



IN USA • A Brand of TELEDYNE API
Tel: 800-798-4029 • 781-444-2929
www.inusacorp.com • api-sales@teledyne.com

Model MiniHiCon-HP

High Concentration Ozone Analyzer



The new **Model MiniHiCon-HP** High Concentration Ozone Analyzer is based on IN USA Inc.'s proprietary gas sensing technology configured in the most rugged enclosures making it ideal for use in demanding harsh industrial applications. The measurement is made based on state of the art and proven UV Light Absorption Technology.

The **MiniHiCon-HP** is ideal for measuring accurately and reliably High Concentrations ozone gas produced by any generator. When combined with IN USA's proprietary Sample Conditioning system Model SC-010-R the **MiniHiCon-HP** is suitable for measuring the off gas from any wet process. It can be used in line or side stream.

The **MiniHiCon-HP** analyzer incorporates IN USA's patented no moving parts and innovative dual-optical path sensing technology to provide unparalleled performance and reliability. With its built-in pressure and temperature sensors the ozone concentration measurement is compensated for the process pressure and temperature. The measurement is provided in weight % and g/Nm^3 units of measure.

At the heart of the **MiniHiCon-HP** is a state of the art Microprocessor configured with a 24 character LCD Alphanumeric Display, Isolated Analog Output, Bi-Directional Digital Interface, User Programmable high and low alarms, two DPDT (Double Pole Double Throw) Alarm Relays, Fail Safe Alarm Relay, Remote AutoZero capability and many other features making it very easy to integrate into any industrial application.

Applications:

- Ozone Generator Output
- Semiconductor Tools
- Water Treatment Applications
- Ultrapure Water
- Pilot Studies
- Research Projects

Industries:

- Semiconductor
- Wastewater Treatment
- Pharmaceutical
- Biotechnology
- Research Laboratories
- Other Industrial Processes

Features:

- UV Absorption Technique
- Dual Optical-Path Sample Sensing
- No Moving Parts for Minimal Maintenance
- Pressure and Temperature Compensation
- Built-in Solid State Automatic Zero
- Calibrated to recognized world standards

Specifications

**Model
MiniHiCon-HP**

Model MiniHiCon-HP

Application:	High and Medium Concentration Ozone Analyzer
Measuring Principle:	UV Light Absorption Technology
Sensing Technology:	No moving parts Patented Dual Optical Path Sample Sensing Technology
Pressure & Temperature:	Automatic compensation for sample pressure and temperature standard
Feed gas Molecular Weight Compensation:	User selectable air or oxygen
UV Light Source:	Low pressure mercury vapor lamp
Units of Measure:	g/m ³ , g/Nm ³ , % w/w
Range:	0 to 400, 300, 200, 100, 50, 25 g/Nm ³ 0 to 25, 15, 10, 4, 2 % w/w Other ranges available
Precision / Repeatability:	Larger of 0.05 g/Nm ³ or 1% of reading for 0-50 g/Nm ³ units including zero drift Larger of 0.4 g/Nm ³ or 1% of reading for 0-200 and 0-400 g/Nm ³ units including zero drift
Resolution:	0.1 g/m ³ ; 0.1 g/Nm ³ ; 0.01 % w/w
Cycle Time:	Continuous measurement; 2 Hz display update rate
Sample Flow:	0.25 to 15 SLPM
Sample Ports:	1/4" Swagelok™ (others available)
Display:	20 characters, alphanumeric, backlit LCD
User Alarms:	User programmable alarms with DPDT Relays
Instrument Alarms:	Instrument error alarm relay for fail safe operation with optional Warning Light Tower and Horn
Analog Outputs:	Scalable Isolated 4 to 20 mA and 0 to 10 VDC
Digital I/O:	RS-232-C, bi-directional
Diagnostics:	Internal diagnostics; instrument error relay
Auto Zero:	Built-in solid state Automatic Zero (optional)
Enclosure / Dimensions:	Wall Mount/NEMA 4X : 15.50 x 12.76 x 6.28" (394x 324 x 172 mm) Benchtop : 2.81 x 5.62 x 9.41" (71 x 143 x 241 mm)
Power :	100 to 240 VAC 50/60 Hz, 50 Watts
Operating Conditions:	5 – 45 °C and 0 to 95% RH non-condensing
Compliance:	CE

*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 MiniHiCon-HP	•					
Model L2RM			•	•		
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					



IN USA, Inc. • A Brand of TELEDYNE API
 1-800-798-4029 • Tel: 781-444-2929 • www.inusacorp.com
api-sales@teledyne.com • © 2017 TELEDYNE API