



Process ozone monitor 460M

The Model 460M is a microprocessor based medium range ozone monitor for measuring process ozone concentrations in water treatment, food processing, and research applications. The design has been specifically optimized for applications requiring the measurement of ozone at near-ambient pressure such as water treatment contactor off-gas measurement. The Model 460M gives accurate and stable readings over long time periods with little or no maintenance or calibration.

The sensor module contained in the Model 460M uses detectors that have a narrow band of spectral sensitivity, eliminating the need for UV band pass filters that are subject to deterioration by UV or humidity. Two detectors are used: one for the ozone measurement, and the other to compensate for changes in UV lamp intensity.

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



ADVANTAGES

- UV absorption method
- 0-1000ppm to 0-20,000ppm
- Microprocessor based
- Analog and digital I/O
- Sample conditioning system for sampling from humid environments





TECHNICAL SPECIFICATION

Measurement principle	UV absorption (beer lambert law)
Ranges	0-1000 ppm to 0-20,000 ppm; 0-5 g/Nm ³ to 0-50 g/Nm ³ ; 0-1% w/w to 0-5% w/w
Measurement units	ppm, g/Nm ³ , % w/w
Accuracy	±1% of full scale
Precision/repeatability	± 0.5% of full scale range
Display resolution	1 ppm, 0.01 g/Nm ³ , 0.001% w/w
Response time	<45 sec to 95%
Compensation	Pressure, temperature (NTP = 273.15K, 760 mmHg)
Gas inlet pressure range	11.0 - 16.0 psig
Gas flow rate	1.0 - 2.5 LPM
Temperature range	5°C to 45°C
Dimensions (HxWxD)	16.01" x 15.77" x 8.02" (407 x 401 x 204 mm)
Weight	15.50 lb (7.50 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)
Isolated Analog Output 4-20mA Mode (optional):	Maximum voltage between outputs and ground 60V peak
Degree of protection (IP code)	IP65 (NEMA 4X)