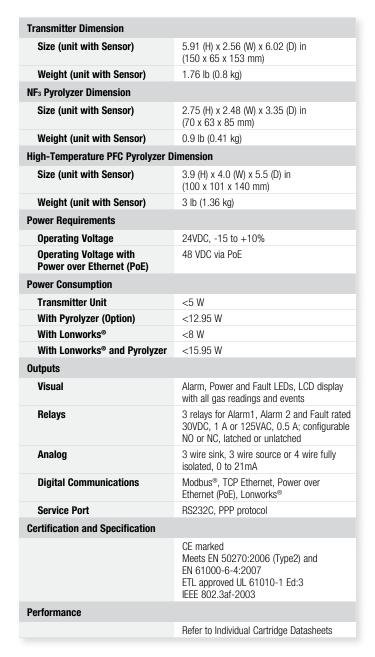
## Honeywell

## Midas<sup>®</sup> gas detector specifications

## **Gas Monitoring System**





| Transport System                        |   |  |  |  |
|---|---|--|--|--|
| Flow Rate                               | 500 mL/min  |  |  |  |
| Transport Time                          | 2 to 30 seconds maximum   |  |  |  |
| Sample Line Tubing                      | 0.125 in ID x 0.25 in OD  |  |  |  |
| Tubing Length                           | Up to 100 ft (30 m) with FEP tubing   |  |  |  |
| Exhaust Line Tubing                     | 0.25 in ID x 0.375 in OD  |  |  |  |
| Exhaust Length                          | Up to 100 ft (30m)  |  |  |  |
| Ambient Point                           | In line air filter required   |  |  |  |
| Operating Temperature                   |   |  |  |  |
| Unit with Sensor                        | 32° to 104°F (0° to 40°C)   |  |  |  |
| Unit with Sensor and Pyrolyzer          | 32° to 86°F (0° to 30°C)  |  |  |  |
| Wiring Requirement                      |   |  |  |  |
| 4-20mA                                  | 2 wire, 14 AWG maximum  |  |  |  |
| Digital                                 | CAT5 Cable or equivalent; RJ45 connector  |  |  |  |
| Gas Concentration Display and Interface |   |  |  |  |
| Instrument                              | 4-digit alphanumeric display with separate units, flow rate bar graph and other icon driven indicators. 4 button interface keypad |  |  |  |
| Remote                                  | Option for PC / PDA Internet browser access via Ethernet  |  |  |  |
| Warranty                                |   |  |  |  |
| Transmitter Unit                        | 1 year  |  |  |  |
| Sensor cartridge                        | 1 year standard, 2 years extended warranty  |  |  |  |
| Expected Pyrolyzer Life                 | MIDAS-T-00P: 1 year<br>MIDAS-T-0P3: 2 years   |  |  |  |
| Installation Details                    |   |  |  |  |
| Mounting                                | Wall mounted using pre-drilled holes on<br>chassis. Options for DIN rail or vertical<br>bracket mounting.                         |  |  |  |
| Remote                                  | Cover: Painted steel<br>Chassis/Mounting Bracket: Zinc plated steel   |  |  |  |

| Midas Cartridge Detectable Gases  |                                   |               |                    |  |
|-----------------------------------|-----------------------------------|---------------|--------------------|--|
| Gas Name                          | Chemical Formula                  | Range         | Sensor Part Number |  |
| Ammonia                           | NH <sub>3</sub>                   | 9-100 ppm     | MIDAS-E-NH3        |  |
| Arsine                            | AsH <sub>3</sub>                  | 18-200 ppb    | MIDAS-E-ASH        |  |
| Boron Trichloride                 | BCI <sub>3</sub>                  | 0.72-8 ppm    | MIDAS-E-HCL        |  |
| Boron Trifluoride                 | BF <sub>3</sub>                   | 0.72-8 ppm    | MIDAS-E-XFH        |  |
| Boron Trifluoride (Low Level)     | BF <sub>3</sub>                   | 0.18-2 ppm    | MIDAS-E-HFL        |  |
| Bromine                           | Br <sub>2</sub>                   | 0.036-0.4 ppm | MIDAS-E-BR2        |  |
| Carbon Dioxide                    | CO <sub>2</sub>                   | 0.15-2.0%     | MIDAS-E-CO2        |  |
| Carbon Monoxide                   | CO                                | 9-100 ppm     | MIDAS-E-COX        |  |
| Chlorine                          | Cl <sub>2</sub>                   | 0.18-2 ppm    | MIDAS-E-HAL        |  |
| Chlorine Dioxide                  | CIO <sub>2</sub>                  | 0.036-0.4 ppm | MIDAS-E-BR2        |  |
| Diborane                          | B <sub>2</sub> H <sub>6</sub>     | 36-400 ppb    | MIDAS-E-B2H        |  |
| Dichlorosilane                    | H <sub>2</sub> Cl <sub>2</sub> Si | 0.72-8 ppm    | MIDAS-E-HCL        |  |
| Difluoromethane**                 | CH <sub>2</sub> F <sub>2</sub>    | 16-240 ppm    | MIDAS-E-XCF        |  |
| Disilane                          | Si <sub>2</sub> H <sub>6</sub>    | 1.8-20 ppm    | MIDAS-E-SHX        |  |
| Fluorine                          | F <sub>2</sub>                    | 0.36-4 ppm    | MIDAS-E-HAL        |  |
| Germane                           | GeH <sub>4</sub>                  | 70-800 ppb    | MIDAS-E-ASH        |  |
| Hexafluorobutadiene**             | $C_4F_6$                          | 3-40 ppm      | MIDAS-E-CFX        |  |
| Hydrogen (%LEL)                   | H <sub>2</sub>                    | 6.5-100% LEL  | MIDAS-E-LEL*       |  |
| Hydrogen (ppm)                    | H <sub>2</sub>                    | 90-1000 ppm   | MIDAS-E-H2X        |  |
| Hydrogen Bromide                  | HBr                               | 0.72-8 ppm    | MIDAS-E-HCL        |  |
| Hydrogen Chloride                 | HCI                               | 0.72-8 ppm    | MIDAS-E-HCL        |  |
| Hydrogen Cyanide                  | HCN                               | 1.8-20 ppm    | MIDAS-E-HCN        |  |
| Hydrogen Fluoride                 | HF                                | 1.05-12 ppm   | MIDAS-E-HFX        |  |
| Hydrogen Fluoride (Low Level)     | HFL                               | 0.18-2 ppm    | MIDAS-E-HFL        |  |
| Hydrogen Sulfide                  | H <sub>2</sub> S                  | 3.6-40 ppm    | MIDAS-E-H2S        |  |
| Methane (%LEL)                    | CH <sub>4</sub>                   | 6.5-100% LEL  | MIDAS-E-LEL*       |  |
| Methyl Fluoride**                 | CH <sub>3</sub> F                 | 8-120 ppm     | MIDAS-E-CFX        |  |
| Nitric Oxide                      | NO                                | 9-100 ppm     | MIDAS-E-NOX        |  |
| Nitrogen Dioxide                  | NO <sub>2</sub>                   | 1.05-12 ppm   | MIDAS-E-NO2        |  |
| Nitrogen Trifluoride**            | NF <sub>3</sub>                   | 3.6-40 ppm    | MIDAS-E-HFX        |  |
| Octofluorocyclopentene**          | C <sub>5</sub> F <sub>8</sub>     | 3-40 ppm      | MIDAS-E-CFX        |  |
| Oxygen                            | $O_2$                             | 0.2-25% v/v   | MIDAS-E-O2X        |  |
| Ozone                             | O <sub>3</sub>                    | 0.065-0.7 ppm | MIDAS-E-03H        |  |
| Ozone (Low Level)                 | O <sub>3</sub>                    | 0.036-0.4 ppm | MIDAS-E-O3X        |  |
| Phosphine                         | PH <sub>3</sub>                   | 110-1200 ppb  | MIDAS-E-PH3        |  |
| Silane                            | SiH <sub>4</sub>                  | 1.8-20 ppm    | MIDAS-E-SHX        |  |
| Silane (Low Level)                | SiH <sub>4</sub>                  | 0.18-2 ppm    | MIDAS-E-SHL        |  |
| Sulfur Dioxide                    | SO <sub>2</sub>                   | 0.7-8 ppm     | MIDAS-E-SO2        |  |
| Tetra Ethyl Ortho Silicate        | TEOS                              | 3.6-40 ppm    | MIDAS-E-TEO        |  |
| Tungsten Hexafluoride             | WF <sub>6</sub>                   | 1.05-12 ppm   | MIDAS-E-HFX        |  |
| Tungsten Hexafluoride (Low Level) | WF <sub>6</sub>                   | 0.18-2 ppm    | MIDAS-E-HFL        |  |

<sup>\*</sup>MIDAS-E-LEL Cartridge carries a 2-year warranty but can be calibrated up to 5 years

Midas detectors are not ETL approved for monitoring in or sampling from classified areas above 25% LEL

<sup>\*\*</sup> Gases require Midas Pyrolyzer



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

**:::** UK Office Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399 Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.