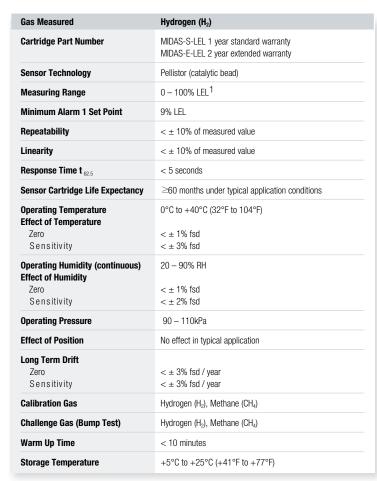


# Midas® SENSOR CARTRIDGE SPECIFICATIONS

## Flammable Group (Hydrogen, Methane) MIDAS-S-LEL, MIDAS-E-LEL



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

It is recommended that the calibration and bump test gas should be the same as measuring gas

#### **Other Detectable Gases**

The following additional gases can be detected with this sensor cartridge. Sensor performance and characteristics will be representative of the data as tabulated above. Consult the Technical Manual to set up the Midas® transmitter with the designated identification code for each of the following gas types.

Detectable Gas	Chemical Formula	Measuring Range	
Methane	CH <sub>4</sub>	0 – 100% LEL <sup>1</sup>	

#### **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 (% LEL)
Ammonia	NH <sub>3</sub>	10	0
Carbon Dioxide	CO <sub>2</sub>	10	0
Carbon Monoxide	CO	10	0
Chlorine	Cl <sub>2</sub>	10	0
Ethylene	C <sub>2</sub> H <sub>4</sub>	1.35%v	43
Hydrogen Chloride	HCI	10	0
Hydrogen Sulphide	H <sub>2</sub> S	10	0
Iso Propanol	C <sub>3</sub> H <sub>7</sub> OH	1.0%v	31
Methane	CH <sub>4</sub>	2.5%v	55
Nitric Oxide	NO	10	0
Nitrogen Dioxide	$NO_2$	10	0
Propane	C <sub>3</sub> H <sub>8</sub>	1.0%v	35
Sulphur Dioxide	SO <sub>2</sub>	10	0
Acetylene	C <sub>2</sub> H <sub>2</sub>	1.2	26

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