MIDAS GAS MONITORING SYSTEM

GAS DETECTOR SPECIFICATIONS		
Transmitter dimension		
Size (unit with Sensor)	$5.91 \text{ (H)} \times 2.56 \text{ (W)} \times 6.02 \text{ (D)} \text{ in}$ (150 × 65 × 153 mm)	
Weight (unit with Sensor)	1.76 lb (0.8 kg)	
NF3 Pyrolyzer Dimension		
Size (unit with Sensor)	2.75 (H) × 2.48 (W) × 3.35 (D) in (70 × 63 × 85 mm)	
Weight (unit with Sensor)	0.9 lb (0.41 kg)	
High-Temperature PFC Pyrolyzer Dimension		
Size (unit with Sensor)	$3.9 \text{ (H)} \times 4.0 \text{ (W)} \times 5.5 \text{ (D)} \text{ in}$ $(100 \times 101 \times 140 \text{ mm})$	
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 (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 (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®	<8 W	
With Lonworks® and Pyrolyzer	<15.95 W	
Outputs		
Visual	Alarm, Power and Fault LEDs, LCD display with all gas readings and events	
Relays	3 relays for Alarm 1, 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®, TCP Ethernet, Power over Ethernet (PoE), Lonworks®	
Service Port	RS232C, PPP protocol	



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Certification and Specification		
	CE marked Meets EN 50270:2006 (Type2) and EN 61000-6-4:2007 ETL approved UL 61010-1 Ed:3 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 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 Chassis/Mounting Bracket: Zinc plated steel	

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

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GAS NAME	CHEMICAL FORMULA	RANGE	SENSOR PART NUMBER
Ammonia	NH ₃	0-100 ppm	MIDAS-E-NH3
Arsine	AsH ₃	0-200 pph	MIDAS-E-ASH
Boron Trichloride	-	0-200 ррв	MIDAS-E-HCL
Boron Trifluoride	BCl ₃		
Boron Trifluoride (Low Level)	BF ₃	0-8 ppm	MIDAS-E-HFX
	BF ₃	0-2 ppm	MIDAS-E-HFL MIDAS-E-BR2
Bromine		0-0.4 ppm	
Butane	n-C ₄ H ₁₀	0~100 %LEL	MIDAS-E-LEB
Carbon Dioxide	CO ₂	0-2.0%	MIDAS-E-CO2
Carbon Monoxide	CO	0-100 ppm	MIDAS-E-COX
Carbon Monoxide (Low H ₂ interference)	CO	0-100 ppm	MIDAS-E-COH
Chlorine	Cl_2	0-2 ppm	MIDAS-E-HAL
Chlorine Dioxide	ClO ₂	0-0.4 ppm	MIDAS-E-BR2
Diborane	B ₂ H ₆	0-400 ppb	MIDAS-E-B2H
Dichlorosilane	H ₂ Cl ₂ Si	0-8 ppm	MIDAS-E-HCL
Difluoromethane**	CH ₂ F ₂	0-240 ppm	MIDAS-E-XCF
Disilane	Si ₂ H ₆	0-20 ppm	MIDAS-E-SHX
Ethylene	C ₂ H ₄	0~100 %LEL	MIDAS-E-LEL
Fluorine	F ₂	0-4 ppm	MIDAS-E-HAL
Germane	GeH ₄	0-800 ppb	MIDAS-E-ASH
Hexafluorobutadiene**	C_4F_6	0-40 ppm	MIDAS-E-CFX
Hydrogen (%LEL)	H ₂	0~100 %LEL	MIDAS-E-LEL*
Hydrogen (ppm)	H ₂	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	H₂S	0-40 ppm	MIDAS-E-H2S
Methane (%LEL)	CH ₄	0~100 %LEL	MIDAS-E-LEL*
Methyl Fluoride**	CH₃F	0-120 ppm	MIDAS-E-XHF
Nitric Oxide	NO	0-100 ppm	MIDAS-E-NOX
Nitrogen Dioxide	NO ₂	0-12 ppm	MIDAS-E-NO2
Nitrogen Trifluoride**	NF ₃	0-40 ppm	MIDAS-E-HFX for OOP, XHF for NP3
Octane	n-C ₈ H ₁₈	0~100 %LEL	MIDAS-E-LEO
Octofluorocyclopentene**	C ₅ F ₈	0-40 ppm	MIDAS-E-XCF
		0-40 ppm 0~25% v/v	
Oxygen	02		MIDAS-E-02X
Ozone	03	0-0.7 ppm	MIDAS-E-03H
Ozone (Low Level)	03	0-0.4 ppm	MIDAS-E-03X
Phosphine	PH ₃	0-1200 ppb	MIDAS-E-PH3
Propane	C ₃ H ₈	0~100 %LEL	MIDAS-E-LEX
Propylene	C ₃ H ₆	0~100 %LEL	MIDAS-E-LEL
R134a	$C_2H_2F_4$	0-1000 ppm	MIDAS-E-XCF
Silane	SiH ₄	0-20 ppm	MIDAS-E-SHX
Silane (Low Level)	SiH ₄	0-2 ppm	MIDAS-E-SHL
Sulfur Dioxide	SO ₂	0-8 ppm	MIDAS-E-S02
Tetra Ethyl Ortho Silicate	TEOS	0-40 ppm	MIDAS-E-TEO
Tungsten Hexafluoride	WF ₆	0-12 ppm	MIDAS-E-HFX
Tungsten Hexafluoride (Low Level)	WF ₆	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

 ${\sf Midas\ detectors\ are\ not\ ETL\ approved\ for\ monitoring\ in\ or\ sampling\ from\ classified\ areas\ above\ 25\%\ LEL}$

For more information

automation.honeywell.com

Honeywell Process Measurement and Control

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