



IN USA, Inc.
100 Morse Street • Norwood, MA 02062 • USA
Tel: 800-798-4029 • 781-444-2929 • Fax: 781-444-9229
www.inusacorp.com

H1 Series

High Concentration Process Ozone Analyzers



Ideal for Measuring Ozone Generator Output

Applications:

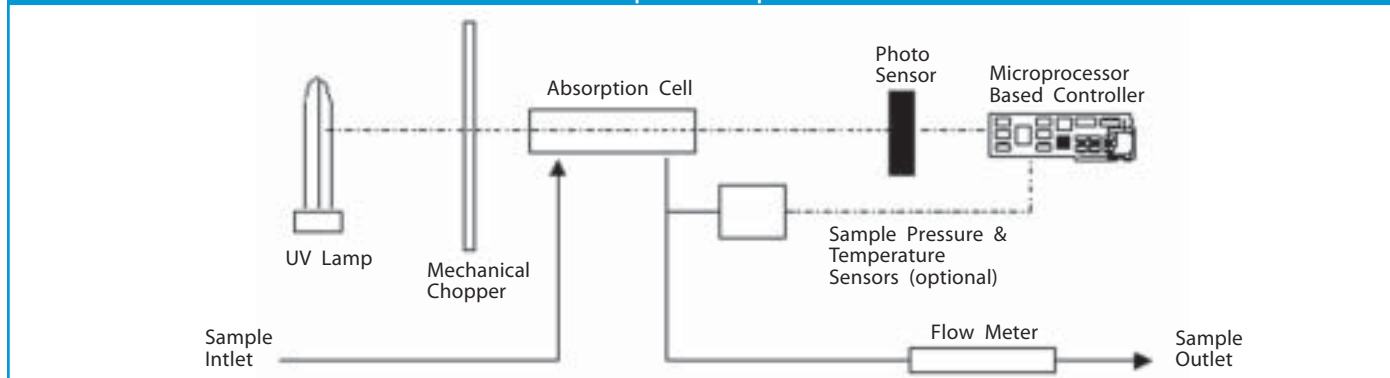
- Ozone generator output
- Ultrapure water systems
- Pharmaceutical industry
- Water treatment applications
- Other industrial processes

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

Specifications **H1 Series**

Principle of Operation



Specifications

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/M ³ (4%) - H1-S: 125 G/M ³ (10%) - H1-X: 200 G/M ³ (15%) - H1-UH: 400 G/M ³ (28%)
Precision/Repeatability	0.1 G/M ³ or 1% of reading (whichever is greater)
Resolution	0.1 G/M ³ (0.01% W/W) in the range from 0.1-125 G/M ³
Linearity	Better than 99% throughout range
Zero Drift	Less than 0.1 G/M ³ per month, non cumulative
Calibrated Standard	Per the International Ozone Association (IOA) K1 method to 1% repeatability
Ozone Concentration Units	G/M ³ , G/NM ³ , % 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

Ozone instrumentation for every application						
	Generator Output	Safety/Leak Detection	Tool Leak Detection	Stack & Environment	Dissolved Ozone	Spot Checking
Model dFFOZ-TR					•	
Model dFFOZ					•	
Model W1 Series					•	
Model gFFOZ	•					
Model Mini-HiCor	•					
Model H1 Series	•					
Model L2RM			•			
Model IN-2000		•	•	•		
Model AET-030						•



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