Sabio environmental *ambient pollution analyzers and calibration systems*

Model 6030 Ozone Analyzer

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 (User selectable)
- Measurement units: ppm, 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 TCP/IP, USB and RS-232/485 ports
- Front panel USB connections for peripheral devices and firmware updates
- Four independent analog inputs / outputs VCD with flexible ranges
- 8 standard digital input/outputs (I/Os)
- Automatic temperature and pressure compensation
- Comprehensive internal data logging
- Modbus protocol

Optional Features

- Internal Ozone Generator
- Zero/Span ports
- 4 – 20 mA current outputs

SPECIFICATIONS

Specifications subject to change without notice

EPA Approved Ranges	0-50 ppb, 0-500 ppb or 0-1 ppm
Noise	< 0.3 ppb
Lower Detectable Limit	< 0.4 ppb
Zero Drift	< 1.0 ppb per 24 hours
Span Drift	< 1% of reading per month
Cycle Time	8 seconds (4 sec. each half-cycle)
Precision Linearity	< 0.5% 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 200 watts
Voltage Output Ranges	0.1V, 1V, 2V, 5V, 10V, 4-20 mA (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)
Certification	US EPA: EQOA-0415-222

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