Honeywell

Midas® SENSOR CARTRIDGE SPECIFICATIONS

Ozone (O_3)
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 (ppm)	O_3 0 – 0.7ppm
Minimum Alarm 1 Set Point	0.085ppm
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	0°C to +40°C (32°F to 104°F)
Effect of Temperature	
Zero	< ± 0.0008 ppm / °C
Sensitivity	< ± 5% / °C
Operating Humidity (continuous)	20 – 75% 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)
Challenge Gas (Bump Test)	Nitrogen Dioxide (NO_2)
Warm Up Time	< 10 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

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 O_3)
Carbon Dioxide	CO_2	20000	0
Chlorine	Cl_2	1	1.2
Chlorine Dioxide	ClO_2	1	1.75
Hydrogen Chloride	HCl	9	1.63
Hydrogen Sulphide	H_2S	25	-15.5 (Transient)
Nitrogen Dioxide	NO_2	6	2.5
Sulphur Dioxide	SO_2	10	-3 (Transient)

Find out more

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