

Ozone sensor
module

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Ozone sensor module SM-7/SM-EC

The SM-EC is an electrochemical ozone sensor module for use with our OS-4 or OS-6 digital ozone controller, or as a stand alone module using the RS-232 output. This technology provides accurate ppb-level detection and resolution over a wide (.02-20 ppm, or 1-50 ppm) concentration range. The sensor module is compensated for temperature and humidity effects, with little to no cross sensitivity to VOC's. The SM-EC makes our digital instruments more accurate at both ppb and high ppm levels of ozone, enabling improved monitoring and control for our users.



Specification

Measurement range	0-20 ppm	1-50 ppm
Sensor technology	Electrochemical (EC)	
Compatible instruments	OS-4 & OS-6 & Stand-alone	OS-6 & Stand-alone
Lower detection limit	0.03 ppm	0.08 ppm
Resolution	0.01 ppm	
Accuracy	The greater of: $\pm 10\%$ of reading or ± 0.03 ppm	The greater of: $\pm 10\%$ of reading or ± 0.2 ppm
Response time	< 60s	
Measurement rate	1 second	
Temperature compensation	Yes	
Recommended temp range	10-30 °C (50-86 °F)	
Recommended humidity range	30-60% RH	



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Warm-up time	1 hour before testing; for best results allow 12 hours before continued use.
Enclosure	Wall mountable, self-extinguishing, black ABS plastic
Enclosure size	128.3 x 84.6 x 26.42 mm (5.05" x 3.33" x 1.04")

Features

- 25 ppb sensitivity with 5 ppb resolution
- Choice of two operating ranges (0-20 ppm or 1-50 ppm)
- Electrochemical sensor
- Wide detection range
- Uses easily available 8-24 VDC power
- Small enough to mount almost anywhere
- Low power
- Low maintenance

Applications

- Laundries using ozone
- Large noisy factory environments
- Casinos and other ozonated public areas
- Agricultural/cold storage areas
- Farms
- Food processing plants

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