

## Midas<sup>®</sup> SENSOR CARTRIDGE SPECIFICATIONS

### Ozone (O<sub>3</sub>) MIDAS-E-O3H



<b>Gas Measured</b>	<b>Ozone (O<sub>3</sub>)</b>
<b>Cartridge Part Number</b>	MIDAS-E-O3H 2 year extended warranty
<b>Sensor Technology</b>	3 electrode electrochemical cell
<b>Measuring Range (ppm)</b>	O <sub>3</sub> 0 – 0.7ppm
<b>Minimum Alarm 1 Set Point</b>	0.085ppm
<b>Repeatability</b>	< ± 5% of measured value
<b>Linearity</b>	< ± 5% of measured value
<b>Response Time t<sub>92.5</sub></b>	< 60 seconds
<b>Sensor Cartridge Life Expectancy</b>	≥ 24 months under typical application conditions
<b>Operating Temperature</b>	0°C to +40°C (32°F to 104°F)
<b>Effect of Temperature</b>	
Zero	< ± 0.0008 ppm / °C
Sensitivity	< ± 5% / °C
<b>Operating Humidity (continuous)</b>	20 – 75% rH
<b>Effect of Humidity</b>	
Zero	Abrupt changes will cause a short term drift
Sensitivity	< ± 1% of measured value / % rH
<b>Operating Pressure</b>	90 - 110kPa
<b>Effect of Position</b>	No effect in typical application
<b>Long Term Drift</b>	
Zero	No drift
Sensitivity	< 5% of measured value / 1 Year
<b>Calibration Gas</b>	Ozone (O <sub>3</sub> )
<b>Challenge Gas (Bump Test)</b>	Nitrogen Dioxide (NO <sub>2</sub> )
<b>Warm Up Time</b>	< 10 minutes
<b>Storage Temperature</b>	+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

#### Cross Sensitivities

Each Midas<sup>®</sup> 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 O <sub>3</sub> )
Carbon Dioxide	CO <sub>2</sub>	20000	0
Chlorine	Cl <sub>2</sub>	1	1.2
Chlorine Dioxide	ClO <sub>2</sub>	1	1.75
Hydrogen Chloride	HCl	9	1.63
Hydrogen Sulphide	H <sub>2</sub> S	25	-15.5 (Transient)
Nitrogen Dioxide	NO <sub>2</sub>	6	2.5
Sulphur Dioxide	SO <sub>2</sub>	10	-3 (Transient)

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