

# Ozone Primary Standard Model 6030TS



## Overview

The Model 6030 Ozone Transfer 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)  |