



Midas® Sensor Cartridge Specifications

Iso-Propyl-Alcohol (IPA)

MIDAS-X-IPA

Gas Measured	Iso-Propyl-Alcohol (IPA)
Cartridge Part Number	MIDAS-X-IPA 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range	IPA 0 – 800ppm
Minimum Alarm 1 Set Point	100ppm
Lower Detection Limit	90ppm
Linearity	< ± 10% of measured value
Repeatability	< ± 5% of measured value
Resolution	5ppm
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	No effect
Sensitivity	< ± 0.5% of measured value / °C
Operating Humidity	10 to 90% RH
Effect of Humidity	
Zero	No effect
Sensitivity	No effect
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero	< 6.5ppm / year
Sensitivity	< 5% of measured value / year
Calibration Gas	isopropyl alcohol (IPA)
Bump Test Gas	isopropyl alcohol (IPA)
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 Measured	Chemical Formula	Concentration Applied(ppm)	Reading (ppm IPA)
Carbon Monoxide	CO	400	529
Ethanol	C ₂ H ₅ OH	400	965
Ethylene Oxide	C ₂ H ₄ O	400	1203
Iso Propanol	C ₃ H ₇ OH	400	436
Methyl Ethyl Ketone	C ₄ H ₈ O	400	132
Toluene	C ₇ H ₈	400	264

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.

Find out more

www.honeywellanalytics.com
 Korea Tel: +82 (0)2 6909 0300
 Singapore Tel: +65-65803776
 Australia Tel: +61-3-94642770
 Japan Tel: +81-3-6730-7320
 India Tel: +91-124 4752700

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