

# Model 2030 Portable Ozone Primary Standard



## Description

The Model 2030 Portable Ozone Primary Standard 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 2030 Portable Ozone Transfer 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 0-2 ppm
- ▶ Vivid Color Touch Screen 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
- ▶ Automatic temperature and pressure compensation
- ▶ Comprehensive internal data logging
- ▶ Portable side handles

## Specifications

*Specifications subject to change without notice*

Ranges	0-100, 0-200, 0-500 ppb or 0-1, 0-2, ppm
Zero Noise	0.6 ppb RMS
Lower Detectable	1 ppb
Limit Zero Drift Span	< 1.0 ppb/24 hr, < 2.0 ppb/7 days
Drift Response Time	< 1% per month
Precision	20 seconds, 10 seconds lag time
Linearity	1 ppb
Sample Flow Rate	+/- 1% Full Scale
Operating	1 Liter/Minute
Temperature Power	5° to 45° C
Requirements	Universal Power Supply, 98-132 VAC 196-264 VAC 50/60 Hz
Analog Outputs	0.1V, 1V, 2V, 5V, 10V
RS-232/RS-485 Port	Standard DB-9 Connector
Physical Dimensions	6.2 in. (15.6 cm) H x 14.3 in. (36.4 cm) x 12.4 in. (31.6 cm) D
Average Weight	20 lbs. (9.1 kg)

## Precision Ozone Generator

Output Range	2 ppb - 1000 ppb @ 5 SLM
Accuracy	±1% of Set Point

## Accessories

High-Impact Transport Case  
Internal Zero Air Source

## Optional Features

- ▶ Internal Ozone Generator
- ▶ High-Impact Transport Case
- ▶ Tilt-up feet
- ▶ 12 Independent timers for sequences
- ▶ Nested Sequences