MIDAS
GAS MONITORING SYSTEM

GAS DETECTOR SPECIFICATIONS	
Transmitter dimension	
Size (unit with Sensor)	5.91 (H) × 2.56 (W) × 6.02 (D) 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 (H) × 4.0 (W) × 5.5 (D) in (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 (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 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®, TCP Ethernet, Power over Ethernet (PoE), Lonworks®
Service Port	RS232C, PPP protocol

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GAS DETECTOR SPECIFICATIONS	
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

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Australian Distributor

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TRANSMITTER DIMENSION			
GAS NAME	**CHEMICAL FORMULA**	**RANGE**	**SENSOR PART NUMBER**
Ammonia	NH_3	0-100 ppm	MIDAS-E-NH3
Arsine	AsH_3	0-200 ppb	MIDAS-E-ASH
Boron Trichloride	BCl_3	0-8 ppm	MIDAS-E-HCL
Boron Trifluoride	BF_3	0-8 ppm	MIDAS-E-HFX
Boron Trifluoride (Low Level)	BF_3	0-2 ppm	MIDAS-E-HFL
Bromine	Br2	0-0.4 ppm	MIDAS-E-BR2
Butane	n-C_4H_{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_2H_6	0-400 ppb	MIDAS-E-B2H
Dichlorosilane	H_2Cl_2Si	0-8 ppm	MIDAS-E-HCL
Difluoromethane**	CH_2F_2	0-240 ppm	MIDAS-E-XCF
Disilane	Si_2H_6	0-20 ppm	MIDAS-E-SHX
Ethylene	C_2H_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	H_2S	0-40 ppm	MIDAS-E-H2S
Methane (%LEL)	CH_4	0~100 %LEL	MIDAS-E-LEL*
Methyl Fluoride**	CH_3F	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 NP1
Octane	n-C_8H_{18}	0~100 %LEL	MIDAS-E-LEO
Octofluorocyclopentene**	C_5F_8	0-40 ppm	MIDAS-E-XCF
Oxygen	O_2	0~25% v/v	MIDAS-E-O2X
Ozone	O_3	0-0.7 ppm	MIDAS-E-O3H
Ozone (Low Level)	O_3	0-0.4 ppm	MIDAS-E-O3X
Phosphine	PH_3	0-1200 ppb	MIDAS-E-PH3
Propane	C_3H_8	0~100 %LEL	MIDAS-E-LEX
Propylene	C_3H_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-SO2
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

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

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