



## **OZONE SOURCE**

### **Model OG-3**

### **User Manual**

#### **Overview**

The OG-3 Ozone Source may be utilized for calibration verification and approximate field calibration of Eco Sensors instruments. It utilizes a precision UV micro-lamp that emits 0.1 ppm or 1.0 ppm of ozone (specify when ordering). The ozone output level is marked on the OG-3. The OG-3 is useful for checking instruments in the field to verify their response to ozone. The OG-3 may also be used for approximate field calibration of instruments. However, a field calibration with the OG-3 does not substitute for a laboratory calibration and is not NIST-traceable. If a NIST-traceable laboratory calibration is desired or required for your Eco Sensors instrument, please contact us at (800) 472-6626 or e-mail at sales@ecosensors.com.

#### **Operation**

Place the OG-3 and ozone sensing instrument on a flat surface in a room free of air currents and extraneous gases and chemical vapors, including but not limited to VOCs (volatile organic compounds).

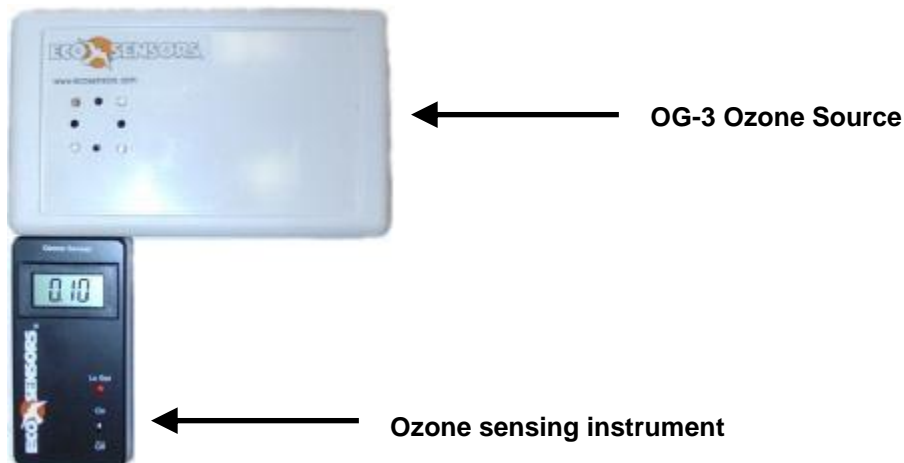
Connect the AC adapter to the OG-3. The fan will run and the blue light of the UV lamp is visible through the 10 mm hole on the side of the instrument. If the fan is not running, ensure the power source is 12 VDC with a minimum current capacity of 300 mA. If the fan is running but the lamp is not operating, contact your distributor or Eco Sensors for further assistance.

Allow both the OG-3 and ozone sensing instrument to warm up (unconnected and separated by at least 12 in) for at least 30 minutes.

Insert the sensor of the ozone sensing instrument into the 10 mm hole in the side of the OG-3 (See illustration below).

The ozone sensing instrument should respond within 1 minute and the reading will climb to a steady value. Typically, after 3 minutes, the ozone sensing instrument will stabilize and the instrument reading may be noted. Do not leave the ozone sensing instrument connected to the OG-3 for more than 4 minutes. The OG-3 should be disconnected from its power source when not in use to prolong the lamp life.

The UV lamp in the OG-3 should show stable and constant output for approximately 500 hours of use. Contact your distributor or Eco Sensors for a UV lamp replacement and/or recalibration.



## Service and Maintenance

There are no user serviceable parts in the OG-3. The fan and UV lamp should show stable and constant output for approximately 500 hours of use. If the ozone output or fan becomes variable the OG-3 may be reconditioned and recalibrated at the factory. Contact Eco Sensors at (800) 472-6626 or e-mail at sales@ecosensors.com for more information.

## Specifications

<b>Ozone source:</b>	UV lamp
<b>Output ozone concentration:</b>	0.1 ppm (standard) or 1.0 ppm (upon request)
<b>Accuracy:</b>	20%
<b>Warm-up time:</b>	30 min
<b>Calibration time:</b>	3 min
<b>Lifetime:</b>	500+ hours
<b>Temperature range:</b>	10 to 27 °C (50 to 80 °F)
<b>Size:</b>	36 mm X 95 mm X 160 mm (1.41" X 3.75" X 6.30")
<b>Weight:</b>	255 grams (9 ounces)
<b>Power requirement:</b>	12 VDC at 300 mA
<b>Warranty:</b>	1 year

## WARRANTY

This product is warranted against defects in materials and workmanship for one year following the date of purchase by the original owner. This warranty does not include damage to the product that results from misuse, accident, dropping, modifications or alterations, and it does not apply if the instructions in this manual are not followed, or if the unit is otherwise used outside its intended specifications.

If a defect develops during the warranty period, Eco Sensors, in its sole discretion, will repair the instrument or replace it with a new or reconditioned model of equivalent quality. In the event of replacement with a new or reconditioned instrument, the replacement unit will continue the warranty of the original unit.

If the product should become defective during the warranty period, please return it through your distributor, or call Eco Sensors at (800) 472-6626 or e-mail at sales@ecosensors.com to receive return instructions and a Return Materials Authorization (RMA) number.

Except as provided herein, Eco Sensors makes no warranties, express or implied, including warranties of merchantability and fitness for a particular purpose. Eco Sensors shall not be liable for loss of use of this instrument or other incidental or consequential damages, expenses or economic loss, or claims for such damage or economic loss.

RECORD YOUR SERIAL NUMBER HERE

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