Sabio environmental

ambient pollution analyzers and calibration systems

Model 2030 Portable Ozone Transfer Standard

Description

The Model 2030 Portable Ozone Transfer 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
- 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
- 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 Limit	1 ppb
Zero Drift	< 1.0 ppb/24 hr, < 2.0 ppb/7 days
Span Drift	< 1% per month
Response Time	20 seconds, 10 seconds lag time
Precision	1 ppb
Linearity	+/- 1% Full Scale
Sample Flow Rate	1 Liter/Minute
Operating Temperature	5° to 45° C
Power 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	0.05-1.5 PPM @ 5 SLM
Accuracy	±2% of Set Point or ± 3 ppb @ 5 SLM

Accessories

High-Impact Transport Case

Internal Zero Air Source

Optional Features

- Internal Ozone Generator
- High-Impact Transport Case
- Tilt-up feet

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