

## Midas<sup>®</sup> GAS DETECTOR SPECIFICATIONS

### Gas Monitoring System



| Transmitter Dimension                            |   |
|--|---|
| Size (unit with Sensor)                          | 5.91 (H) × 2.56 (W) × 6.02 (D) in<br>(150 × 65 × 153 mm)  |
| Weight (unit with Sensor)                        | 1.76 lb (0.8 kg)  |
| NF <sub>3</sub> Pyrolyzer Dimension              |   |
| Size (unit with Sensor)                          | 2.75 (H) × 2.48 (W) × 3.35 (D) in<br>(70 × 63 × 85 mm)  |
| Weight (unit with Sensor)                        | 0.9 lb (0.41 kg)  |
| High-Temperature PFC Pyrolyzer Dimension         |   |
| Size (unit with Sensor)                          | 3.9 (H) × 4.0 (W) × 5.5 (D) in<br>(100 × 101 × 140 mm)  |
| Weight (unit with Sensor)                        | 3 lb (1.36 kg)  |
| OP3 Pyrolyzer Dimension                          |   |
| Size (unit with Sensor)                          | 5.2 (H) × 2.4 (W) × 3.9 (D) in<br>(132 × 60 × 98 mm)  |
| Weight (unit with Sensor)                        | 2.65 lb (1.20 kg)   |
| NP1 Pyrolyzer Dimension                          |   |
| Size (unit with Sensor)                          | 5.02 (H) × 2.56 (W) × 5.29 (D) in<br>(128 × 65 × 134 mm)  |
| Weight (unit with Sensor)                        | 1.8 lb (0.81 kg)  |
| Power Requirements                               |   |
| Operating Voltage                                | 24VDC, -15 to +10%  |
| Operating Voltage with Power over Ethernet (PoE) | 48 VDC via PoE  |
| Power Consumption                                |   |
| Transmitter Unit                                 | <5 W  |
| With Pyrolyzer (Option)                          | <12.95 W  |
| With Lonworks <sup>®</sup>                       | <8 W  |
| With Lonworks <sup>®</sup> and Pyrolyzer         | <15.95 W  |
| Outputs  |   |
| Visual   | Alarm, Power and Fault LEDs, LCD display with all gas readings and events   |
| Relays   | 3 relays for Alarm1, Alarm 2 and Fault rated 30VDC, 1 A or 125VAC, 0.5 A; configurable NO or NC, latched or unlatched |
| Analog   | 3 wire sink, 3 wire source or 4 wire fully isolated, 0 to 21mA  |
| Digital Communications                           | Modbus <sup>®</sup> , TCP Ethernet, Power over Ethernet (PoE), Lonworks <sup>®</sup>                                  |
| Service Port                                     | RS232C, PPP protocol  |

| Certification and Specification         |   |
|---|---|
|   | CE marked<br>Meets EN 50270:2006 (Type2) and EN 61000-6-4:2007<br>ETL approved UL 61010-1 Ed:3<br>IEEE 802.3af-2003               |
| Performance                             |   |
|   | Refer to Individual Cartridge Datasheets  |
| Transport System                        |   |
| Flow Rate                               | 500 mL/min  |
| Transport Time                          | 2 to 30 seconds maximum   |
| Sample Line Tubing                      | 0.125 in ID × 0.25 in OD  |
| Tubing Length                           | Up to 100 ft (30 m) with FEP tubing   |
| Exhaust Line Tubing                     | 0.25 in ID × 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-NP1: 2 years   |
| Installation Details                    |   |
| Mounting                                | Wall mounted using pre-drilled holes on chassis. Options for DIN rail or vertical bracket mounting.                               |
| Remote                                  | Cover: Painted steel<br>Chassis/Mounting Bracket: Zinc plated steel   |

Find out more  
[www.honeywellanalytics.com](http://www.honeywellanalytics.com)  
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**Please Note:**

While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions. Data may change, as well as legislation, and you are strongly advised to obtain copies of the most recently issued regulations, standards, and guidelines. This publication is not intended to form the basis of a contract.

## Transmitter Dimension

| Gas Name  | Chemical Formula                             | Range      | Sensor Part Number               |
|---|--|------------|----------------------------------|
| Ammonia   | NH <sub>3</sub>                              | 0-100 ppm  | MIDAS-E-NH3                      |
| Arsine  | AsH <sub>3</sub>                             | 0-200 ppb  | MIDAS-E-ASH                      |
| Boron Trichloride                                 | BCl <sub>3</sub>                             | 0-8 ppm    | MIDAS-E-HCL                      |
| Boron Trifluoride                                 | BF <sub>3</sub>                              | 0-8 ppm    | MIDAS-E-HFX                      |
| Boron Trifluoride (Low Level)                     | BF <sub>3</sub>                              | 0-2 ppm    | MIDAS-E-HFL                      |
| Bromine   | Br <sub>2</sub>                              | 0-0.4 ppm  | MIDAS-E-BR2                      |
| Butane  | n-C <sub>4</sub> H <sub>10</sub>             | 0~100 %LEL | MIDAS-E-LEB                      |
| Carbon Dioxide                                    | CO <sub>2</sub>                              | 0-2.0%     | MIDAS-E-CO2                      |
| Carbon Monoxide                                   | CO   | 0-100 ppm  | MIDAS-E-COX                      |
| Carbon Monoxide (Low H <sub>2</sub> interference) | CO   | 0-100 ppm  | MIDAS-E-COH                      |
| Chlorine  | Cl <sub>2</sub>                              | 0-2 ppm    | MIDAS-E-HAL                      |
| Chlorine Dioxide                                  | ClO <sub>2</sub>                             | 0-0.4 ppm  | MIDAS-E-BR2                      |
| Diborane  | B <sub>2</sub> H <sub>6</sub>                | 0-400 ppb  | MIDAS-E-B2H                      |
| Dichlorosilane                                    | H <sub>2</sub> Cl <sub>2</sub> Si            | 0-8 ppm    | MIDAS-E-HCL                      |
| Difluoromethane**                                 | CH <sub>2</sub> F <sub>2</sub>               | 0-240 ppm  | MIDAS-E-XCF                      |
| Disilane  | Si <sub>2</sub> H <sub>6</sub>               | 0-20 ppm   | MIDAS-E-SHX                      |
| Ethylene  | C <sub>2</sub> H <sub>4</sub>                | 0-100 %LEL | MIDAS-E-LEL                      |
| Fluorine  | F <sub>2</sub>                               | 0-4 ppm    | MIDAS-E-HAL                      |
| Germane   | GeH <sub>4</sub>                             | 0-800 ppb  | MIDAS-E-ASH                      |
| Hexafluorobutadiene**                             | C <sub>4</sub> F <sub>6</sub>                | 0-40 ppm   | MIDAS-E-CFX                      |
| Hydrogen (%LEL)                                   | H <sub>2</sub>                               | 0~100 %LEL | MIDAS-E-LEL*                     |
| Hydrogen (ppm)                                    | H <sub>2</sub>                               | 0-1000 ppm | MIDAS-E-H2X                      |
| Hydrogen Bromide                                  | HBr  | 0-8 ppm    | MIDAS-E-HCL                      |
| Hydrogen Chloride                                 | HCl  | 0-8 ppm    | MIDAS-E-HCL                      |
| Hydrogen Cyanide                                  | HCN  | 0-20 ppm   | MIDAS-E-HCN                      |
| Hydrogen Fluoride                                 | HF   | 0-12 ppm   | MIDAS-E-HFX                      |
| Hydrogen Fluoride (Low Level)                     | HFL  | 0-2 ppm    | MIDAS-E-HFL                      |
| Hydrogen Sulfide                                  | H <sub>2</sub> S                             | 0-40 ppm   | MIDAS-E-H2S                      |
| Methane (%LEL)                                    | CH <sub>4</sub>                              | 0~100 %LEL | MIDAS-E-LEL*                     |
| Methyl Fluoride**                                 | CH <sub>3</sub> F                            | 0-120 ppm  | MIDAS-E-XHF                      |
| Nitric Oxide                                      | NO   | 0-100 ppm  | MIDAS-E-NOX                      |
| Nitrogen Dioxide                                  | NO <sub>2</sub>                              | 0-12 ppm   | MIDAS-E-NO2                      |
| Nitrogen Trifluoride**                            | NF <sub>3</sub>                              | 0-40 ppm   | MIDAS-E-HFX for 00P, XHF for NP1 |
| Octane  | n-C <sub>8</sub> H <sub>18</sub>             | 0~100 %LEL | MIDAS-E-LEO                      |
| Octafluorocyclopentene**                          | C <sub>5</sub> F <sub>8</sub>                | 0-40 ppm   | MIDAS-E-XCF                      |
| Oxygen  | O <sub>2</sub>                               | 0~25% v/v  | MIDAS-E-O2X                      |
| Ozone   | O <sub>3</sub>                               | 0-0.7 ppm  | MIDAS-E-O3H                      |
| Ozone (Low Level)                                 | O <sub>3</sub>                               | 0-0.4 ppm  | MIDAS-E-O3X                      |
| Phosphine   | PH <sub>3</sub>                              | 0-1200 ppb | MIDAS-E-PH3                      |
| Propane   | C <sub>3</sub> H <sub>8</sub>                | 0~100 %LEL | MIDAS-E-LEX                      |
| Propylene   | C <sub>3</sub> H <sub>6</sub>                | 0~100 %LEL | MIDAS-E-LEL                      |
| R134a   | C <sub>2</sub> H <sub>2</sub> F <sub>4</sub> | 0-1000 ppm | MIDAS-E-XCF                      |
| Silane  | SiH <sub>4</sub>                             | 0-20 ppm   | MIDAS-E-SHX                      |
| Silane (Low Level)                                | SiH <sub>4</sub>                             | 0-2 ppm    | MIDAS-E-SHL                      |
| Sulfur Dioxide                                    | SO <sub>2</sub>                              | 0-8 ppm    | MIDAS-E-SO2                      |
| Tetra Ethyl Ortho Silicate                        | TEOS   | 0-40 ppm   | MIDAS-E-TEO                      |
| Tungsten Hexafluoride                             | WF <sub>6</sub>                              | 0-12 ppm   | MIDAS-E-HFX                      |
| Tungsten Hexafluoride (Low Level)                 | WF <sub>6</sub>                              | 0-2 ppm    | MIDAS-E-HFL                      |

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

\*\* Gases require Midas Pyrolyzer

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

### Find out more

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