

# GASMAX EC Gas Monitor



## Loop-Powered Gas Monitor for Toxic Applications

- \* Certified for Explosion Proof and Intrinsically Safe Installations
- \* Non-polarized loop powered interface eliminates wiring errors
- \* Graphic display shows values, units, trend graph, alarm levels
- \* Three flashing Alarm LEDs with Programmable Alarm Levels
- \* Real time clock tags alarm and calibration events
- \* Supports both local and remote sensors for easy installation
- \* Non-intrusive, prompted calibration with programmable cal gas
- \* Power-up and post-calibration delays eliminate false alarms
- \* Security settings to lock critical parameters
- \* Auto-recognition of Smart Sensors uploads calibration data & more
- \* Fault supervision circuitry detects failed sensor & transmits warning
- \* Setup in hazardous area requires only simple magnetic wand
- \* For combustible applications, see the GASMAX II gas monitor
- \* Manufactured in USA



Hydrogen Sulfide  
Oxygen Deficiency  
Carbon Monoxide  
Hydrogen Fluoride  
Ammonia  
Chlorine

... And More

Over 20 different sensor options for Explosion Proof and Intrinsically Safe Installations

The GASMAX EC single channel gas monitor for toxic or oxygen deficiency applications delivers the latest in loop-powered gas detection technology, reliability and ease of use.

### Wide Variety of Available Sensors

The GASMAX EC support all GDS Corp toxic sensors, including oxygen, hydrogen sulfide, chlorine, carbon monoxide and more. In addition, GDS Corp Smart Sensors enhance this capability by maintaining their own record of serial number, born-on date, initial calibration values, engineering units and more. Using this information, the GASMAX EC constantly tracks sensor performance and calculates an estimate of sensor life remaining. Built-in fault detection circuitry constantly monitors the sensor for correct operation.

### Advanced User Interface

The highly visible graphic display and flashing alarm LEDs constantly show

alarm status, calibrated engineering values and a programmable tag name, plus a trend screen shows alarm levels and a graph of the most recent 30 minutes.

An internal real-time clock and event log time-stamp up to 300 calibration and alarm events for later review. Taking advantage of the high-resolution graphic display, an easy-to-use menu-driven operator interface using magnetic keys eliminates all analog potentiometers and allows complete setup and calibration without hazardous area declassification.

Three operational levels of security allow the GASMAX EC to be fully field configurable, partially restricted or completely restricted by way of user ID and access code.

### Explosion-Proof or Intrinsically Safe

The GASMAX EC is CSA certified for use in Div 1 & Div 2 hazardous areas and can be installed as Explosion Proof or Intrinsically Safe using appropriate wiring techniques and an Intrinsically Safe barrier. See notes on IS installation on back.

An ATEX certified version for XP installations is also available.

**GDS Corp**

Gas and Flame Detection

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



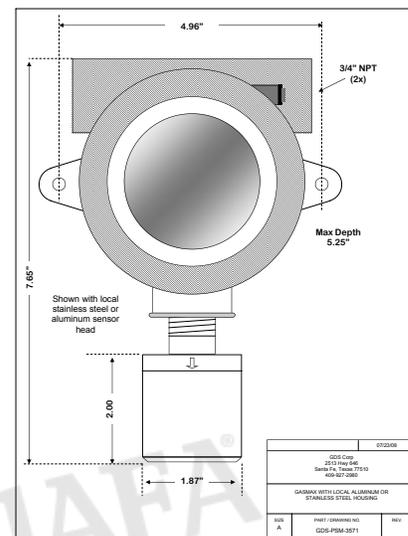
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GASMAX EC SPECIFICATIONS	
<b>Power Input</b>	10-30VDC at less than 0.75 watts
<b>Display</b>	64 x 128 pixel LCD with 30-minute trend, bargraph and engineering units display.
<b>Input</b>	Accepts microamp-level signals from local or remote GDS Corp toxic or oxygen deficiency sensors
<b>Accuracy</b>	+/- 5% of full scale range (typical)
<b>Standard Output</b>	Standard 2-wire 4-20mA current sink output. Max loop R is 600 ohms with nominal 24VDC power supply.
<b>Temp</b>	Electronics -40°C to +60°C. See Echem Sensor Manual for additional information
<b>Housing</b>	Aluminum housing with epoxy paint standard; #316 stainless steel optional
<b>Dimensions</b>	Width 5.4" (137 mm), Height 8" (203 mm), Depth 5" (127 mm) Shipping weight 6.5 pounds (3 kg)
<b>Approvals</b>	CSA Certified Div 1 & 2 Groups B, C, D. Suitable for explosion-proof installations CSA Certified Div 1 & 2 Groups A, B, C, D. Intrinsically safe. <b>IMPORTANT:</b> Intrinsically Safe installations require IS barrier #10-0263 (MTL 7787P+) or equivalent. ATEX Certified EX II 2 G EEx d IIB + H2 T5
<b>Warranty</b>	Two years on electronics and one year on sensors.

GASMAX EC Order Guide	
GM EC A - B - C [SS] [TAG]	
<b>"A"</b>	<b>SENSOR HEAD</b> 1 = Local sensor head 2 = Local sensor head + splash guard 3 = Local sensor head for reactive gases 4 = Local sensor head + SG for reactive gases 5 = Remote sensor head <sup>1,2</sup> 6 = Remote sensor head + splash guard <sup>1,2</sup> 7 = Remote sensor for reactive gases <sup>1,2</sup> 8 = Remote sensor head + SG for reactive gases <sup>1,2</sup>
<b>"B"</b>	<b>SENSOR TYPE</b> See GDS Corp Product Configurator for allowable sensor types
<b>"C"</b>	<b>DETECTION RANGE <sup>5</sup></b> 1 = 0 - 1      5 = 0 - 50 2 = 0 - 5      6 = 0 - 100 3 = 0 - 10     7 = 0 - 500 4 = 0 - 25     8 = 0 - 1000 Custom RXXXX (0-9999)
[SS] = Stainless steel enclosure [TAG] = Stainless steel tag	

SENSOR TYPES			
10	Oxygen	22	Ethylene Oxide
11	Carbon Monoxide	23	Arsine
12	Chlorine <sup>6</sup>	24	Silane
13	Chlorine Dioxide <sup>6</sup>	25	Fluorine <sup>6</sup>
14	Hydrogen	26	Phosgene <sup>6</sup>
15	Hydrogen Sulfide	27	Hydrazine
16	Hydrogen Cyanide	28	Nitric Oxide
17	Hydrogen Chloride <sup>6</sup>	29	Nitrogen Dioxide
18	Hydrogen Fluoride <sup>6</sup>	30	Mercaptan
19	Sulfur Dioxide	31	Tetrahydrothiophene
20	Ammonia <sup>6</sup>	32	Diborane
21	Ozone <sup>6</sup>	33	Hydrogen Sulfide (Low RH)



### Intrinsically Safe Installations

Certain highly reactive gases (see Note 6 above) require special sensor heads and Intrinsically Safe (IS) installation in hazardous locations. Intrinsically Safe equipment is defined as "equipment which is incapable of releasing sufficient electrical or thermal energy under normal or abnormal conditions to cause ignition of a specific hazardous atmospheric mixture in its most easily ignited concentration." IS installations require an IS barrier (#10-0263 MTL 7787P+) or equivalent that must be mounted in an area designated as Non-hazardous.



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NOTES
Note 1: Remote sensor installations do not utilize Smart Sensor interface
Note 2: Maximum distance for remote e-chem sensor connection is 15ft (3m).
Note 5: Standard ranges shown; contact factory for additional ranges
Note 6: Highly reactive gases require type 3, 4, 7 or 8 sensor head