

# Ozone Primary Standard Model 6030PS



## Overview

The Model 6030 Ozone Primary Standard is NIST traceable and 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 Ozone Primary Standard 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
- ▶ Minimum output concentration 5 ppb
- ▶ 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*

EPA Approved Ranges	0-50 ppb, 0-500 ppb or 0-1 ppm < Noise
Noise	0.2 ppb
Lower Detectable Limit	< 0.4 ppb
Zero Drift	< 1.0 ppb per month
Span Drift	< 1% per month
Cycle Time	8 seconds (4 sec. each half-cycle)
Precision	< 0.5% of Reading
Linearity	< 1% of Full Scale
Sample Flow Rate	0.5 to 1 Liter per Minute (LPM)
Operating Temperature	5° to 45°C (with EPA Equivalency)
Operating Humidity	0 to 90% (Non-condensing)
Power Requirements	Universal Power Supply, 90-264 VAC, 100 VA, 50/60 Hz
Voltage Output Ranges	0.1V, 1V, 2V, 5V, 10V, user selectable
Input/Output Ports	Rear Panel: Ethernet, USB Device, USB Host (2), RS-232/485 (2)
Physical Dimensions (H x W x D)	5.25 in. x 17 in. x 22.5 in. (133 x 432 x 571.5 mm)
Weight	23 lbs. (10.3 kg)