

UV-100 UV Ozone Analyzer



The Eco Sensors model UV-100 ozone analyzer is for general purpose measurement of ozone in air. Its range is .01-900 ppm (v) with 2% accuracy, and it includes a built-in data logger. The UV-100 weighs only 2.1 kg (4.7 lb), it is powered by an AC adapter or 12 V external battery, and is equally versatile for the laboratory or for process monitoring. The outputs are digital display, 0-2.5 VDC and 4-20 mA. The instrument features LEDs to indicate calibration is due, the sample line filter should be replaced, and that the sampling area is above the danger limit of .1 ppm.

Specifications:

UV Source: 254 nm mercury lamp

Range: .01-900 ppm v/v in 3 ranges: 0-1.00 ppm, 0-10.0 ppm, 0-900.0 ppm

Outputs: Digital display. 0-2.5 V, 4-20 mA, data logging

Accuracy: 2%

Sampling time: 10 seconds

LED Indicators: On-off, Recalibrate, Change Filter, >.1 ppm at sample area

Size: 95 × 210 × 216 mm (3.75 × 8.25 × 8.50 in)

Weight: 2.1 kg (4.7 lb)

Power requirement: 12 VDC at 400 mA.

Warranty: One year

The Eco Sensors Ozone Monitor is designed to enable accurate measurements of indoor ozone over a wide dynamic range extending from a limit of detection of .01 ppm by volume (ppmv) to an upper limit of about 1,000 ppm based on the well established technique of absorption of ultraviolet light at 254 nm. The Ozone Monitor is light weight (4.7 lb., 2.1 kg.) and has a low power consumption (\approx 5 watt) relative to conventional instruments and is therefore well suited for applications such as:

- Industrial hygiene monitoring where ozone may be present in the workplace.
- Control of ozone generators and systems.
- Research and quality checking of ozone emitting equipment.
- Monitoring high ozone concentrations such as process off-gassing.

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