

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
- ▶ Vivid Color Touch Screen 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
- ▶ 12 Independent timers for sequences
- ▶ Nested Sequences