



Midas® Sensor Cartridge Specifications

Ozone (O₃) MIDAS-E-O3H

Gas Measured	Ozone (O ₃)
Cartridge Part Number	MIDAS-E-O3H 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range	O ₃ 0 – 0.7ppm
Minimum Alarm 1 Set Point	0.300ppm
Lower Detection Limit	0.075ppm
Linearity	< ± 5% of measured value
Repeatability	< ± 5% of measured value
Resolution	0.005ppm
Response Time t_{62.5}	≤ 60 seconds
Sensor Cartridge Life Expectancy	≥ 24 months under typical application conditions
Operating Temperature	0°C to +40°C (32°F to 104°F)
Effect of Temperature	
Zero	< ± 0.0008ppm / °C
Sensitivity	< ± 5% of measured value / °C
Operating Humidity	10 to 90% RH
Effect of Humidity	
Zero	Abrupt changes will cause a short-term drift
Sensitivity	< ± 1% of measured value / % RH
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero	No drift
Sensitivity	< 5% of measured value / 1 year
Calibration Gas	Ozone (O ₃)
Bump Test Gas	Nitrogen Dioxide (NO ₂)
Warm Up Time	< 20 minutes
Storage Temperature	+5°C to +25°C (+41°F 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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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 Measured	Chemical Formula	Concentration Applied(ppm)	Reading (ppm O ₃)
Carbon Dioxide	CO ₂	20000	0
Chlorine	Cl ₂	1	1.2
Hydrogen Chloride	HCl	9	1.63
Hydrogen Sulfide	H ₂ S	25	-15.5(Transient)
Nitrogen Dioxide	NO ₂	6	2.5
Sulphur Dioxide	SO ₂	10	-3(Transient)
Chlorine Dioxide	ClO ₂	1	1.75

Interference differs from cartridge to cartridge and over cell life. It is not recommended to calibrate with cross sensitivity factors. The target gas should be used for calibration.