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Model IN-2000-L2LC Analyzer

LOW CONCENTRATION OZONE ANALYZER



The Model IN-2000-L2LC analyzer is based on state of the art UV absorption technology and is ideal for continuous measurement of very low concentrations of ozone in the gas phase. With its advanced electronic design combined with its unique temperature controlled UV lamp housing the Model IN-2000-L2LC delivers the most accurate and stable reading in its class that is traceable to NIST standards. The Model IN-2000-L2LC is typically used to ensure workplace safety in and around ozone installations in a wide range of very demanding industrial installations. The IN-2000-L2LC is typically installed around ozone generators, contact chambers, ozone destructs, ozone injection points and many other ozone installations to detect ozone leaks. Should the IN-2000-L2LC detect an ozone leak, with its simple yet advanced alarm system, it will interlock and shutdown automatically the ozone generator to ensure workplace safety.

Applications:

- Workplace Safety for OSHA compliance
- In the Ozone Generator Room
- Vent Gas or post ozone destruct
- In Water Treatment Plants
- In Food and Beverage Plants
- In Pharmaceutical High Purity Water Facilities
- In Semiconductor Processes
- In R&D applications

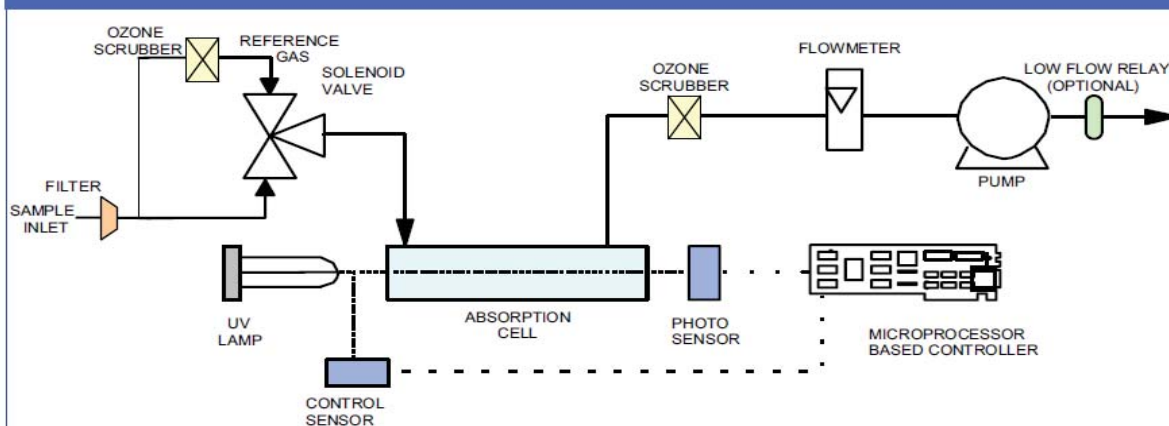
Features:

- UV Absorption Technique
- Microprocessor based
- Wide measurement range
- Reliable repeatable and accurate
- NIST Traceable
- User programmable alarms
- Analog and Digital interface
- No consumables

Specifications

**Model
IN-2000-L2LC
Analyzer**

Principle of Operation: The controller calculates the attenuation ratio of Ultra Violet light on the Photo sensor between a Ozone free reference gas and the sample gas . The Ozone concentration is directly related to the amount of UV light absorbed in the sample cell at a specific wavelength.



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|------------------------------|--|
| Sensor: | Model IN-2000-L2-LC Single Channel Ozone Analyzer |
| Measuring Principle: | UV Absorption with Automatic Zeroing |
| Measuring Range: | 0-1, 0-10, 0,100, 0-10,000 PPMv; custom ranges are also available |
| Resolution: | 0.001 ppm (range 0-1 or 0-10) 0.01 ppm (range 0-100) 0.1 ppm (range 0-1,000) 1 ppm (range 0-10,000) |
| Linearity: | Better than 99% Throughout Range |
| Calibration Standard: | Traceable to US NIST |
| Standard Alarms: | Two Field Programmable Alarms with Form C Relay Contacts and One Instrument Error Relay (SPDT, 5A 250 VAC resistive and optional DPDT) |
| Diagnostic Features: | Continuous Internal Diagnostics with Error Messages |
| Optional: | Pressure and Temperature Compensation Low Flow Relay RS-422 Isolated 4-20 mA Sample Conditioning System SC010R |

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|--|---|
| Analog Outputs: | 4-20 mA and 0-10 VDC standard |
| Supply Voltage: | 100-240 VAC 50/60 Hz |
| Digital Interface: | RS-232 Interface; Bidirectional 1200 to 19000 Baud |
| Zero Drift: | None, Digitally Autozero |
| Sample Flow Rate: | 1.0 LPM Built-in Pump and Throttling Valve |
| Connections: | 1/4" Swage fittings; other options available |
| Configurations: | NEMA 4X IP65 Wall Mount 19" Rack Mount/Benchtop |
| Relay Contacts: | Standard: 3 SPDT; rated 5A/250VAC |
| Fuse and Draw: | 70 VA power consumption Fused at 0.75 A (Bench); 1A (NEMA) |
| Readout: | 2x20 Character, Alpha-Numeric, Backlit LCD |
| Environmental Operating Conditions: | 5 - 45 °C; 0-95% RH non-condensing |
| Dimensions: | Wall Mount/NEMA 4X : 15.31" x 13.31" x 8.27" (388 x 338 x 210 mm) Rack Mount/Benchtop: 5.25" x 19" x 18.18" (133.3 x 482.6 x 461.8 mm) |

*Specifications subject to change without notice

| Ozone Equipment for every application | | | | | | |
|---------------------------------------|--|-----------------------|---------------------|-----------------------|-----------------|---------------|
| | Generator Output or Off Gas | Safety/Leak Detection | Tool Leak Detection | Stack & Environmental | Dissolved Ozone | Spot Checking |
| Model H1 | • | | | | | |
| Model dFFOZ | | | | | • | |
| Model gFFOZ | • | | | | | |
| Model Mini-HiCon | • | | | | | |
| Model IN-2000 | | • | • | • | | |
| Model AET-055-PA | | • | | • | | • |
| Model OG series | Ozone Generators for a wide range of applications - water cooled | | | | | |
| Model AC series | Ozone Generators for a wide range of applications - air cooled | | | | | |