

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Oxygen (O₂) MIDAS-S-O2X



Gas Measured	Oxygen (O ₂)
Cartridge Part Number	MIDAS-S-O2X 1 year standard warranty MIDAS-E-O2X 2 year extended warranty
Sensor Technology	3 electrode electrochemical cell
Measuring Range (ppm)	O ₂ 0 – 25% v/v
Minimum Alarm 1 Set Point	5% v/v
Lower Detectable Limit (LDL)	5% v/v
Repeatability	< ± 0.04% v/v
Linearity	< ± 0.2% v/v
Response Time t_{92.5}	< 10 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	
Sensitivity	< ± 0.3% of measured value / °C
Operating Humidity (continuous)	15 – 90% rH
Effect of Humidity	
Zero	Follows actual concentration of O ₂ present
Sensitivity	(eg. 20.9% v/v @ 30% rH, 20.04% v/v @ 99% rH / 40°C)
Operating Pressure	70 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero	No drift
Sensitivity	< ± 2.5% of measured value / year
Calibration Gas	Oxygen (O ₂)
Challenge Gas (Bump Test)	Air mixture
Warm Up Time	< 30 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 (% O ₂)
Carbon Dioxide	CO ₂		Enhance O ₂ reading by 0.3% / % CO ₂
Hydrogen	H ₂	100% v/v	-9
Methane	CH ₄	100% v/v	No response
Nitrogen Dioxide	NO ₂	25ppm in air	No response

*Oxygen detection products must only be used to detect oxygen depletion in air

Find out more

www.honeywellanalytics.com

Toll-free: 800.538.0363

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.