FORENSICS DETECTORS FD-OXY1000 Oxygen Analyzer Owner's Manual

Contents

FORENSICS DETECTORS FD-OXY1000 Oxygen Analyzer

Product Information

WARNING

- KEEP DETECTOR AWAY EMI INTERFERENCES (i.e. PHONES & MAGNETS)
- STORE DETECTOR WITHIN SPECIFICATIONS
- IF UNWELL, SEEK CLEAN AIR & MEDICAL HELP
- DO NOT OPEN THE UNIT
- KEEP AWAY FROM DUST HARSH CHEMICALS
- MAXIMUM PRESSURE SENSOR IS <100KPA
- DO NOT USE FOR HUMAN MEDICAL EQUIPMENT – not issued an FDA 510(k) premarket notification.

INTRODUCTION

You have purchased the OXYGEN ANALYZER by FORENSICS DETECTORSTM. This is our OXY1000 detector made for easy single button use with simple and easy functionality. The oxygen analyzer is designed to oxygen from that generate oxygen from ambient air. This instrument will confirm oxygen concentration (O2), flow (F) and pressure (P) and is a useful and accurate way to check the correct operation of a oxygen system. The new device is already calibrated so Turn ON and GO!

BATTERY CHARGING

The product has a built-in lithium battery and is charged via the supplied charger +12VDC. Battery operation can last for over 24 hours if the backlight is OFF. Analyzer switches off automatically after 15 minutes to save battery power.

OXYGEN DETECTION

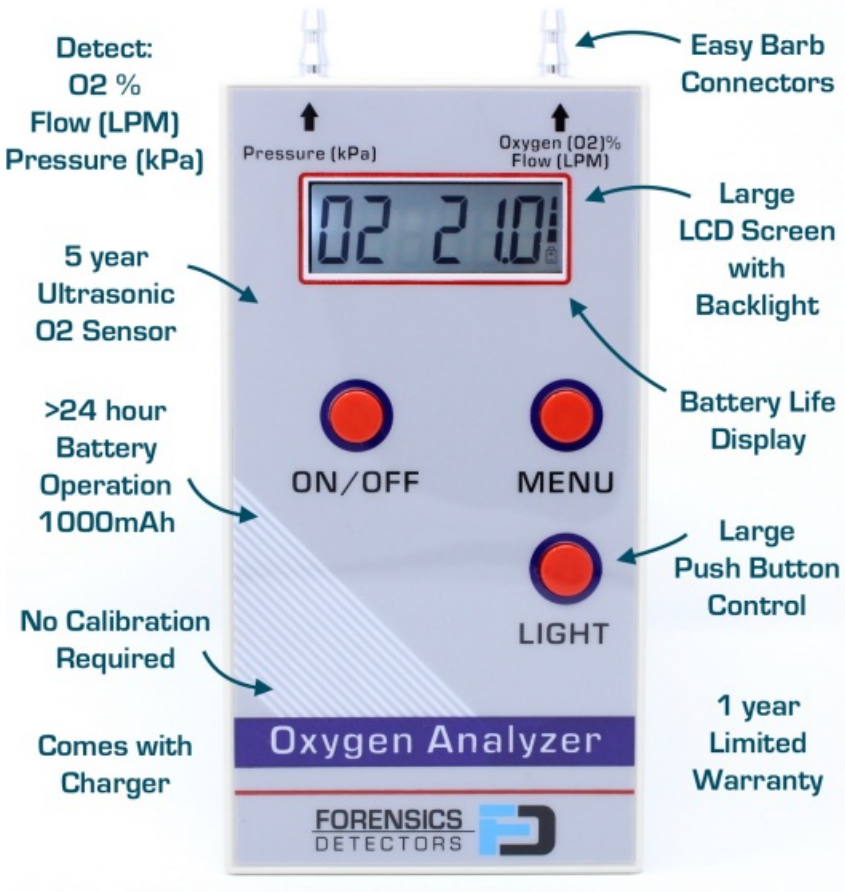
ON/OFF: Press POWER button for 1 second. The analyzer will turn ON. It will say HELLO and then will show the main screen that displays the detected oxygen concentration. On startup it should always read a oxygen (O2) concentration of 21%, which is the normal concentration in ambient air. The battery power and bar icon is also displayed. From this point forward, oxygen is automatically detected and the corresponding concentration is

displayed. Attach your tubing to the Oxygen barb input and start detecting oxygen. Allow at least 30 seconds for the reading to stabilize.

Support & Sales

- **WEB:** www.forensicsdetectors.com
- **Email:** sarah@forensicsdetectors.com

Overview



OXYGEN FLOW
Press MENU button: Go to the FLOW (F) detection screen. This feature is useful to determine the flow of your oxygen in LPM (liters per minute). Ensure the oxygen air supply tubing is in the Flow barb inlet, once connected the Flow value detected will show.

OXYGEN PRESSURE
Press MENU button: Next shows the PRESSURE (P) detection screen. This feature is useful to determine the oxygen pressure (kPa). Ensure the oxygen air supply tubing is in the Pressure barb inlet, once connected the Pressure value detected will show.

SPECIFICATIONS

- Sensor: Ultrasonic oxygen sensor
- Sensor Life: >5 years
- O2 Range: 21% – 95% (Error < ± 1.5% of O2)
- O2 Range: 96% – 100% (Error < ± 3.0 % of O2) O2
- Flow Range: 0 -10 LPM, Error < ±0.2 LPM O2
- Pressure Range: 0 – 100 kPa, Error < ± 2 kPa
- Response Time: < 30 seconds
- Storage / Operating Temperature: 40F–130F
- Storage / Operating Humidity: <95%RH
- Battery: DC +12V Li–Ion battery 1000mAh
- Dimension/Weight: 7×3.7×1.4inches, 10.4oz
- Charging Time: 4 hours
- Operating Time: >24 hours
- Calibration: not required

Quality Control and Inspection Report

Product	OXYGEN ANALZYER	Model:	**FD-OXY1000**		
Gas	O2	Serial:			
Range	21 – 100%				
Inspection Item	Technical requirements				Result
1. Repetition	< ±3%				**PASS**
2. Span drift	< ±3%				**PASS**
3. Response time	Diffusion < 30s				**PASS**
4. Appearance	smooth, complete and no marks				**PASS**
5. Labels	labels complete with serial label				**PASS**
6. Sensor Check	Responds to elevated oxygen (O2)				**PASS**
Qualified Official Stamp And Signature	**DO NOT** USE FOR HUMAN MEDICAL EQUIPMENT – not issued an FDA 510(k) premarket notification.				

FAQ (Frequently Asked Questions):

Q: How often should I calibrate the oxygen analyzer?
A: It is recommended to calibrate the analyzer at least once a month or as specified in the user manual to ensure accurate readings.

Q: Can the sensor probe be replaced if damaged?
A: Yes, if the sensor probe is damaged, it can usually be replaced following the instructions provided by the manufacturer. Contact customer support for assistance.

Q: What should I do if the readings seem inaccurate?
A: If you suspect inaccurate readings, recalibrate the analyzer and ensure proper placement of the sensor probe in the gas sample. If issues persist, contact technical support for further assistance.

Documents / Resources

	FORENSICS DETECTORS FD-OXY1000 Oxygen Analyzer [pdf] Owner's Manual FD-OXY1000 Oxygen Analyzer, FD-OXY1000, Oxygen Analyzer, Analyzer

References

- User Manual