

GASMAX MX Gas Monitor

Single Channel Battery-Powered Wireless Gas Monitor for Hazardous Locations

- * Complete CSA, ATEX and IECEx certifications for hazardous area
- * Supports electrochemical, infrared and photoionization (PID) sensors
- * Graphic display shows reading, alarm and fault conditions
- * Supports both local and remote sensors for easy installation
- * Automated calibration with programmable cal gas
- * Power-up and post-calibration delays eliminate false alarms
- * Three pushbutton / magnetic switches for easy field setup
- * Options for both 900 MHz and 2.4 GHz radios
- * Dual Lithium-Thionyl 19AH batteries for long sensor life
- * Adjustable background gas setting extend battery life
- * QPS Explosion-Proof / Flame-Proof certification for certain gases
- * Setup in hazardous area requires only simple magnetic wand
- * Manufactured in USA

The GASMAX MX gas monitor is an ideal solution for wireless ambient gas detection applications. The monitor is designed to detect a wide range of toxic gases and volatile organic compounds in potentially hazardous environments. The monitor utilizes two internal non-rechargeable 19AH Lithium-Thionyl batteries that provide up to two year operation for electrochemical sensors and up to one year for low power infrared sensors. Both 900 MHz and 2.4 GHz radios are available to support both North America and International installations.

Wide Variety of Available Sensors

The GASMAX GX supports both local and remote electrochemical, infrared or PID sensors. Due to their power consumption, PID sensors have a much shorter battery life and should be considered for temporary installations only. Several electrochemical sensors, including hydrogen sulfide and ammonia, are available in low, medium and high ranges.

Non-Intrusive User Interface

The GASMAX MX features both push-buttons and non-intrusive magnetic switches that allow complete system configuration, regular calibration and product maintenance to be performed in the field without compromising the explosion-proof rating. The display screen always shows the current calibrated level of gas present at the sensor.



Remote Sensor Options

The GASMAX MX supports both local and remote electrochemical and low power infrared sensors. Electrochemical sensors can be used for distances of up to 100' and infrared sensors 40' from the monitor.

Certifications

The GASMAX MX is CSA, ATEX and IECEx certified for use in hazardous areas and is ideal for power plants, refineries, tank farms, chemical plants, compressor stations, pipelines and other industrial installations where fixed gas detection is required for user safety and equipment protection.

Please contact GDS Corp to discuss application details or to obtain a quote for monitors or complete gas detection systems.



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GASMAX MX SPECIFICATIONS	
Power Source	Dual 3.6V 19 AH Lithium-Thionyl Battery, Non-rechargeable
Battery Life	2 Years (EC Sensor), 1 Year (IR Sensor), 14 days (PID Sensor)
Display	102x64 resolution graphical LCD transfective (sunlight readable) screen with white LED backlight
User Interface	Three manual push buttons (Menu, Add, Sub) and three corresponding magnetic non-intrusive switches for setup in hazardous areas User-programmable background gas setting ³
Sensor Input	Electrochemical, infrared or PID sensors
Alarm Settings	Two user-adjustable alarm settings
900 MHz Radio	Output power 200 mW nominal 52 Network Options 255 Addresses per Network
2.4 GHz Radio	Output power 125 mW nominal 78 Network Selections (2.4 GHz) 255 Addresses per Network
Operating Temperature	Electronics -20°C to +60°C; Sensor limits may restrict operating temperature
Housing	Aluminum instrument housing, 303 Stainless Steel sensor housing
Dimensions	8.3" W x 18" H x 5.3" D 6 lbs
Certifications	CSA Class I Division 1 Groups C and D, Ex d IIB T6 Gb Class I Zone 1, AEx db IIB T6 Gb Tamb= -40C to +54C ATEX EX II 2 (1) G Ex db mb IIB ia [ia Ga] T6 Gb Ta= -40C to +54C IECEX Ex db mb ia [ia Ga] IIB T6 Gb Ta = -40C to +54C
Hardware Warranty	One-year limited warranty
Battery Warranty	90 days from ship date
Sensor Warranty	Varies with gas type (warranty subject to verification by GDS Corp)

GASMAX MX Order Guide	
GM/MX-HEAD-LEN-SEN-RNG/OPT1-OPT2-OPT3 [SS][TAG][CAL]	
HEAD	1 = Local Sensor (all types) 2 = Remote Electrochemical (EC) Sensor 3 = Remote Infrared (IR) Sensor
LEN	Max length determined by sensor type: Electrochemical sensors up to 100' Infrared sensors up to 40' PID sensors up to 30'
SEN	Select sensor type from list below: 10-42 Toxic Sensors 50-53 Infrared Sensors 61-64 Photoionization Sensors (PID)
RNG	For available ranges see GDS Configurator
OPT1	0 = 900 MHz Radio 1 = 2.4 GHz Radio
OPT2	0 = None 1 = Sensor Splash Guard 2 = Sensor Flow Cell
OPT3	0 = For Class C & D Only Hazardous Areas 1 = For Class B, C & D Hazardous Areas
	[SS] = Stainless steel enclosure [TAG] = Stainless steel tag [CAL] = Ships with calibration adapter

NOTES	
Note 1: Units with sensors for reactive gases* are not certified for use in hazardous areas	
Note 2: Maximum distance for remote IR sensors is 40 feet or less	
Note 3: RF Transmission rate increases once background gas setting exceeded	

EC SENSORS		EC SENSORS		PID SENSORS	
10	Oxygen (O2), 0-25%	28	Nitric Oxide (NO), 0-250 ppm	61	PID Isobutylene (10.6eV) Low range
11	Carbon Monoxide (CO), 0-1000 ppm	25	Nitrogen Dioxide, (NO2), 0-20 ppm	62	PID Isobutylene (10.6eV) High range
12	Chlorine (CL2), 0-20 ppm*	35	Formaldehyde (CH2O), 0-10 ppm	63	PID Isobutylene (10.0eV) Low range
13	Chlorine Dioxide (CLO2), 0-5.0 ppm	36	Phosphine (PH3), 0-5.0 ppm	64	PID Isobutylene (11.7eV) Low range
14	Hydrogen (H2), 0-4% by volume	40	Hydrogen Sulfide (H2S), 0-2000 ppm		
15	Hydrogen Sulfide (H2S), 0-100 ppm	41	Ammonia (NH3), 0-300 ppm*		
16	Hydrogen Cyanide (HCN), 0-50 ppm	42	Ammonia (NH3), 0-1000 ppm*		
17	Hydrogen Chloride (HCL), 0-30 ppm*				
18	Hydrogen Fluoride (HF), 0-10 ppm*	LOW POWER INFRARED SENSORS			
19	Sulfur Dioxide (SO2), 0-20 ppm	50	Methane (CH4), 0-100% LEL (IR)		
20	Ammonia (NH3), 0-100 ppm*	51	Methane (CH4), 0-100% by volume (IR)		
21	Ozone (O3), 0-5 ppm*	53	Carbon Dioxide (CO2), 0-4% by volume (IR)		
22	Ethylene Oxide (ETO), 0-10 ppm				



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