



# Process ozone monitor 460L

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.



## ADVANTAGES

- UV absorption method
- 1ppm to 500ppm ranges - user selectable
- Microprocessor based
- Analog and Digital I/O





## TECHNICAL SPECIFICATION

Measurement principle	UV absorption (beer lambert law)
Ranges	1 ppm to 500 ppm; 1000 ppb to 10,000 ppb
Measurement units	ppm; ppb
Accuracy	±1% of full scale
Zero noise	<.0015 ppm (rms)
Span noise	<.5% of reading (rms) (above 0.3 ppm)
Lower detectable limit	<.003 ppm (rms)
Linearity	Better than 1% full scale
Response time	<30 sec to 95%
Repeatability	± 0.5% of full scale range
Display resolution	.001 ppm, 1 ppb
Gas flow rate	0.5 – 2.0 LPM
Compensation	Pressure, temperature (NTP = 273.15K, 760 mmHg)
Gas inlet pressure range	11.0 - 16.0 psia
Temperature range	5°C to 45°C
Humidity range	10-90% RH, non-condensing
Dimensions (HxWxD)	16.01" x 13.31" x 8.02" (407 x 338 x 204 mm)
Weight	14.60 lb (6.64 kg)
Power	110-240V~, 50/60Hz, 1.1A
Environmental conditions	Installation category (over voltage category) II; pollution degree 2
Analog output voltage	0-5V, 4-20mA (optional)
Relay outputs	3 relay outputs: Sensor OK and two concentration alarms (Hi & Hi-Hi)
Relay type & output rating	SPDT: 250V AC, 3A
Degree of protection (IP code)	IP65 (NEMA 4X)