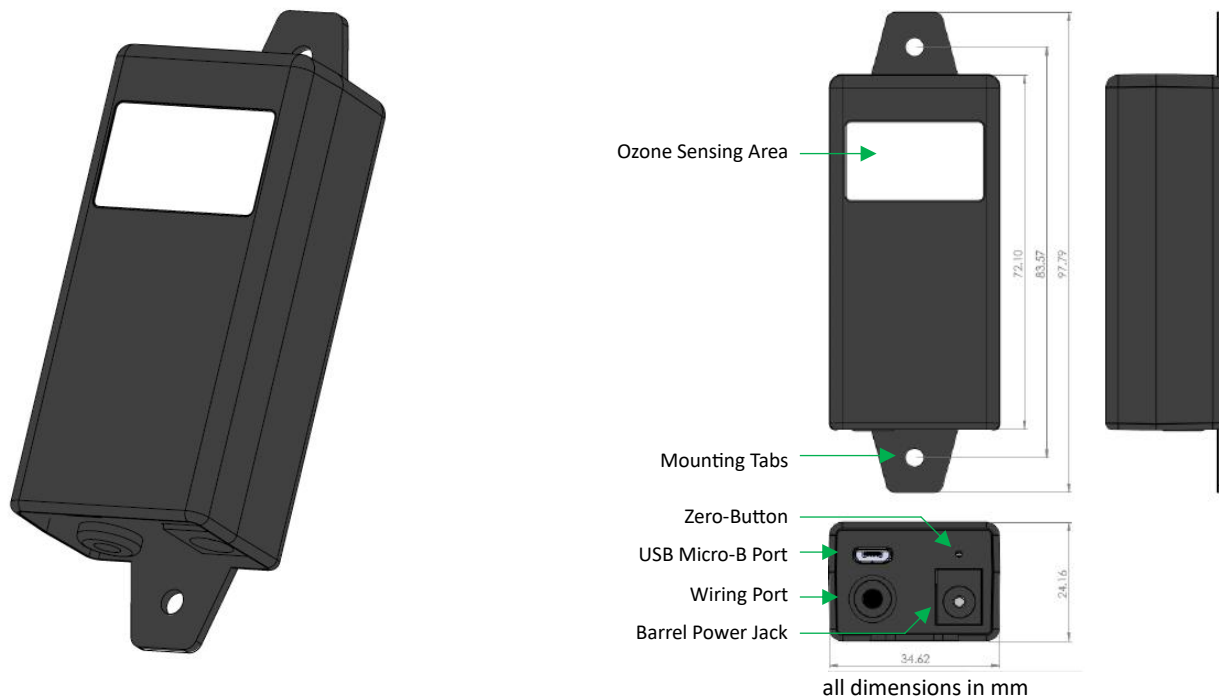


Calibrated Digital Ozone (O₃) Sensor Instrument – SM-500



DESCRIPTION

The SM-500 is a calibrated digital ozone sensor instrument that utilizes a state-of-the-art electrochemical (EC) ozone sensing element. The SM-500 can be paired with Eco Sensors' OS-4 & OS-6 ozone controllers or it can be configured as an independent digital ozone instrument via RS-232 or USB serial communication. The SM-500 includes a user-replaceable calibrated sensor module (RME-O3) that enables users to easily maintain calibration requirements for their application. The SM-500 also includes a convenient zero button. The SM-500 is available with standard calibration ranges of 0-20 ppm and 1-50 ppm. Custom calibration ranges may be available. Please contact Eco Sensors for more information.

FEATURES

- Integrates seamlessly with Eco Sensors' OS-4 or OS-6 Ozone Controllers using standard 3-wire power and communication cable.
- USB power and serial communication is available via the USB micro-b port.
- Other flexible power configurations are possible:
 - 5 VDC power input via screw terminal
 - 7-30 VDC power input via screw terminal or barrel jack
- Other convenient data configurations are possible:
 - RS-232 transmission via screw terminal
 - Analog output, featuring a buffered 0-2 V signal that is linearly proportional to the gas concentration.
- Zero button for re-zeroing of the sensor module in the application.
- A user-replaceable sensor module within the SM-500
- Temperature and relative humidity sensor data is included in the digital output.

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SM-500

SPECIFICATIONS

Ozone sensor specifications are inherent to the integrated user-replaceable RME-O3 sensor module within the SM-500.

Product Part Number:		SM-500	
Sensor Module Part Number:		RME-O3-20	RME-O3-50
Sensor Technology:		Electrochemical (EC) Ozone Sensor	
Measurement Range:		0-20 ppm	0.8-50 ppm
Compatible Instruments:		OS-4, OS-6, & Stand-alone	OS-6 & Stand-alone
Digital Output	Lower Detection Limit:	0.03 ppm	0.8 ppm
	Resolution*:	0.005 ppm	0.01 ppm
	Accuracy*:	The greater of: ± 10% of reading or ± 0.2 ppm	The greater of: ± 10% of reading or ± 0.2 ppm
Analog Output	Default Set Point:	1 V @ 10 ppm	1 V @ 25 ppm
	Default Range:	0-20 ppm (0-2 V)	0.8-50 ppm (0-2 V)
	Lower Detection Limit:	0.3 ppm	0.8 ppm
	Resolution*:	0.1 ppm	0.2 ppm
	Accuracy*:	The greater of: ± 10% of reading or ± 0.2 ppm	The greater of: ± 10% of reading or ± 0.2 ppm
Response Time*:		< 30s TO 50% FS, <180s to 90% FS	
Data Update Rate:		1 second	
Temperature Compensation:		Yes	
Recommended Temperature Range:		50 °F to 86 °F (10 °C to 30 °C)	
Recommended Humidity Range:		25 - 75% RH	
Warm-up Time:		1 hour before testing; for best results allow 12 hours before continued use.	
Supply Voltage:		5-30 VDC, 20 mA	
Enclosure Size:		3.85 x 1.36 x 0.95 in (97.8 x 34.6 x 24.2 mm)	

*At ambient conditions: 25 °C, 50% RH

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