

Midas[®] SENSOR CARTRIDGE SPECIFICATIONS

Ammonia (NH₃) MIDAS-S-NH3, MIDAS-E-NH3



| Gas Measured | Ammonia (NH ₃) |
|---|--|
| Cartridge Part Number | MIDAS-S-NH3 1 year standard warranty MIDAS-E-NH3 2 year extended warranty |
| Sensor Technology | 3 electrode electrochemical cell |
| Measuring Range (ppm) | NH ₃ 0 – 100ppm |
| Minimum Alarm 1 Set Point | 12.5ppm |
| Repeatability | < ± 5% of measured value |
| Linearity | < ± 2% of measured value |
| 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 | < ± 0.1ppm / °C |
| Zero | < ± 1% of measured value / °C (0°C to 25°C) |
| Sensitivity | < ± 0.2% of measured value / °C (25°C to 40°C) |
| Operating Humidity (continuous) | 15 – 90% rH |
| Effect of Humidity | |
| Zero | TBA |
| Sensitivity | TBA |
| Operating Pressure | 90 – 110kPa |
| Effect of Position | No effect in typical application |
| Long Term Drift | |
| Zero | TBA |
| Sensitivity | < ± 3% of measured value / 6 months |
| Calibration Gas | Ammonia (NH ₃) |
| Challenge Gas (Bump Test) | Ammonia (NH ₃) |
| 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.

Note: Extended exposure to background concentrations of ammonia may shorten life time of sensor.

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 (ppm NH ₃) |
|-------------------|----------------------------------|-----------------------------|--------------------------------|
| Arsine | AsH ₃ | 0.2 | 0.07 |
| Carbon Dioxide | CO ₂ | 5000 | 0 |
| Carbon Monoxide | CO | 100 | 0 |
| Chlorine | Cl ₂ | 1 | 0 |
| Ethanol | C ₂ H ₅ OH | 1000 | 0 |
| Hydrogen | H ₂ | 10000 | 0 |
| Hydrogen Chloride | HCl | 10 | -4 |
| Hydrogen Sulphide | H ₂ S | 20 | 2 |
| Iso Propanol | C ₃ H ₇ OH | 1000 | 0 |
| Methanol | CH ₃ OH | 1000 | 0 |
| Nitrogen Dioxide | NO ₂ | 10 | -0.5 |
| Phosphine | PH ₃ | 300 | 0 |
| Sulphur Dioxide | SO ₂ | 20 | -40 |

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

www.honeywellanalytics.com

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