



MODEL 465H

# Process Ozone Monitor

- Ideal for Water Treatment applications -



- UV Absorption Method
- Microprocessor controlled
- Menu driven software
- Ranges 0-5 to 0-25% w/w
- Built-in diagnostics
- Self-check warning alarms
- Fast response times
- Minimal zero drift
- Programmable auto-zero function included
- Programmable concentration alarms
- Temperature and pressure compensation (standard)
- Optional Ethernet

The Model 465H is a microprocessor based high concentration ozone monitor for measuring ozone in process gas streams in water treatment, food processing, and research applications. The 465H has been designed to give accurate and stable readings over long time periods with little or no maintenance or calibration. The Model 465H is available in a 19" rack mount or NEMA 4X wall mount enclosure.

The sensor module contained in the Model 465H uses detectors which have a very narrow band of spectral sensitivity, eliminating the need for UV band pass filters which are subject to deterioration by UV or humidity. Two detectors are used: one for the ozone measurement, and the other to compensate for changes in UV lamp intensity. This unique design provides a sensor which will operate for extended periods without calibration or maintenance.

Built-in diagnostics provide warning signals in case operating parameters are out of range. Test values can be viewed while the Model 465H is operating.

These displays, warnings, and self-diagnostics, along with the modular design, allow maximum uptime. In addition, any function that can be set or monitored from the front panel can be remotely set or viewed through the bi-directional RS-232 port.

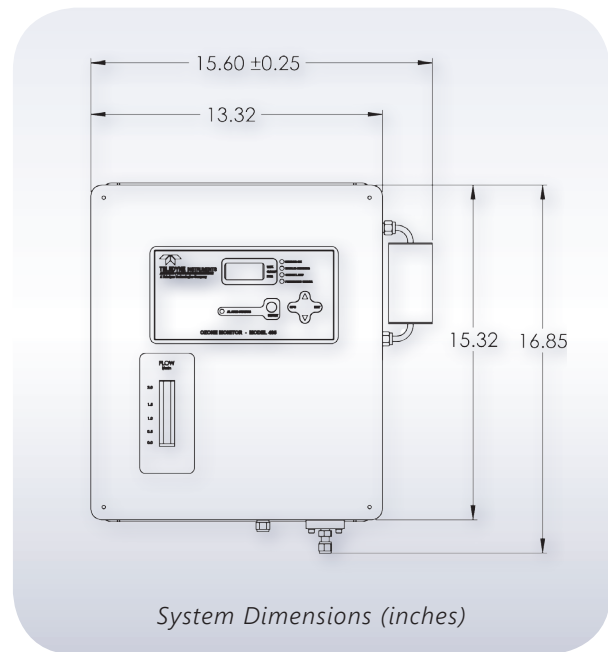
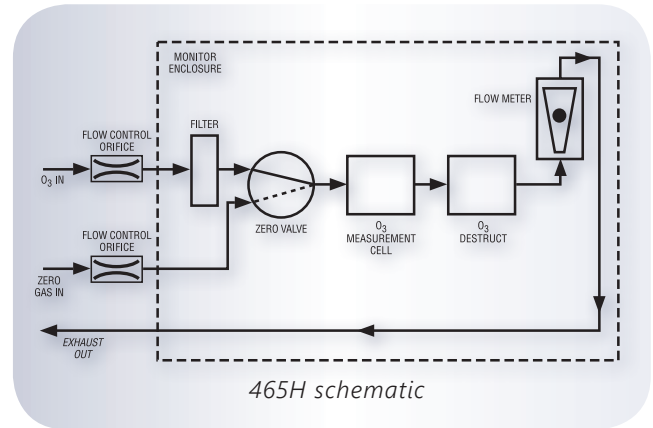
## Applications

- Water treatment applications
- Pharmaceutical industry
- Semiconductor
- Food and beverage
- Other industrial processes

# MODEL 465H Process Ozone Monitor

## Specifications

• Measurement Principle	UV Absorption (Beer Lambert Law)
• Ranges	0-5% w/w to 0-25% w/w 0-100g/Nm <sup>3</sup> to 0-400g/Nm <sup>3</sup>
• Measurement Units	% w/w, g/Nm <sup>3</sup>
• Accuracy	± 1% of Full Scale
• Precision/Repeatability	± 0.5% of Full Scale
• Display Resolution	0.01 % w/w, 0.1 g/Nm <sup>3</sup>
• Response Time	<30 seconds to 95%
• Compensation	Pressure, Temperature (NTP = 273.15K, 760mmHg)
• Gas Inlet Pressure Range	3.0 – 30.0 psig
• Gas Flow Rate	0.2 – 2.0 LPM
• Temperature Range	5-45°C
• Dimensions (H x W x D)	Rack Mount – 5.22" (133 mm) x 19" (483 mm) x 18.6" (473 mm) NEMA 4X – 16.85" x 15.60" x 6.90" (428 mm x 396 mm x 175 mm)
• Weight	Rack Mount – 13.3 lbs (6.0 kg) NEMA 4X – 15.0 lbs (6.8 kg)
• Power	110-240V, 50/60Hz, 74W
• Analog Output	0-5V or 4-20mA isolated output
• Status Outputs	System OK, Invalid Reading, UV Lamp Fault
• RS-232 (Optional RS-485)	57.6 Kbaud, DB-9 connector
• Approvals	CE
• Degree of Protection (NEMA)	IP65 (NEMA 4X)
• Warranty	1 year



— OZONE INSTRUMENTATION FOR EVERY APPLICATION —					
Model	Generator Output	Off Gas Detection	Safety / Leak Detection	Dissolved Ozone	Spot Checking
465L		•	•		
465M		•	•		
465H	•				
454	•	•			
452	•				
430			•		•
W1 + 465L				•	
470				•	

Specifications subject to change without notice. All specifications are based on constant conditions.

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