



TELEDYNE INSTRUMENTS
Advanced Pollution Instrumentation
A Teledyne Technologies Company

MODEL **460H**

Process Ozone Monitor



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

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.



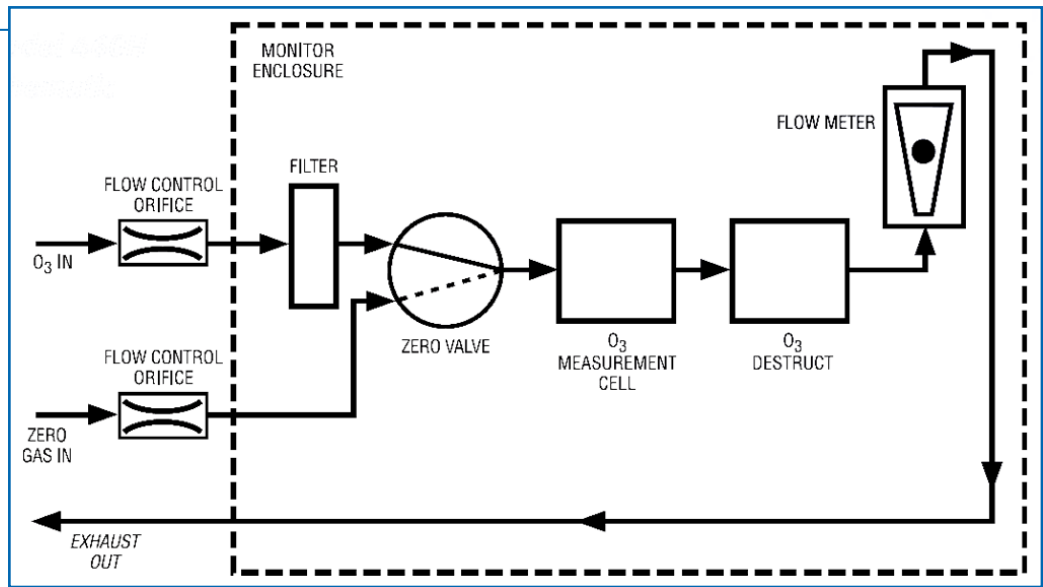
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Specifications

Measurement Principle:	UV Absorption (Beer Lambert Law)	Dimensions (H x W x D):	15.11" x 11.59" x 6.19" (384 mm x 294 mm x 157 mm)
Ranges:	0-5% w/w to 0-20% w/w 0-100g/Nm ³ to 0-300g/Nm ³	Weight:	9.40lb (4.27kg)
Measurement Units:	% w/w, g/Nm ³	Power:	110-240V~, 50/60Hz, 1.1A
Accuracy:	± 1% of Full Scale	Environmental Conditions:	Installation Category (Over Voltage Category) II; Pollution Degree 2
Precision/Repeatability:	± 0.5% of Full Scale Range	Analog Output Voltage:	0-5V, 4-20mA (optional)
Display Resolution:	0.01 % w/w, 0.1 g/Nm ³	Isolated Analog Output 4-20mA Mode (optional):	Maximum voltage between outputs and ground 60V peak
Response Time:	<5 seconds to 95%	Degree of Protection (IP Code):	IP65 (NEMA 4X)
Compensation:	Pressure, Temperature (NTP = 273.15K, 760mmHg)		
Gas Inlet Pressure Range:	3.0 – 30.0 psig		
Gas Flow Rate:	0.2 – 2.0 LPM		
Temperature Range:	5-45°C		

Schematic



How to Order

Model 460H Process Ozone Monitor includes:

- 1/4" SS Compression fittings
- Pressure/Temperature Compensation
- Auto-Zero Valve
- Flowmeter
- Flow Control Orifices

Standard ranges (specify):

- | | |
|------------------------------------|-------------------------------------------------|
| <input type="checkbox"/> 0-5% w/w | <input type="checkbox"/> 0-100g/Nm ³ |
| <input type="checkbox"/> 0-10% w/w | <input type="checkbox"/> 0-200g/Nm ³ |
| <input type="checkbox"/> 0-15% w/w | <input type="checkbox"/> 0-300g/Nm ³ |
| <input type="checkbox"/> 0-20% w/w | <input type="checkbox"/> 0-400g/Nm ³ |

Specify Interface:

- RS485 RS232

Analog Output Type:

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

Specifications subject to change without notice. M460H/09.06



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