



MODEL 480H

Process Ozone Monitor

- Ideal for Water Treatment applications -



- UV Absorption Method
- Intuitive graphical user interface
- Mercury-free UV LED source
- Ranges 0-5 to 0-25% w/w
- Built-in diagnostics/error logs/warning alarms
- Modular internal design
- Minimal zero drift
- Programmable auto-zero function included
- Programmable concentration alarms
- Temperature and pressure compensation (standard)
- Ethernet standard, WiFi (coming soon)

The Model 480H is a state-of-the-art high concentration ozone monitor. The 480H provides accurate and stable readings over long time periods and was designed with the user in mind. The modular design allows for easier field serviceability. The Model 480H is housed in a splash-proof NEMA 4X wall mount enclosure.

The sensor module contained in the Model 480H uses detectors with 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 source intensity. This unique design enables the sensor to operate for extended periods without calibration or maintenance.

The mercury-free UV LED source in the detection cell makes this process ozone monitor the first of its kind.

Built-in diagnostics provide warning signals in case operating parameters are out of range. Test values can be viewed while the Model 480H is operating. These displays, warnings, and self-diagnostics, along with the modular design, allow maximum up-time. In addition, any function that can be set or monitored from the front panel can be remotely set or viewed.

The graphical display and user-friendly interface allow for quick checks of measurements and easy adjustment of settings. Improved communication interfaces allow for greater productivity.

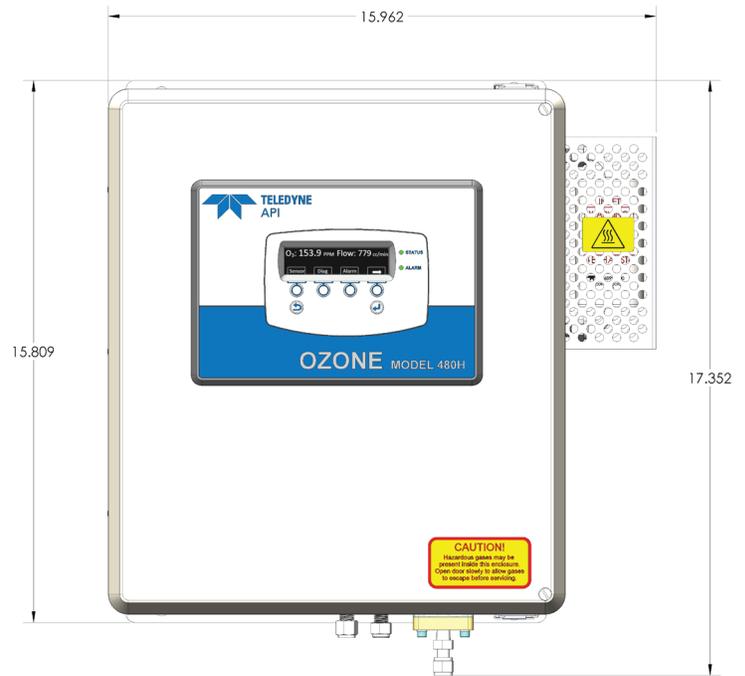
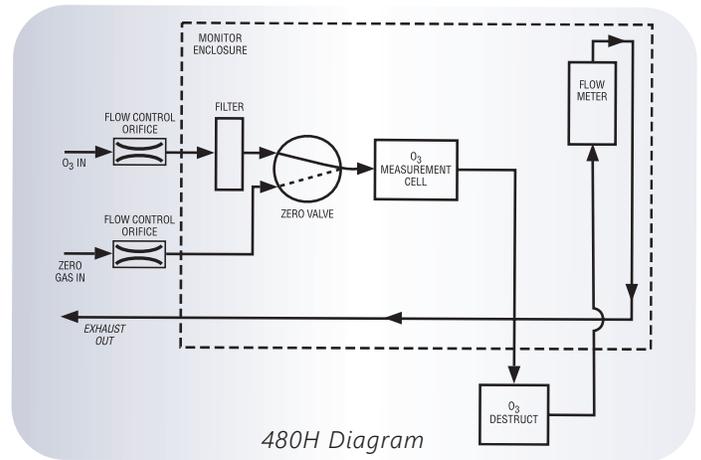
Applications

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

MODEL 480H Process Ozone Monitor

Specifications

• Measurement Principle	UV Absorption (Beer Lambert Law)
• Ranges	0-5% w/w to 0-25% w/w 0-100g/Nm ³ to 0-400g/Nm ³
• Measurement Units	% w/w, g/Nm ³
• Accuracy	± 1% of Full Scale
• Precision/Repeatability	± 0.5% of Full Scale
• Display Resolution	0.01 % w/w, 0.1 g/Nm ³
• 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 (HxWxD)	NEMA 4X – 17.35" x 15.96" x 6.80" (440.7 mm x 405.4 mm x 172.7 mm)
• Weight	NEMA 4X – 17.6 lbs (8kg)
• Power	110-240V, 50/60Hz, 74W
• Analog Output	0-5V or 4-20mA isolated output
• Status Outputs	Optically isolated Digital Outputs Sensor OK, Invalid Reading, Check Lamp, Pneumatic Error 24VDC, 30mA per output
• High Current Relay Outputs	SPDT Form C Dry contact, 250VAC/5A (System OK, HI Alarm, HI-HI Alarm)
• Communication Interface	RS-232, RS-485 Ethernet WiFi (coming soon)
• 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
480L		•	•		
480M		•	•		
480H	•				
454	•	•			
452	•				
430			•		•
W1 + 480L				•	
470				•	

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

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