



MODEL 480L

# Single/Multi-Channel Industrial Ozone Monitor

- Ideal for Safety / Leak detection applications -



- UV Absorption Method
- Intuitive graphical user interface
- Mercury-free UV LED source
- Built-in diagnostics/error logs/warning alarms
- Modular internal design
- Minimal zero drift
- 1, 3 and 6 stream versions available for safety monitoring
- Programmable concentration alarms
- Temperature and pressure compensation (standard)
- Ethernet standard, WiFi (coming soon)

The Model 480L UV Photometric Ozone Monitor is an extremely stable analyzer, ideal for critical low-level ppm safety and process applications. Its calibration is NIST traceable and the included pressure and temperature compensation ensure high accuracy under all conditions.

The Model 480L is housed in a splash-proof NEMA 4X wall mount enclosure and can be purchased either as a single stream unit or as a multi-channel unit capable of monitoring up to six individual sample streams. The Model 480L has been designed to deliver excellent performance, high reliability and simple operation. The modular design allows for easier field serviceability. Operating parameters can be easily set up in the field using the operator-friendly menu driven software.

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 480L is operating. These displays, warnings, and self-diagnostics, along with the modular design, allow maximum uptime. A self-adjusting pump allows for longer pump life. In addition, improved communication interfaces allow for greater productivity. Any function that can be set or monitored from the front panel can be remotely set or viewed.

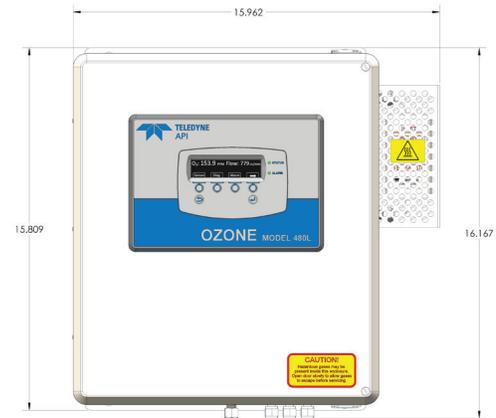
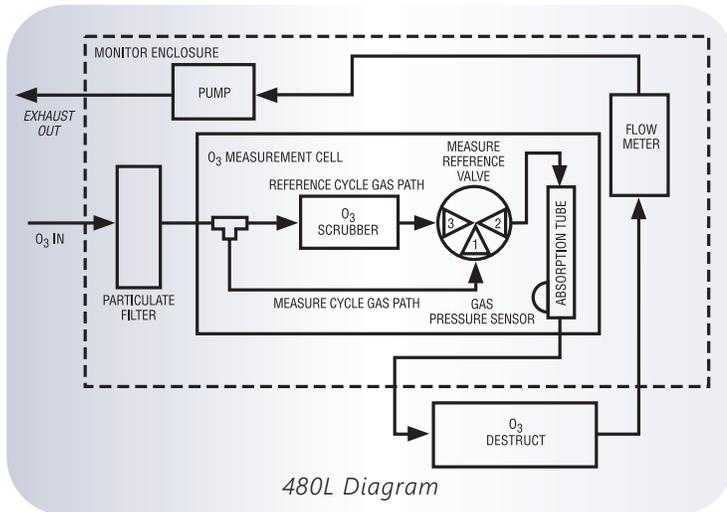
## Applications

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

# Single/Multi-Channel Industrial Ozone Monitor

## Specifications

• Measurement Principle	UV Absorption (Beer-Lambert Law)	• Analog Output	0-5V or 4-20mA isolated output
• Measurement Range	From 0-1 ppm to 0-500 ppm	• High Current Relay Outputs (single-channel only)	SPDT Form C Dry contact, 250VAC/5A (System OK, Global HI Alarm, Global HI-HI Alarm)
• Units	ppmv, ppbv, pphm, $\mu\text{g}/\text{m}^3$	• Multi-stream signal outputs (3 or 6 channel, 3 per channel)	SPST Dry Contact, 50 VDC, 250mA per output Stream ID, HI Alarm, HI-HI Alarm
• Precision / Repeatability	$\pm 0.5\%$ of full scale	• Status Outputs	Optically isolated Digital Outputs Sensor OK, Invalid Reading, Pneumatic Error, Check Lamp 24VDC, 30mA per output
• Display Resolution	.001 ppm	• Stream ID Outputs	Channel 1 through 6
• Accuracy	$\pm 1\%$ of full scale	• Communication Interface	RS-232, RS-485 Ethernet WiFi (coming soon)
• Zero Drift	.005 ppm/month, non-cumulative (.050 ppm/month Ranges >20 ppm)	• Approvals	CE
• Lower Detectable Limit (LDL)	.003 ppm	• Degree of Protection (NEMA)	IP65 (NEMA 4X)
• Response Time	< 30 seconds to 95%	• Warranty	1 year
• Alarm Mode	Latching/non-latching, operator selectable		
• Stream Selector Cycle Time	1 min. to 6 min., operator selectable		
• Sample Flow Rate	0.8 LPM		
• Operating Temperature Range	5-45°C		
• Dimensions (HxWxD)	NEMA 4X – 16.17" x 15.96" x 6.80" (410.6 mm x 405.4 mm x 172.7 mm)		
• Weight	NEMA 4X – 17.6 lbs (8kg)		
• Power	100 - 240VAC, 50/60 Hz, 74W		



— 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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