High Concentration Process Ozone Analyzers

H1 Series

Applications:
- Ozone generator output
- Ultrapure water systems
- Pharmaceutical industry
- Water treatment applications
- Other industrial processes

Features:
- Microprocessor controlled
- High accuracy UV Absorption method
- Ranges up to 400 g/m³
- Automatic sample pressure and sample temperature compensation
- Molecular weight compensation
- Continuous sample flow
- No solenoid valves, no external reference
- Analog and Digital I/O built-in
- User programmable alarm relays
- AutoZero built-in
- Continuous internal diagnostics
- No regular maintenance required

Ideal for Measuring Ozone Generator Output
**Specifications**

**H1 Series**

**Principle of Operation**

- **Measuring Principle**: Absolute determination by UV absorption through innovative optical system
- **Cycle Time**: Continuous measurement, uninterrupted sample flow - no solenoid valves
- **Upper Measurement Ranges**: H1-LR: 50 G/M³ (4%) - H1-S: 125 G/M³ (10%) - H1-X: 200 G/M³ (15%) - H1-UH: 400 G/M³ (28%)
- **Precision/Repeatability**: 0.1 G/M³ or 1% of reading (whichever is greater)
- **Resolution**: 0.1 G/M³ (0.01% W/W) in the range from 0.1-125 G/M³
- **Linearity**: Better than 99% throughout range
- **Zero Drift**: Less than 0.1 G/M³ per month, non cumulative
- **Calibrated Standard**: Per the International Ozone Association (IOA) K1 method to 1% repeatability
- **Ozone Concentration Units**: G/M³, G/NM³, % weight, % volume (field selectable)
- **Sample Pressure and Temperature Sensors**: Optional, automatic compensation for sample pressure, temperature and molecular weight. Normalizing parameters are field selectable
- **Standard Alarms**: 2 field programmable alarms with form C relay contacts (5 A 250 VAC res.)
- **Diagnostic Features**: Continuous internal diagnostics with error messaging & instrument error relay
- **Sample Flow Rate**: 0.5 l/min. (built-in flow meter) at 30 PSIG max. Higher pressures on request
- **Readout**: 2 line by 20 character alphanumeric vacuum fluorescent display
- **Analog Outputs**: Scalable 4-20 mA and 0-10 VDC standard. Others available on request
- **Digital Outputs**: RS232 bi-directional interface standard
- **Available Configurations**: NEMA 4x/IP65 non-metallic enclosure (wall mount); 19” rack; bench-top
- **Sample Inlet/Outlet Ports**: 1/8” or 1/4” compression fittings. Metric, VCR or other fittings on request
- **Supply Voltage**: 100-240 VAC 50/60 Hz
- **Dimensions (W x H x D)**: Bench:12.5” x 5.4” x 14.2” (318 x 137 x 361 mm) - Rack: 19”x 5.3” x 14.2” (483 x 133 x 361 mm) - Wall mount: 16.8”x 19.5”x 9.6” (425 x 495 x 244 mm)
- **Compliance**: CE

**Specifications subject to change without notice**

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**IN USA, INC. - 87 Crescent Road - Needham, MA 02494 USA - Toll Free (1)-800-798-4029**  
**Tel: (1)-781-444-2929   FAX: (1)-781-444-9229   Website: www.inusacorp.com**