



Process ozone monitor 460H

The Model 460H is a microprocessor based high concentration ozone monitor for measuring ozone in process gas streams in water treatment, food processing, and research applications. The 460H was designed to give accurate and stable readings over long time periods with little or no maintenance or calibration.

The sensor module contained in the Model 460H 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.

This unique design provides a sensor that will operate for extended periods without calibration or maintenance. The flexibility of the software as well as the analog and digital I/O allow the Model 460H to interface with a broad range of devices for process control and data logging.



ADVANTAGES

- UV absorption method
- Programmable autozero function included
- 0-5, 0-10, 0-15, 0-20% w/w
- Microprocessor based
- Analog and Digital I/O





TECHNICAL SPECIFICATION

Measurement principle	UV absorption (beer lambert law)
Ranges	0-5% w/w to 0-20% w/w, 0-100g/Nm ³ to 0-300 g/Nm
Measurement units	% w/w g/Nm ³
Accuracy	±1% of full scale
Precision/repeatability	±0,5% of full scale range
Display resolution	0.01 % w/w, 0.1 g/Nm ³
Response time	<5 sec. to 95%
Compensation	Pressure, Temperature (NTP = 273.15K, 760mmHg)
Gas inlet pressure range	3.0-30.0 psig
Gas flow rate	0.2-2.0 LMP
Temperature range	5°C to 45°C
Dimensions (HxWxD)	15.11" x 11.59" x 6.19 (384 x 294 x 157 mm)
Weight	9.40 lb (4.27 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)