20.7	20.7	20.6	20.5	20.4	20.2	19.9
50	20.8	20.8	20.8	20.7	20.6	20.5	20.4	20.2	20.0	19.7
60	20.8	20.8	20.7	20.7	20.6	20.5	20.3	20.1	19.8	19.5
70	20.8	20.8	20.7	20.6	20.5	20.4	20.2	19.9	19.6	19.2
80	20.8	20.8	20.7	20.6	20.5	20.3	20.1	19.8	19.5	19.0
90	20.8	20.7	20.7	20.6	20.4	20.3	20.0	19.7	19.3	18.7
100	20.8	20.7	20.6	20.5	20.4	20.2	19.9	19.5	19.1	18.5
H <sub>2</sub> O at 100% RH	0.6	0.8	1.2	1.8	2.5	3.4	4.7	6.5	8.6	11.5

If the temperature and RH axis meet in this part of the chart, calibrate to the chart O<sub>2</sub> level or with dry air to maintain 0.5% O<sub>2</sub> accuracy in NITROX.

## 8. Disposal

### WEEE statement

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

Analox will provide a disposal service if this is beneficial to the customer. Analox are registered for the disposal of WEEE in the UK through the Environment Agency (2013 Registration number WEE/KE00435Y).



## 9. Service and Support

Scan the QR code to visit the Analox Technical & Service Support web page



<https://customersupport.analox.net/support/home>

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