

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Flammable Group (n-Butane) MIDAS-E-LEB



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|---|--|
| Gas Measured | n-Butane (n-C ₄ H ₁₀) |
| Cartridge Part Number | MIDAS-E-LEB 2 year extended warranty |
| Sensor Technology | Pellistor (catalytic bead) |
| Measuring Range | 0 – 100% LEL ¹ |
| Minimum Alarm 1 Set Point | 9% LEL |
| Repeatability | < ± 10% of measured value |
| Linearity | < ± 10% of measured value |
| Response Time t62.5 | < 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 Sensitivity | < ± 1% fsd < ± 3% fsd |
| Operating Humidity(continuous) | 20 – 90% RH |
| Effect of Humidity | |
| Zero Sensitivity | < ± 1% fsd < ± 2% fsd |
| Operating Pressure | 90 - 110kPa |
| Effect of Position | No effect in typical application |
| Long Term Drift | |
| Zero Sensitivity | < ± 3% fsd / year < ± 3% fsd / year |
| Calibration Gas | n-Butane (n-C ₄ H ₁₀) |
| Challenge Gas (Bump Test) | n-Butane (n-C ₄ H ₁₀) |
| 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

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

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 ₃ | 10 | 0 |
| Carbon Dioxide | CO ₂ | 10 | 0 |
| Carbon Monoxide | CO | 10 | 0 |
| Chlorine | Cl ₂ | 10 | 0 |
| Ethylene | C ₂ H ₄ | 0.675%v | 43 |
| Hydrogen | H ₂ | 1%v | 67 |
| Hydrogen Chloride | HCl | 10 | 0 |
| Hydrogen Sulphide | H ₂ S | 10 | 0 |
| Iso Propanol | C ₃ H ₇ OH | 0.5%v | 31 |
| Methane | CH ₄ | 1.25%v | 59 |
| Nitric Oxide | NO | 10 | 0 |
| Nitrogen Dioxide | NO ₂ | 10 | 0 |
| Sulphur Dioxide | SO ₂ | 10 | 0 |

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www.honeywellanalytics.com
Toll-free: 800.538.0363

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