

# GASMAX QSM-RF Gas Monitor

Four-Channel AC / Battery-Backup Gas Monitor for Toxic, CO<sub>2</sub> and Combustible Hydrocarbons (Non-Explosion Proof Applications)

- \* Supports up to four local or remote EC, IR or VOC sensors
- \* Built-in AC power supply with 6-foot cord for easy installation
- \* Remote EC sensors up to 250 feet IR up to 40 feet, PID up to 35 feet
- \* Operating temp range -40°C to +70°C (subject to sensor limits)
- \* Surge protection on AC and remote sensor inputs
- \* Easy to read 160 x 104 Pixel Display with LED backlight
- \* Four Push-Button User Interface (Menu, Add, Sub, Back)
- \* Internal 76 AH 3.6v batteries provide
- \* Wireless transmission reports once per minute in quiescent mode
- \* Reports gas levels once every 5 seconds if gas > background value
- \* Magnetic switches allow non-intrusive calibration in field
- \* 900 MHz or 2.4 GHz radios for maximum flexibility
- \* Manufactured in USA

The GDS Corp **GASMAX QSM-RF** quad-channel wireless gas monitor supports up to four local or remote sensors for hazardous toxic or combustible gases or dangerous volatile organic compounds (VOCs). The backup battery operates for up to six months with EC and low-power IR sensors. The unit includes an easy-to-use four-command interface with push-buttons and magnetic switches that can be magnetically activated without opening the enclosure.

The **GASMAX QSM-RF** continuously monitors the of the surrounding gas level and transmits values once every minute. The reporting rate increases to once every five seconds when the measured gas rises above the Background Gas setpoint. This setpoint is adjustable, per sensor, to account for sites that may have a constant low level of gas always present allowing the **GASMAX QSM-RF** to maintain a long battery life (when not operating on AC power). When the gas level drops below the set-point, for all sensors, the reporting rate will return to once every minute.

The **GASMAX QSM-RF** features non-intrusive magnetic switches that allow for complete system configuration, regular calibration, and product maintenance to be performed in the field without opening the lid and breaking the seal of the enclosure. Individual sensors can be mounted locally or remotely using the Remote Sensor Mounting



Kit. The maximum length varies by sensor and should be included in the part number configuration when ordering.

The **GASMAX QSM-RF** is ideal for monitoring gases in non-hazardous applications such as water / waste water plants, chemical plants, areas subject to oxygen depletion and enclosed or confined spaces.

Please contact your local GDS Corp representative for more information on the GDS Corp **GASMAX QSM-RF** quad-channel gas monitor.

**GDS Corp**  
Gas and Flame Detection

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Toxic & Combustible Gas Detection • Controllers • Process Monitors • Calibration Supplies

GASMAX QSM-RF SPECIFICATIONS	
<b>Power Input</b>	100-240VAC input with internal 76AH 3.6v battery backup
<b>Protection</b>	Power Electromagnetic Interference Filter (RFI)
<b>Sensor Input</b>	Any combination of four remote or local electrochemical sensors, PID sensors or low power infrared sensors. Remote sensor kits available: Electrochemical sensor: Up to 250 feet Low power infrared sensor: Up to 40 feet Photoionization detector (PID) sensor: Up to 35 feet
<b>Display</b>	160x104 resolution graphical LCD screen Transflective (sunlight readable) with LED backlight
<b>User Interface</b>	Four manual push buttons (Menu, Add, Sub, Back)
<b>Alarm Settings</b>	None
<b>Standard Output</b>	900 MHz (200 mW power) 52 Networks, up to 255 sensors per network 2.4 GHz (125 mW power) 78 Networks, up to 255 sensors per network External N-Female Radio Frequency (RF) connector Flexible antenna included
<b>Temp</b>	-40C to +70C operating range (subject to sensor limitations)
<b>Housing</b>	NEMA Class I, 4, 4X and 6 Fiberglass Enclosure with Clear Lid - IP66, UL508 and UL 746C (f1) Rated
<b>Dimensions</b>	5" D x 10.5" W x 20" H (Max dimensions with attachments) 6 lbs
<b>Certifications</b>	For use in non-hazardous areas only
<b>Hardware Warranty</b>	One-year limited warranty

GASMAX QSM-RF Order Guide	
GM/QSM-SEN1-LEN1-SEN2-LEN2-SEN3-LEN3-SEN4-LEN4-OPT1 [X]	
<b>SEN1</b>	Select sensor type from list below
<b>LEN1</b>	Select Local (0) or length in feet
<b>SEN2</b>	Select sensor type from list below
<b>LEN2</b>	Select Local (0) or length in feet
<b>SEN3</b>	Select sensor type from list below
<b>LEN3</b>	Select Local (0) or length in feet
<b>SEN4</b>	Select sensor type from list below
<b>LEN4</b>	Select Local (0) or length in feet
<b>OPT1</b>	1 = 900 MHz radio 2 = 2.4 GHz radio
<b>[X]</b>	[TAG] = Stainless steel tag

EC SENSORS (Remote ~ 100')		EC SENSORS (Remote ~100')		PID SENSORS (Remote ~ 35')	
<b>10</b>	Oxygen (O2), 0-25%	<b>28</b>	Nitric Oxide (NO), 0-250 ppm	<b>61A</b>	PID Isobutylene (10.6eV) 0-10 ppm
<b>11</b>	Carbon Monoxide (CO), 0-1000 ppm	<b>25</b>	Nitrogen Dioxide, (NO2), 0-20 ppm	<b>61B</b>	PID Isobutylene (10.6eV) 0-20 ppm
<b>12</b>	Chlorine (CL2), 0-20 ppm*	<b>35</b>	Formaldehyde (CH2O), 0-10 ppm	<b>61C</b>	PID Isobutylene (10.6eV) 0-50 ppm
<b>13</b>	Chlorine Dioxide (CLO2), 0-5.0 ppm	<b>36</b>	Phosphine (PH3), 0-5.0 ppm	<b>62A</b>	PID Isobutylene (10.6eV) 0-1000 ppm
<b>14</b>	Hydrogen (H2), 0-4% by volume	<b>40</b>	Hydrogen Sulfide (H2S), 0-2000 ppm	<b>62B</b>	PID Isobutylene (10.6eV) 0-2000 ppm
<b>15</b>	Hydrogen Sulfide (H2S), 0-100 ppm	<b>41</b>	Ammonia (NH3), 0-300 ppm*	<b>63A</b>	PID Isobutylene (10.0eV) 0-100 ppm
<b>16</b>	Hydrogen Cyanide (HCN), 0-50 ppm	<b>42</b>	Ammonia (NH3), 0-1000 ppm*	<b>64A</b>	PID Isobutylene (11.7eV) 0-100 ppm
<b>17</b>	Hydrogen Chloride (HCL), 0-30 ppm*				
<b>18</b>	Hydrogen Fluoride (HF), 0-10 ppm*	INFRARED SENSORS (Remote ~ 45')		CATALYTIC BEAD SENSORS	
<b>19</b>	Sulfur Dioxide (SO2), 0-20 ppm	<b>50</b>	Methane (CH4), 0-100% LEL (IR)		Not supported
<b>20</b>	Ammonia (NH3), 0-100 ppm*	<b>51</b>	Methane (CH4), 0-100% by volume (IR)		
<b>21</b>	Ozone (O3), 0-5 ppm*	<b>53</b>	Carbon Dioxide (CO2), 0-4% by volume (IR)		
<b>22</b>	Ethylene Oxide (ETO), 0-10 ppm				



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