

Midas® SENSOR CARTRIDGE SPECIFICATIONS

Ozone (O₃) MIDAS-S-O3X, MIDAS-E-O3X



Technical Data	
Gas Measured	Ozone (O ₃)
CARTRIDGE PART NUMBER	MIDAS-S-O3X 1 year standard warranty MIDAS-E-O3X 2 year extended warranty
SENSOR TECHNOLOGY	3 electrode electrochemical cell
MEASURING RANGE (PPM)	O ₃ 0 – 0.4 ppm
MINIMUM ALARM 1 SET POINT	0.050 ppm
REPEATABILITY	< ± 5 % of measured value
LINEARITY	< ± 5 % of measured value
RESPONSE TIME T _{62.5}	< 60 seconds
SENSOR CARTRIDGE LIFE EXPECTANCY	≥ 24 months under typical application conditions
OPERATING TEMPERATURE EFFECT OF TEMPERATURE	0° to + 40°C (32° to 104°F)
ZERO SENSITIVITY	< ± 0.0018 ppm / °C < ± 0.5% / °C
OPERATING HUMIDITY (CONTINUOUS) EFFECT OF HUMIDITY	15 – 90 % rH
ZERO SENSITIVITY	Abrupt changes will cause a short term drift < ± 1 % of measured value / % rH
OPERATING PRESSURE	90 - 110 kPa
EFFECT OF POSITION	No effect in typical application
LONG TERM DRIFT	
ZERO SENSITIVITY	No drift < 5 % of measured value / 6 months
CALIBRATION GAS	Ozone (O ₃)
CHALLENGE GAS (BUMP TEST)	Chlorine (Cl ₂)
WARM UP TIME	< 10 minutes
STORAGE TEMPERATURE	+ 5° to + 25°C (+ 41° to + 77°F)

The sensor data listed is based on ideal test environment; observed performance may vary based on the actual monitoring system and the sampling conditions employed.

Find out more

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Please Note:

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions.

Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines.

This publication is not intended to form the basis of a contract.

Cross Sensitivities

Each Midas® sensor is potentially cross sensitive to other gases and this may cause a gas reading when exposed to other gases than those originally designated. The table below presents typical readings that will be observed when a new sensor cartridge is exposed to the cross sensitive gas (or a mixture of gases containing the cross sensitive species).

GAS / VAPOR	CHEMICAL FORMULA	CONCENTRATION APPLIED (PPM)	READING (PPM HF)
Ammonia	NH ₃	100	-3
Arsine	AsH ₃	0.2	0
Carbon Dioxide	CO ₂	5000	0
Carbon Monoxide	CO	100	0
Chlorine	Cl ₂	1	1.2
Chlorine Dioxide	ClO ₂	1	1.5
Chlorine Trifluoride	ClF ₃	1	1 (Theoretical)
Fluorine	F ₂	0.1	0.1
Hydrazine	N ₂ H ₄	3	-3
Hydrogen	H ₂	3000	0
Hydrogen Sulfide	H ₂ S	20	1.6
Nitric Oxide	NO	100	1
Nitrogen	N ₂	100 %	0
Nitrogen Dioxide	NO ₂	10	6
Sulfur Dioxide	SO ₂	20	-0.2

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