



Model 460L NEMA OZONE MONITOR

The Model 460L is a microprocessor based, low concentration gas phase ozone monitor for measuring ambient gas streams 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.

- **UV Absorption**
- **Programmable Auto-Zero Function Included**
- **1ppm to 500ppm – User Selectable**
- **Microprocessor Based**
- **Analog and Digital I/O**

Specifications: 460L

Measurement Principle	UV Absorption (Beer Lambert Law)
Ranges:	1ppm to 500ppm: User selectable
Measurement Units	ppm; ppb
Accuracy	\pm 1% of full scale
Zero Noise	< .0015 ppm (rms)
Span Noise	< .5% of reading (rms) (above 0.1 ppm)
Lower Detectable Limit	< .003 ppm (rms)
Linearity	Better than 1% full scale
Response Time (95%)	<30 seconds
Repeatability	\pm 0.5% of full scale range
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
Temperature Range	5-450 C
Humidity Range	10-90% RH, Non-Condensing
Dimensions (H x W x D)	12.64"x 11.19"x 6.08 “(321mm x 284mm x 154mm)
Weight	9.40 lb (4.27kg)
Power	110-240V~, 50/60Hz, 2.5A
Environmental Conditions	Installation Category (Over Voltage Category) II Pollution Degree 2
Maximum Operating Altitude	2000 meters
Analog Voltage Output	Single output: 0-5V, Option available converting voltage output to 4-20mA output with maximum voltage between outputs and ground 60V peak
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)

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