

## 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)  
 Toll-free: 800.538.0363

**Please Note:**

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## 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

[www.honeywellanalytics.com](http://www.honeywellanalytics.com)

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