



**MODEL 460L**

# NEMA Ozone Monitor



**UV absorption method**

**Programmable auto-zero function included**

**1ppm to 500ppm ranges — user selectable**

**Microprocessor based**

**Analog and Digital I/O**

The Model 460L is a microprocessor based low concentration ozone monitor for measuring ambient level ozone concentrations in water treatment, food processing, and research applications. The 460L has been designed to give accurate and stable readings over long time periods with little or no maintenance or calibration.

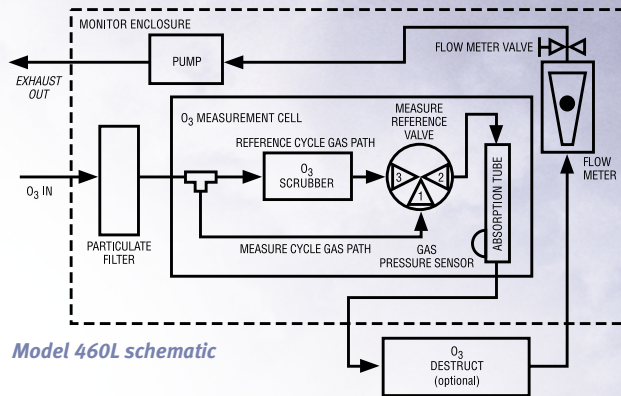
The flexibility of the software as well as the analog and digital I/O allow the Model 460L to interface with a broad range of devices for process control and data logging.



## MODEL 460L



## NEMA Ozone Monitor



Model 460L schematic

### SPECIFICATIONS

Measurement Principle	UV Absorption (Beer Lambert Law)	Temperature Range	5-45° C
Ranges	1ppm to 500ppm, 1000ppb to 10,000ppb	Humidity Range	10-90% RH, Non-Condensing
Measurement Units	ppm; ppb	Dimensions (H x W x D):	12.64"x 11.19"x 6.08" (321mm x 284mm x 154mm)
Accuracy	+ 1% of Full Scale	Weight:	9.40lb (4.27kg)
Zero Noise	< .0015 ppm (rms)	Power:	110-240V~, 50/60Hz, 1.1A
Span Noise	< .5% of reading (rms) (above 0.3 ppm)	Environmental Conditions:	Installation Category (Over Voltage Category) II; Pollution Degree 2
Lower Detectable Limit	< .003 ppm (rms)	Analog Output Voltage:	0-5V, 4-20mA (optional)
Linearity	Better than 1% full scale	Relay Outputs	3 relay outputs: Sensor OK and two concentration alarms (Hi & Hi-Hi)
Response Time (95%)	<30 seconds	Relay Type & Output Rating	SPDT: 250V AC, 3A
Repeatability	+ 0.5% of full scale range	Degree of Protection (IP Code)	IP65 (NEMA 4X)
Display Resolution	.001 ppm, 1 ppb		
Gas Flow Rate	1.0 – 2.0 LPM		
Compensation	Pressure, Temperature (NTP = 273.15K, 760mmHg)		
Gas Inlet Pressure Range	11.0 – 16.0 psia		

### HOW TO ORDER

#### Model 460L NEMA Ozone Monitor includes:

— " SS Compression fittings

#### Standard Ranges (specify):

- |                                      |                                    |
|--------------------------------------|------------------------------------|
| <input type="checkbox"/> 0-1000ppb   | <input type="checkbox"/> 0-5000ppb |
| <input type="checkbox"/> 0-10,000ppb | <input type="checkbox"/> Other ppb |
| <input type="checkbox"/> 0-1ppm      | <input type="checkbox"/> 0-10ppm   |
| <input type="checkbox"/> 0-100ppm    | <input type="checkbox"/> 0-500ppm  |
| <input type="checkbox"/> Other ppm   |                                    |

#### Specify Interface:

- RS485    RS232

#### Analog Output Type:

- 0-5V (standard)    4-20mA (optional)

#### Pressure/Temperature Compensation

#### Auto-Zero Valve

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

