

## MODEL 450

SINGLE / MULTI-CHANNEL

# Ozone Analyzer



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 Model 450 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.

**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**

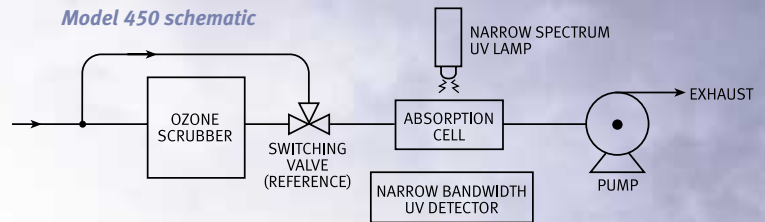
**Programmable concentration alarms**

**Temperature and pressure compensation (standard)**

**Ozone destructor (standard)**

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# SINGLE / MULTI-CHANNEL Ozone Analyzer



### SPECIFICATIONS

Measuring Principle:	UV Absorption (Beer Lambert Law)	Temperature Range:	5°C to 45°C
Measurement Range:	From 0-1 ppm to 0-1000 ppm	Dimensions (HxWxD):	Rackmount – 7" (178 mm) x 17" (432 mm) x 18.2" (463 mm) NEMA 4X – 19.5" (495 mm) x 17.25" (438 mm) x 9.63" (245 mm)
Units:	ppmv, ppbv, ppmw, pphm, µg/m <sup>3</sup> , mg/m <sup>3</sup>	Weight:	Rackmount – 28 lbs (13 kg) NEMA 4X – 38 lbs (17.3 kg)
Precision/Repeatability:	±0.1% of full scale	Power:	100-240 VAC, 50/60 Hz
Resolution:	.001 ppm	Approvals:	CE
Linearity:	1%	Analog Output (Bi-Polar):	100mV, 1V, 5V, 10V (operator selectable); 4-20mA or 0-20mA isolated outputs optional
Zero Drift:	.005 ppm/month, non-cumulative	Status Outputs:	System OK, Low Flow (option), Pressure, Temperature, UV Lamp Fault
Lower Detectable Limit (LDL):	.003 ppm	Stream I.D. Outputs:	Channel 1 through 6
Response Time:	<30 seconds to 95%	Control Inputs:	Channel 1 through 6, remote selection
Relay Mode:	Latching/non-latching, operator selectable	RS-232:	DB-9 connector (option)
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		

### HOW TO ORDER

#### Model 450-S Single Stream Analyzer

#### Model 450-3 Three Stream Analyzer

#### Model 450-6 Six Stream Analyzer

#### Includes:

- Internal sample pump
- Temperature and pressure compensation
- Analog voltage output
- Status output (TTL) and remote control inputs
- RS232 input/output

#### Specify range:

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| <input type="checkbox"/> 0 – 1 ppm  | <input type="checkbox"/> 0 – 100 ppm  |
| <input type="checkbox"/> 0 – 5 ppm  | <input type="checkbox"/> 0 – 200 ppm  |
| <input type="checkbox"/> 0 – 10 ppm | <input type="checkbox"/> 0 – 500 ppm  |
| <input type="checkbox"/> 0 – 50 ppm | <input type="checkbox"/> 0 – 1000 ppm |

#### Specify voltage/frequency:

- |   |                                    |
|---|------------------------------------|
| <input type="checkbox"/> 100V/50hz      | <input type="checkbox"/> 100V/60hz |
| <input type="checkbox"/> 220V/50hz      | <input type="checkbox"/> 115V/60hz |
| <input type="checkbox"/> 230V/50hz (CE) | <input type="checkbox"/> 220V/60hz |
| <input type="checkbox"/> 240V/50hz      |                                    |

#### Specify output voltage:

- |                              |                             |                             |                                |
|------------------------------|-----------------------------|-----------------------------|--------------------------------|
| <input type="checkbox"/> 10V | <input type="checkbox"/> 5V | <input type="checkbox"/> 1V | <input type="checkbox"/> 100mV |
|------------------------------|-----------------------------|-----------------------------|--------------------------------|

#### Additional Options:

- Isolated 0-20mA or 4-20mA output
- Rack Mount (19") with chassis slides
- Rack Mount only
- Particulate filter
- NEMA 4X enclosure
- Stainless steel fittings
- Low Flow Alarm

#### Accessories:

- Expendables Kit
- Spare Parts Kit
- Sample Pre-Filter (specify quantity)

For more information on API's family of monitoring instrumentation products, call us or visit our website at [www.advpol.com](http://www.advpol.com)