



Midas® Sensor Cartridge Specifications

Flammable Group (Propane)

MIDAS-E-LEX, MIDAS-S-LEX

Gas Measured	Propane (C ₃ H ₈)
Cartridge Part Number	MIDAS-S-LEX 1 year extended warranty MIDAS-E-LEX 2 year extended warranty
Sensor Technology	Pellistor (catalytic bead)
Measuring Range	C ₃ H ₈ 0 – 100%LEL
Minimum Alarm 1 Set Point	10%LEL
Lower Detection Limit	4.5%LEL
Linearity	< ± 10% of measured value
Repeatability	< ± 10% of measured value
Resolution	1%LEL
Response Time t_{62.5}	≤ 5 seconds
Sensor Cartridge Life Expectancy	≥ 60 months under typical application conditions
Operating Temperature	0°C to +40°C (32°F to 104°F)
Effect of Temperature	
Zero	< ± 1% fsd
Sensitivity	< ± 3% fsd
Operating Humidity	10 to 90% RH
Effect of Humidity	
Zero	< ± 1% fsd
Sensitivity	< ± 2% fsd
Operating Pressure	90 – 110kPa
Effect of Position	No effect in typical application
Long Term Drift	
Zero	< 3% fsd / year
Sensitivity	< 3% fsd / year
Calibration Gas	Propane(C ₃ H ₈)
Bump Test Gas	Propane(C ₃ H ₈)
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 Measured	Chemical Formula	Concentration Applied(ppm)	Reading (%LEL)
Ammonia	NH ₃	10	0
Carbon Dioxide	CO ₂	10	0
Carbon Monoxide	CO	10	0
Chlorine	Cl ₂	10	0
Ethylene	C ₂ H ₄	1.35%v	43
Hydrogen Chloride	HCl	10	0
Hydrogen Sulfide	H ₂ S	10	0
Iso Propanol	C ₃ H ₇ OH	1.0%v	31
Methane	CH ₄	2.5%v	59
Nitric Oxide	NO	10	0
Nitrogen Dioxide	NO ₂	10	0
Sulfur Dioxide	SO ₂	10	0
Hydrogen	H ₂	2%v	67

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

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