



MODEL 460H

NEMA 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 has been 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 which have a very narrow band of spectral sensitivity, eliminating the need for UV band pass filters which 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 which 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.

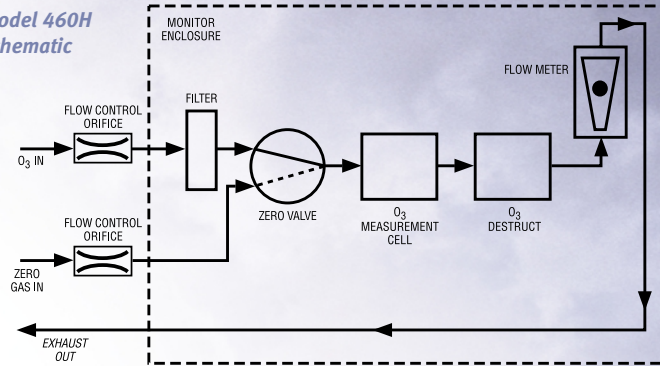


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Model 460H schematic



SPECIFICATIONS

Measurement Principle	UV Absorption (Beer Lambert Law)	Dimensions (H x W x D)	12.64" x 11.19" x 6.08" (321 mm x 284 mm x 154 mm)
Ranges	0-5, 0-10, 0-15, 0-20% w/w 0-100g/Nm ³ , 0-200g/Nm ³ , 0-300g/Nm ³ , 0-400g/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*	Maximum voltage between outputs and ground 60V peak
Rise/Fall Time (95%)	<5 sec. to 95%	Degree of Protection (IP Code)	IPX65 (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		

HOW TO ORDER

Model 460H NEMA Ozone Monitor includes:

—” SS Compression fittings

Standard Ranges (specify):

- 0-5% w/w
- 0-10% w/w
- 0-15% w/w
- 0-20% w/w
- 0-100g/Nm³
- 0-200g/Nm³
- 0-300g/Nm³
- 0-400g/Nm³

Specify Interface:

- RS485
- RS232

Analog Output Type:

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

Pressure/Temperature Compensation

Auto-Zero Valve

For more information on Teledyne API's family of monitoring instrumentation products, call us or visit our website at www.teledyne-api.com

