Oxor® III
Oxygen Analyzer
Operation & Maintenance

Instruction 0019-9337

Rev. 2 - May 2010
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Manufacturer’s name: Bacharach, Inc.
Manufacturer’s address: 621 Hunt Valley Circle
New Kensington, PA 15068
Product name: Oxor™ III
conforms to the following specifications:
European Directive 89/336/EEC
EN50082-1: 1997 (Electrostatic Discharge)
EN50082-1: 1997 (Immunity)
EN55022; Group 1, Class B (Emission)

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A  Instruction 0019-9337
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1.0 INTRODUCTION

The Oxor® III is a portable analyzer designed to detect and display concentrations of Oxygen (O₂) gas between 0 and 20.9%. The analyzer is capable of testing for O₂ in both ambient room air, and in the flue-gas stream of fossil-fuel fired furnaces and boilers (with optional probe assembly).

Ordering Information:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0019-8112</td>
<td>Oxor III includes 4 ‘AA’ batteries, probe &amp; hose assembly with integral filter, and a hard carrying case.</td>
</tr>
<tr>
<td>0019-8113</td>
<td>Oxor III includes 4 ‘AA’ batteries, probe &amp; hose assembly with integral filter, hard carrying case, plus an IrDA printer.</td>
</tr>
</tbody>
</table>

The analyzer detects and displays the presence of O₂ by first drawing in a gas sample from the area being tested by the analyzer’s built-in motorized pump. The gas sample is next directed into a sensor chamber where the sample is analyzed for the presence of O₂.

A permanent record of the detected O₂ level, along with the current time and date, can be made by using the optional wireless IrDA printer.

A backlight enables the operator to read the display in dimly-lit areas. A power-saver feature causes the backlight to automatically turn OFF after 10 minutes, and causes the analyzer to shut OFF after 20 minutes of inactivity.
2.0 TECHNICAL CHARACTERISTICS

O₂ Display Range ....................... 0–20.9%
O₂ Accuracy ............................... +0.4 / -0.8% O₂
O₂ Resolution .............................. 0.1%
O₂ Response Time ...................... 90% of final value within 30 sec.
Ambient Temperature Display Range .. 0 to 100°C (32 to 212°F)
Ambient Temperature Accuracy ... ±3 °C between 0 and 40°C (32 to 104°F)
Ambient Temperature Resolution... 0.1°C (0.1°F)
Battery Requirement .................... Four disposable ‘AA’ Alkaline batteries
Operating Time .......................... Up to 18 hours continuous (pump running and backlight off)
Warm Up Time ........................... 60 seconds
Display ...................................... 4 digit by 2 line, 7-segment Liquid Crystal Display
Front Panel Controls .................. Six push button switches
(rer to Section 3.3)
Operating Temperature Range .. 0 to 40°C (32 to 104°F)
Humidity ..................................... 15 to 90% RH (non-condensing)
Printer Port .............................. IrDA or HP protocol
Weight ........................................ 16 oz with batteries
Size.......................................... 7.5"H x 3.1"W x 2.1"D (190x79x53 mm)
3.0 PREPARING THE ANALYZER FOR OPERATION

To prepare a new analyzer for operation, you must install four ‘AA’ Alkaline batteries, install the probe (if needed), and set the correct time and date as described in the following paragraphs.

For your convenience, and to ensure that the analyzer will provide reliable O₂ readings, the O₂ sensor was installed and the analyzer calibrated on a known concentration of O₂ at the factory.

3.1 Battery Installation

Install fresh batteries as described below. Check the analyzer for sufficient charge prior to each use. Replace the batteries if the low-battery symbol appears in the lower right corner of the LCD. To install batteries:

1. Remove battery cover from back of unit (see Figure 3-1).

2. If old batteries are installed, remove and properly dispose of the batteries.

3. Observing the polarity markings inside the battery compartment, install four ‘AA’ Alkaline batteries.

4. Replace battery cover.

Figure 3-1. Battery Installation
3.2 Probe Installation

To install the probe, simply slide its hose over the GAS inlet of the analyzer (see Figure 3-2).

![Figure 3-2. Probe Connection](image-url)
3.3 Front Panel Pushbuttons

Note that a push button may perform several functions, depending on what screen is being displayed at the time.

**I/O**
- Turns analyzer ON/OFF. There is a 60 second warm-up and a 5 second turn-off-delay period.
- Places the analyzer into either its Setup or Calibration Mode when used in conjunction with the **ENTER** or **HOLD** button.

**xon**
- Causes the displayed value to increase or change while in the Calibration or Setup Mode.

**xon**
- Causes the displayed value to decrease or change while in the Calibration or Setup Mode.

**ENTER**
- Starts a test – pump ON.
- Sets up the analyzer to be placed into its Calibration Mode when held down with the analyzer OFF. (Used in conjunction with the **I/O** button.)
- Stores the displayed value and automatically steps to the next screen when pressed during calibration or setup.
- Displays the O₂ screen when held down for 2 seconds while in the Calibration Mode.
- Aborts turn-off and keeps the analyzer turned ON when pressed during either the 5 second turn-off-delay period.

**HOLD**
- Freezes the display and stops the pump during a test.
- Starts a printout when pressed *twice* with the pump running, or when pressed *once* with the pump OFF.
- Sets up the analyzer to be placed into its Setup Mode when held down with the analyzer OFF. (Used in conjunction with the **I/O** button.)

**LIGHT**
Toggles the backlight ON and OFF.
3.4 Setup Mode

The analyzer is preset at the factory for the parameters shown below, but can be changed as described in their associated sections.

<table>
<thead>
<tr>
<th>Function</th>
<th>Parameter</th>
<th>To Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Unit</td>
<td>°F</td>
<td>Section 3.4.2</td>
</tr>
<tr>
<td>Time</td>
<td>Not Set</td>
<td>Section 3.4.3</td>
</tr>
<tr>
<td>Date</td>
<td>Not Set</td>
<td>Section 3.4.4</td>
</tr>
<tr>
<td>Year</td>
<td>Not Set</td>
<td>Section 3.4.5</td>
</tr>
<tr>
<td>Printer</td>
<td>IrDA</td>
<td>Section 3.4.6</td>
</tr>
</tbody>
</table>

3.4.1 Entering Setup

1. With the analyzer turned OFF, press and hold down the HOLD button.

2. Press and release the I/O button.

3. Release the HOLD button.

4. The analyzer is now in its Setup Mode. Refer to Sections 3.4.2 thru 3.4.6 for information on how to set the analyzer's various parameters.

3.4.2 Temperature Units Setup

The Temperature Units Setup Screen is labeled “Unit”.

1. Enter the Setup Mode per Section 3.4.1. If necessary, repeatedly press ENTER until the Temperature Units Setup Screen is displayed.
2. Press the  or  button until the desired temperature unit (°F or °C) is displayed.

3. Press ENTER to move to the next Setup Screen, or I/O to exit setup.

### 3.4.3 Time Setup

There are two Time Setup Screens, one for hours and the other for minutes. Two bars appear above the segments being changed. The clock is in a 24 hour format, but will appear as AM/PM on the printout.

1. Enter the Setup Mode per Section 3.4.1. If necessary, repeatedly press ENTER until the first Time Setup Screen is displayed—the one with two bars over the hour digits.

2. Press the  or  button until the correct hour value is displayed.

3. Press ENTER to move the selection bars over the minute digits.

4. Press the  or  button until the correct minute value is displayed.

5. Press ENTER to move to the next Setup Screen, or I/O to exit setup.

### 3.4.4 Date Setup

There are two Date Setup Screens, each labeled “DATE”. The first screen sets the month while the second screen sets the day.

1. Enter the Setup Mode per Section 3.4.1. If necessary, repeatedly press ENTER until the first Time Setup Screen is displayed—the one with two bars over the hour digits.

2. Press the  or  button until the correct hour value is displayed.

3. Press ENTER to move the selection bars over the minute digits.

4. Press the  or  button until the correct minute value is displayed.

5. Press ENTER to move to the next Setup Screen, or I/O to exit setup.
1. Enter the Setup Mode per Section 3.4.1. If necessary, repeatedly press ENTER until the first Date Setup Screen is displayed.

2. Press the $\uparrow$ or $\downarrow$ button until the correct month is displayed.

3. Press ENTER to switch to the second Date Setup Screen.

4. Press the $\uparrow$ or $\downarrow$ key until the correct day is displayed.

5. Press ENTER to move to the next Setup Screen, or I/O to exit setup.

### 3.4.5 Year Setup

The Year Setup Screen is labeled “yEAr”.

1. Enter the Setup Mode per Section 3.4.1. If necessary, repeatedly press ENTER until the Year Setup Screen is displayed.

2. Press the $\uparrow$ or $\downarrow$ button until the correct year is displayed.

3. Press ENTER to move to the next Setup Screen, or I/O to exit setup.

### 3.4.6 Selecting Printer Protocol

The Printer Setup Screen is labeled “Prnt”. The analyzer can be set up to send data to a wireless printer using either HP or IrDA protocol.

1. Enter the Setup Mode per Section 3.4.1. If necessary, repeatedly press ENTER until the Printer Setup Screen is displayed.

2. Press the $\uparrow$ or $\downarrow$ button to select the desired protocol.

3. Press ENTER to move to the next Setup Screen, or I/O to exit setup.
3.4.7 Exiting the Setup Screen

Press the I/O button at any time to exit the Setup Mode and turn the analyzer OFF. Note that the last displayed parameter is automatically saved in memory.

4.0 OPERATION

- Power the analyzer ON
- Wait for the unit to warm up
- Take a gas sample

4.1 Taking a Gas Sample

Turn ON the analyzer by pressing the I/O button. Observe that when power is first applied, the software revision level is first displayed followed by a screen that counts down the warm-up period. The warm-up period is 60 seconds.

Following warm-up, the O₂ screen appears. This screen directly shows O₂ levels in the range of 0-20.9% and ambient temperatures in the range of 0-100° C (32 to 212° F). If the probe is being used, insert the probe tip into the area to be sampled.

Note: If a sensor error was detected during warm-up, the O₂ Sensor Error Screen will be displayed. Refer to Section 4.4.

Tip: An O₂ error will occur when the oxygen sensor’s output drops to between 80 and 90. Consider replacing the oxygen sensor when its output level drops below 100.
4.2 Ending a Test

After taking a gas sample, remove the probe and take the analyzer to an area containing fresh air. Allow the pump to run until the O₂ reading is 20.9% O₂.

4.3 Turning OFF the Analyzer

Turn OFF the analyzer by pressing the I/O button. The analyzer will count down from 5 before turning OFF. Pressing ENTER, however, will abort the count down and keep the analyzer ON.

4.4 O₂ Sensor Error Screen

An O₂ sensor error is displayed if the analyzer determines during the warm-up cycle that the oxygen sensor's output is too low for it to be usable. However, in the extreme condition when the O₂ sensor has no output, a sensor error will not occur. Instead, the O₂ reading will be 0.0, as displayed in the O₂ Screen.
4.5 Using the Backlight

The LCD can be read in dimly-lit areas by pressing the **LIGHT** button.

The backlight automatically turns OFF after 10 minutes of keyboard inactivity, but can be turned OFF at any time by again pressing the **LIGHT** button.

4.6 Saving Test Data in Memory

Up to 10 individual sets of test data can be saved in memory as follows:

**Note:** When memory is full, the next reading saved will overwrite the oldest reading.

1. If the analyzer is in its Run Mode, press the **HOLD** button twice to enter the Print/Memory Menu Screens. If the analyzer is already in its Hold Mode, press the **HOLD** button only once. The first menu item displayed is the Print Screen.

2. Press the **Save** button once to display the Save Screen. The number shown in this screen represents the memory location (1 thru 10) to which the current test data will be saved.

3. Press **ENTER** to save the test data and return to the Hold Mode, or press **HOLD** to return to the Hold Mode without saving.
4.7 Opening and Viewing Saved Test Data

Perform the following to open and view saved test data:

**Note:** If no test data has been saved, the option to open the memory for viewing will not be available.

1. If the analyzer is in its Run Mode, press the **HOLD** button twice to enter the Print/Memory Menu Screens. If the analyzer is already in its Hold Mode, press the **HOLD** button only once. The first menu item displayed is the Print Screen.

2. Press the or button until the Open Screen is displayed, and then press **ENTER** to open the memory locations for viewing. The number shown in the second screen represents the most recent memory location where data was stored.

3. Press the or button to scroll to the desired memory location, and then press **ENTER** to recall the stored data and return to the Hold Mode. While in the Hold Mode, the recalled data can be viewed or printed per Section 4.8.

4.8 Printing Test Data

**Tip:** To avoid printing errors, it is important to select the correct protocol per Section 3.4.6 before saving data.

Turn ON the printer. Refer to the printer’s instruction manual for detailed operation and maintenance information.

If not already done, set the printer parameters as follows:

- Data: 8 bits
- Parity: None
- Baud: 9600
- Handshaking: X-on/X-off
Align the printer with the top of the analyzer as shown in Figure 4-1.

**Figure 4-1. Printer Alignment & Sample Printout**

**Print Current Test Data**

1. With the analyzer in its Run Mode, press the **HOLD** button twice to display the Print Screen.

2. Press **ENTER** to start printing.
Print All Test Data

1. With the analyzer in its Run Mode, press the HOLD button twice to display the Print Screen. Then press the button to display the Print All Screen.

2. Press ENTER to start printing.

4.9 Clearing Saved Test Data

Clear all saved test data as follows:

Note: If no test data has been saved, the option to clear memory will not be available.

1. With the analyzer in its Run Mode, press the HOLD button twice to display the Print Screen.

2. Press the or button to scroll to the Clear Screen, and then press ENTER to display the Clear All Screen.

3. Press ENTER again to clear memory and return to the Hold Mode, or press HOLD to return to the Hold Mode without clearing memory.

4.10 Resetting the Microprocessor

If the analyzer 'locks up' and cannot be turned OFF, reset the microprocessor by removing one of the batteries for 5 seconds.
5.0 CALIBRATION & MAINTENANCE

Important: Fresh batteries should be installed, and the unit allowed to stabilize at room temperature for at least two hours before proceeding with calibration. To maintain accuracy as listed in the Technical Characteristics Section of this manual, the standards used must be at least 4 times as accurate as the stated accuracy of the Oxor III.

5.1 Entering the Calibration Mode and Testing the Display Segments

1. With the analyzer turned OFF, place the unit in fresh, ambient air; then press and hold down the ENTER button.

2. Press the I/O button and release it. Observe that all LCD segments are turned ON.

3. Release the ENTER button. Observe the unit’s model number and software version are displayed. The word “CAL” is then displayed while the unit counts down from 60 seconds.

At the end of the count-down period, the first calibration screen is automatically displayed.

Note: During calibration, the buttons are used to increase or decrease a displayed calibration value. ENTER is used to store the new value and move to the next screen. Exit the Calibration Mode by holding down the ENTER button for 2 seconds.
5.2 Ambient Temperature Calibration

Material Required: Calibrated Thermometer

Procedure:

1. Enter the Calibrate Mode as described in Section 5.1. Observe that “AMBIENT” is displayed at the top of the display; if not, repeatedly press ENTER until it appears.

2. Use the buttons to adjust the displayed value to match the reading of a calibrated thermometer.

3. Press ENTER to store the displayed value and move to the next calibration screen, or hold down ENTER for 2 seconds to store the displayed value and display the O₂ screen, or press the I/O button to exit the Calibration Mode and turn OFF the analyzer without saving the changes.

5.3 O₂ Sensor Zero

Material Required: • Cylinder of 100% Nitrogen (P/N 9550-0049)
• Calibration Kit, (P/N 0024-7059)

Procedure:

1. With the analyzer sampling fresh air, enter the Calibration Mode as described in Section 5.1. Then repeatedly press the ENTER button until “O₂” appears in the lower left side of the display.

2. Allow the pump to run and sample fresh air for at least 1 minute.

3. Use the buttons to set the displayed value to 20.9%.
4. Set up the Calibration Kit with 100% N₂, as described in the instructions supplied with the kit.

5. Connect the tubing of the Calibration Kit to the GAS inlet of the analyzer; then adjust the regulator for approximately 2 SCFH of excess flow (see Figure 5.1).

6. After the analyzer has stabilized (2 to 3 minutes), use the buttons to set the displayed value to 0.0%.

7. Disconnect tubing from analyzer and turn off gas flow.

8. Allow the analyzer's pump to run until the O₂ reading returns to 20.9. If necessary, use the buttons to readjust the reading to 20.9. Repeat steps 3 through 7 to verify the zero adjustment.

9. Press ENTER to store the new calibration values and move to the next calibration screen; Or hold down ENTER for 2 seconds to store the new calibration values and enter the Run Mode; Or press the I/O button to exit the Calibration Mode and turn off the analyzer without saving the changes.

*Contained in Calibration Kit

---

**Figure 5-1. Calibration Kit Hookup**
5.4 O₂ Sensor Replacement

**Material Required:**
- O₂ Sensor, P/N (0024-8106)
- #1 Phillips Screwdriver

**Procedure:**

1. Disassemble the analyzer as follows:
   a. Remove the battery cover and the batteries, uncovering one of the cover hold-down screws.
   b. Remove and set aside all four cover hold-down screws.
   c. With the analyzer on its back, remove the front cover, laying it face down to the left of the body.
   d. Carefully remove the circuit board, slipping off the battery connector on top, and then laying the circuit board face down in the top cover.

2. Slip off the oxygen sensor's electrical connector from the circuit board. Push down and twist counterclockwise. Then pull the oxygen sensor out of its socket (see Figure 5-2).

   **Tip:** To obtain a better grip on the oxygen sensor, it may be necessary to remove the screw that secures the sensor socket to the case.

3. Using the old sensor as a guide, remove the paper backing from the new sensor gasket contained in the replacement kit and adhere it to the new sensor.

4. Properly dispose of the old oxygen sensor (see instruction sheet that comes with the new sensor).

5. Mount the new oxygen sensor in its socket. If the sensor socket was removed in Step 2, re-attach it to the case.

6. Plug the oxygen sensor's electric connector into the printed circuit board (observe polarity; see Figure 5-2). Reassemble the analyzer.

   **Note:** The sensor may take several hours to stabilize after being connected to the printed circuit board.
5.5 Pump Assembly Replacement

**Material Required:**
- Pump, P/N (0024-3048)
- #1 Phillips Screwdriver

**Procedure:**

1. Disassemble the analyzer as follows:
   a. Remove the battery cover and the batteries, uncovering one of the cover hold-down screws.
   b. Remove and set aside all four cover hold-down screws.
   c. With the analyzer on its back, remove the front cover, laying it face down to the left of the body.
   d. Carefully remove the circuit board, slipping off the battery connector on top, and then laying the circuit board face down in the top cover (see Figure 5-2).

2. Slip off the pump motor’s electrical connector from the circuit board.

3. Unscrew the pump’s hold down clamp and remove it from the pump (see Figure 5-2). Make note of how the pump wiring is routed.

4. Make note of how the tubing connects to the pump; then carefully remove tubing from pump.

5. Remove the old pump and discard.

6. Install the new pump and reinstall the tubing, taking care not to pinch or crimp the tubing. Also be sure that the pump wiring is routed as was noted in Step 3.

7. Reassemble the analyzer.
6.0 PARTS & SERVICE

*Figure 5-2.*

- **Back Case Component Locations**
  - CO SENSOR GASKET
  - PUMP
  - HOLD DOWN CLAMP

- **PCB Locations**
  - TO BATTERY
  - TO O₂ SENSOR
  - TO PUMP
6.1 Replacement Parts

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen Sensor With Gasket</td>
<td>0024-8106</td>
</tr>
<tr>
<td>Oxygen Sensor Gasket</td>
<td>0024-1111</td>
</tr>
<tr>
<td>Pump Assembly</td>
<td>0024-3048</td>
</tr>
<tr>
<td>Battery Door</td>
<td>0019-0525</td>
</tr>
<tr>
<td>Basic Probe/Hose Assembly</td>
<td>0019-3086</td>
</tr>
</tbody>
</table>

6.2 Accessories

STANDARD ACCESSORIES:
- Battery, 'AA' Alkaline (Qty 4) .................................................. 0204-0004
- Instruction Manual .................................................................. 0019-9337
- Hard Carrying Case.............................................................. 0024-0865

OPTIONAL ACCESSORIES:
- AC Adapter (Battery Eliminator) .............................................. 0024-1254
- Calibration Kit ...................................................................... 0024-7059
- Gas Cylinder, 100% N₂ ......................................................... 9550-0492
- Printer, Wireless IrDA ......................................................... 0024-1400

Printer Paper:
- 1 Roll ............................................................................... 0006-8733
- 5 Roll Pack .......................................................................... 0024-1310

Protective Rubber Boot w/Magnet .................................................. 0024-1127
6.3 Service Centers

Replacement parts and service can be obtained by contacting one of the following Bacharach Service Centers:

**United States**
Bacharach, Inc.
621 Hunt Valley Circle
New Kensington, PA 15068
Phone: 724-334-5051
Fax: 724-334-5723
Email: help@mybacharach.com

**Canada**
Bacharach of Canada, Inc.
20 Amber St. Unit# 7
Markham, Ontario L3R SP4
Canada
Phone: 905-470-8985
Fax: 905-470-8963
Email: bachcan@idirect.com
Oxor® III

Notes: