

# Ozone Analyzer Model 6030



## Overview

The Model 6030 Ozone Analyzer provides an accurate and convenient means of measuring low levels of ozone in ambient air.

Using the Beer-Lambert law, ozone is measured in a single photometric cell by detecting the absorption of ultraviolet (UV) radiation from ozone molecules at a wavelength of 254 nm.

Real-time comparison of the UV light intensity for the sample gas to the reference gas yields a precise concentration of ozone.

The single cell design reduces the complexity of the ozone measurement and automatically eliminates zero drift.

Advanced, easy to use, menu-driven software allows access to sample conditions and diagnostics and the strip chart feature allows the user to view a time series plot for ozone readings.

The 6030 Analyzer offers a bright color display, data logging capability and advanced communications via Ethernet, USB and RS-232/485

## Standard Features

- ▶ Ranges: 0-50 ppb to 0-10 ppm
- ▶ 8 second cycle time for fast response
- ▶ Large color TFT LCD display
- ▶ Various user interface options including touch screen, front panel keypad, external keyboard and mouse
- ▶ Menu driven software
- ▶ Ethernet, USB and RS-232/485 ports
- ▶ Front panel USB connections for peripheral devices and firmware updates
- ▶ Four independent analog outputs with flexible ranges
- ▶ 8 digital input/outputs (I/Os)
- ▶ Automatic temperature and pressure compensation
- ▶ Comprehensive internal data logging
- ▶ Modbus protocol

## Optional Features

- ▶ Internal Ozone Generator
- ▶ Zero/Span ports



## SPECIFICATIONS

*Specifications subject to change without notice*

<b>EPA Approved Ranges</b>	0-50 ppb, 0-500 ppb or 0-1 ppm
<b>Noise</b>	< 0.3 ppb
<b>Lower Detectable Limit</b>	< 0.4 ppb
<b>Zero Drift</b>	< 1.0 ppb per month
<b>Span Drift</b>	< 1% per month
<b>Cycle Time</b>	8 seconds (4 sec. each half-cycle)
<b>Precision</b>	< 0.5% of Reading
<b>Linearity</b>	< 1% of Full Scale
<b>Sample Flow Rate</b>	0.5 to 1 Liter per Minute (LPM)
<b>Operating Temperature</b>	5° to 45°C (with EPA Equivalency)
<b>Operating Humidity</b>	0 to 90% (Non-condensing)
<b>Power Requirements</b>	Universal Power Supply, 90-264 VAC, 100 VA, 50/60 Hz
<b>Voltage Output Ranges</b>	0.1V, 1V, 2V, 5V, 10V, user selectable
<b>Input/Output Ports</b>	Rear Panel: Ethernet, USB Device, USB Host (2), RS-232/485 (2)
<b>Physical Dimensions (H x W x D)</b>	5.25 in. x 17 in. x 22.5 in. (133 x 432 x 571.5 mm)
<b>Weight</b>	23 lbs. (10.3 kg)
<b>Certification</b>	US EPA: EQOA-0415-222



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