Model Mini-HiCon™
Ozone Analyzer

Ideal for monitoring ozone generator output

Applications
• Ozone generator output
• Semiconductor tools
• Ultrapure water systems
• Pharmaceutical industry
• Water treatment applications
• Other industrial processes

Features
• Range of 0 to 400 g/m³
• Pressure and temperature compensated
• Remote AutoZero
• High accuracy UV Absorption method
• Dual optical-path sample sensing
• Minimal maintenance - no moving parts
• Semiconductor-grade wetted materials
• Compact enclosure
• Integrated sensor and microprocessor-based controller
• Panel mount

Description
The Model Mini-HiCon is an innovative Ozone Analyzer that combines a state-of-the-art gas-phase ozone sensor with an advanced electronics control module in a small, rugged enclosure. It is ideal for measuring ozone process gas in a wide variety of applications with high (up to 400 g/m³) ozone concentrations.

The Model Mini-HiCon Analyzer incorporates IN USA's innovative dual optical-path sample sensing technology (patent-pending) to provide unparalleled performance and virtually eliminate the need for a reference gas measurement.

The Model Mini-HiCon Analyzer provides powerful microprocessor-based control, display, and output capabilities. It includes an alphanumeric, backlit LCD; 0-10 VDC and 4-20 mA analog outputs (opto-isolated); bi-directional RS232 digital communications; remote AutoZero capability; and automatic compensation for sample pressure and temperature.
Specifications

**ANALYZER:** Model Mini-HiCon™; integrated sensor and controller; microprocessor-based

- **Application:** Ozone in gases; continuous
- **Measuring Principle:** UV Absorption; dual optical-path sample sensing*
- **Pressure & Temperature:** Automatic compensation for sample pressure and temperature
- **UV Light Source:** Low pressure mercury vapor lamp
- **Units of Measure:** g/m³, g/Nm³, % w/w
  - **Range:** 0 to 400 g/m³, 0 to 26% w/w (at NTP)
  - **Repeatability:** 0.5 g/m³ or 1% of reading, including zero drift; (higher precision available)
  - **Resolution:** 0.1 g/m³ or 0.01% w/w
  - **Cycle Time:** Continuous measurement; 0.5 sec or 2 Hz sampling rate

- **Sample Flow:** 0.2 to 1 SLPM
- **Sample Ports:** 1/4” Swagelok™ (others available)
- **Display:** 20 character, alphanumeric, backlit LCD
- **Analog Outputs:** 4 to 20 mA and 0 to 10 VDC, opto-isolated
- **Digital I/O:** RS-232-C, bi-directional
- **Diagnostics:** Internal diagnostics; instrument error relay
- **AutoZero:** Remote AutoZero Standard
- **Power:** 90 to 240 VAC 50/60 Hz
- **Dimensions:** 5.6” W x 2.8” H x 9.5” D
  - (143 x 71 x 241 mm)
- **Maintenance:** UV lamp replacement every 24 months. No other scheduled maintenance.

* Patent Pending
Specifications subject to change without notice.

Typical Installation (Side-Stream)

**Ozone instrumentation for every application**

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