

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Oxygen (O₂) MIDAS-L-O2S



| Gas Measured | Oxygen (O ₂) |
|---|--|
| Cartridge Part Number | MIDAS-L-O2S 3 year warranty |
| Sensor Technology | 3 electrode electrochemical cell |
| Measuring Range (ppm) | O ₂ 0 – 25% v/v |
| Minimum Alarm 1 Set Point | 5% v/v |
| Repeatability | < ± 0.1% v/v |
| Linearity | < ± 0.2% v/v |
| Response Time t_{92.5} | < 10 seconds |
| Sensor Cartridge Life Expectancy | ≥ 36 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 | <5% signal loss over operating life |
| 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 |

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