

GRAINPRO® OXYGEN ANALYZER GPO2-AN
INSTRUCTION MANUAL
MA4034RDC1013-4



“A GREEN, NOT ONLY FOR
PROFIT COMPANY”



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1. INTRODUCTION

The GrainPro®Oxygen Analyzer GPO2-AN (Model ICA) is a portable percent analyzer that can be used for general purpose functions and capable of measuring oxygen levels within 0 to 21% range. The GPO2 is a rugged, portable, hand-held and light-weight oxygen monitor. It is installed with a long-life sensor specially designed for measuring oxygen in high concentrations of carbon dioxide.

1.1. FEATURES:

- 1.1.1. This new analyzer boasts its long-life oxygen sensor which is expected to last for more than five years.
- 1.1.2. High concentrations of carbon dioxide do not affect the sensor's life span and accuracy, making it perfectly suitable for monitoring gases inside regular and even Gas-Hermetic Fumigation products.
- 1.1.3. The analyzer can be used at high elevations without the need for any correction.

1.2. SPECIFICATIONS:

1.2.1. Sensor/Transmitter unit:

PARAMETERS	SPECIFICATION
Sensor type	Electro-chemical cell
Sensor range	0-21% Oxygen
Resolution	0.1%
Operating temperature	0°C to 35°C
Operating humidity	95% RH maximum non-condensing
Operating flow	0.5-1.5 LPM
Sensor life	5 years

1.2.2. General:

PARAMETERS	SPECIFICATION
Automatic switch off	Auto-off after 7-8 minutes
Power	9V Lithium manganese battery
Operation time, years	5
Display unit	LCD digital display (with low battery indicator)
Sampling pump	Inflating/Deflating hand pump
Carrying case dimension, cm	27x23x8 LWH
Weight	Approx. 0.90kg (Inc. carrying bag, sensor and battery)
Warranty	1 year
Others	Installed with security screws to prevent unauthorized opening

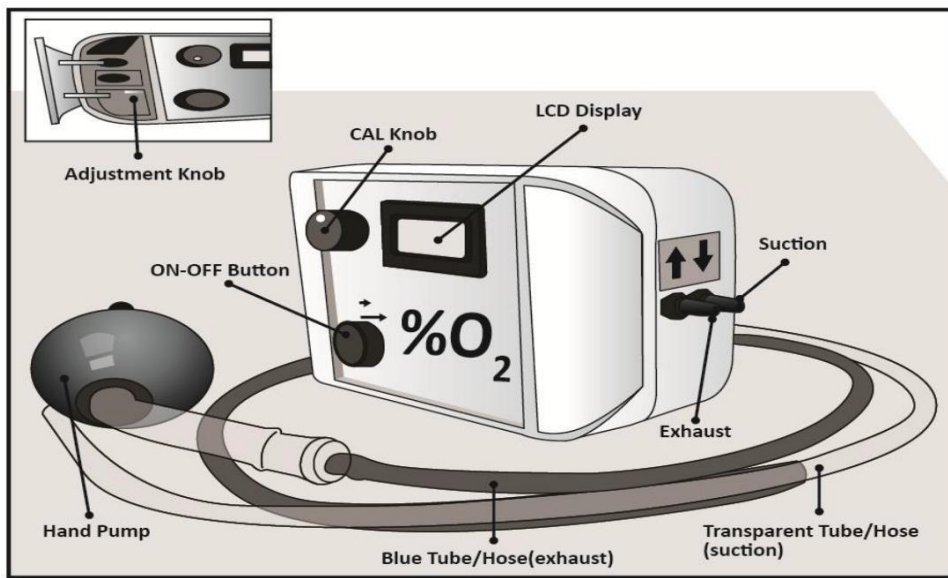
1.3. PRODUCT GUARANTEE:

- 1.3.1. In accordance with the terms and conditions herewith, GrainPro, Inc. guarantees the quality of this product per its written warranty provided it is used according to the instructions in this manual.
- 1.3.2. Please read and understand the manual thoroughly before using the Cocoon Indoor.

1.4. COMMENTS, COMPLAINTS, AND/OR CLARIFICATIONS:

- 1.4.1. Please contact customer@grainpro.com.
- 1.4.2. We shall be glad to address any of your concerns.

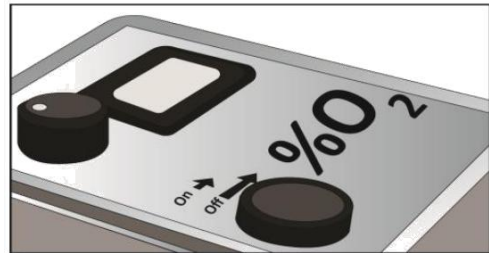
2. COMPONENTS



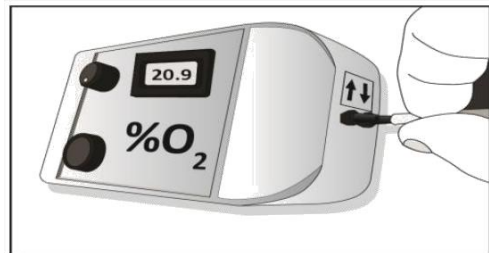
3. OPERATING THE ANALYZER

3.1. PREPARATION

3.1.1. The instrument is activated by pushing the red Power button. The display then indicates a value.

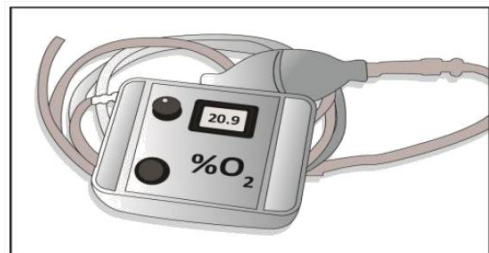


3.1.2. To prepare the analyzer for sampling, connect the exhaust tube (translucent white, soft) of the hand pump to the inlet port located at the right side of the analyzer.



3.2. MEASUREMENT

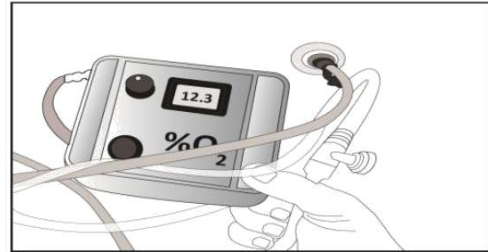
3.2.1. Perform span calibration by pumping clean air into the analyzer while setting the reading to $20.9 \pm 0.1\%$ by turning the black front panel calibration knob either clockwise or counter clockwise.



3.2.2. Insert the suction tube of the hand pump into the gas sampling port of the storage enclosure.



3.2.3. Pump air into the analyzer to measure the percent oxygen level inside the storage structure. Continue pumping until the reading stabilizes to its lowest possible reading. This is usually accomplished in less than a minute.



4. MAINTENANCE AND REMINDER

4.1. BATTERY

4.1.1. The analyzer has an auto-off feature after 7-8 minutes of operation to conserve its battery.

4.1.2. The battery fitted in this analyzer is a non-rechargeable long life 9V Lithium Manganese battery, expected to last for as long as five years and should be changed at the same time as the oxygen sensor.

4.1.3. A low battery will be indicated by a battery symbol on the display.

4.2. REMINDER 4.2.1. Gas sample should be free of dirt and liquid. Internal filter is fitted for final protection of sensor against sample contamination.

4.2.2. Filter can be changed by an authorized technician if needed.

5. WARRANTY CLAUSE

GrainPro® hereby warrants that products sold to Buyers shall be free of defects in workmanship and materials, for a period as follows, starting from the date of shipment (B/L): One year for the GrainProOxygen Analyzer GPO2- AN (ICA 100).

The warranty liability is limited to replacement of defective products within the warranty period at GrainPro's plant in accordance with the provisions specifically and expressly set forth herein.

The Buyer will pay for the products which need to be replaced under warranty, a percentage of the full list price according to the ratio between the period, which has passed until replacement, and the full warranty period.

The Buyer shall bear the shipping costs for shipment of defective Products to GrainPro®, and GrainPro® shall bear the shipping costs of returning good Products to Buyer.

The Warranty does not cover the cost of any service, work, or material required for the replacement of defective Products at the site of installation.

GrainPro® shall have no obligation under the warranty to replace defective Products or parts thereof if the defect is a result of any of the following: normal wear and tear; damages occurring after delivery, accidents, acts of God, or catastrophes, buyer's fault or negligence, improper storage or installation and improper maintenance.

Replacement costs and shipping charges for Products found not to be under warranty as specified above shall be paid in full by the Buyer before new/refurbished Products are shipped.

Notwithstanding the above, if the Products include main parts or sub-assemblies purchased by GrainPro® from other vendors ("Additional Equipment"), then the period and terms of warranty for Additional Equipment are limited to the period and terms offered by the vendors of such equipment.

The Buyer agrees that the warranty liabilities of GrainPro® shall be and are limited to the express foregoing terms: THE EXPRESS WARRANTIES AND OBLIGATIONS SET FORTH ABOVE, ARE AND SHALL BE IN LIEU OF ALL OTHER WARRANTIES AND OBLIGATIONS OF GRAINPRO®, and EXPRESSED OR IMPLIED. EXCEPT TO THE EXTENT HEREIN PROVIDED, GRAINPRO® DOES NOT MAKE AND SHALL NOT BE DEEMED TO MAKE ANY WARRANTY WHATSOEVER, TO ANY END USER OR TO ANY OTHER PERSON OR PARTY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR USE OR PURPOSE. GRAINPRO® SHALL NOT BE LIABLE FOR ANY LOSS OF USE, SALES OR PROFIT OR FOR ANY INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES CAUSED BY OR SUFFERED AS A RESULT OF THE SALE OR USE OF THE PRODUCTS.

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