

environmental

ambient pollution analyzers and calibration systems

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 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)

< 0.5% of Reading Precision 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

0.1V, 1V, 2V, 5V, 10V, user

Voltage Output Ranges

Rear Panel: Ethernet, USB Device, USB Host (2), Input/Output Ports

RS-232/485 (2)

23 lbs. (10.3 kg)

5.25 in. x 17 in. x 22.5 in. **Physical Dimensions** $(H \times W \times D)$ (133 x 432 x 571.5 mm) Weight

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