



# Single/multi-channel ozone analyzer 450

The Model 450 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 450 is available either as a single stream unit or as a multi-channel unit capable of monitoring up to six individual sample streams. The unit has been designed to deliver excellent performance, high reliability and simple operation.

Operating parameters can be easily set up in the field using the operator-friendly, menu driven software. Built-in diagnostics provide warning signals if the analyzer malfunctions. Test values can be viewed while the Model 450 is operating.

These displays, warnings, and self-diagnostics, along with plug-in cards, allow the Model 450 to be quickly repaired. In addition, any function that can be set or monitored from the front panel keyboard display can be remotely set or viewed through the bi-directional RS-232 port.



## ADVANTAGES

- UV absorption method
- Microprocessor controlled
- Menu driven software
- Lower detectable limit 3 ppb
- Built-in diagnostics
- Self-check warning alarms
- Fast response times
- Minimal zero drift
- 1, 3 and 6 stream versions available for safety monitoring
- Programmable concentration alarms
- Temperature and pressure compensation (standard)
- Ozone destructor (standard)





## TECHNICAL SPECIFICATION

Measuring principle	UV absorption (beer lambert law)
Measurement range	From 0-1 ppm to 0-1000 ppm
Units	ppmv, ppbv, ppmw, ppmh, $\mu\text{g}/\text{m}^3$ , $\text{mg}/\text{m}^3$
Precision/repeatability	$\pm 0.1\%$ of full scale
Resolution	.001 ppm
Linearity	1%
Zero drift	.005 ppm/month, non-cumulative
Lower detectable limit (LDL)	.003 ppm
Response time	<30 seconds to 95%
Relay mode	Latching/non-latching, operator selectable
Temperature compensation	Standard
Pressure compensation	Standard
Stream selector cycle time	1 minute to 120 minutes, operator selectable
Sample flow rate	1 to 2.5 liters/minute
Temperature range	5°C to 45°C
Dimensions (HxWxD)	Rackmount - 7" x 17" x 18.2" (178 x 432 x 463 mm) NEMA 4X - 19.5" x 17.25" x 9.63" (495 x 438 x 245 mm)
Weight	Rackmount - 28 lbs (13 kg), NEMA 4X - 38 lbs (17.3 kg)
Power	100-240 VAC, 50/60 Hz
Approvals	<b>CE</b>
Analog output (bi-polar)	100mV, 1V, 5V, 10V (operator selectable); 4-20mA or 0-20mA isolated outputs optional
Status outputs	System OK, Low Flow (option), Pressure, Temperature, UV Lamp Fault
Stream I.D. outputs	Channel 1 through 6
Control inputs	Channel 1 through 6, remote selection
RS-232	DB-9 connector (option)