

# GASMAX / EC Gas Monitor

## Two-wire Toxic / O<sub>2</sub> Gas Detection

- ◆ Certified for use in Explosion Proof and Intrinsically Safe Installations
- ◆ Non-polarized loop powered interface eliminates wiring errors
- ◆ Graphic display shows value, units, trend graph
- ◆ Non-intrusive one-person prompted calibration
- ◆ Smart Sensors store calibration & alarm events
- ◆ Power-up and post-cal delay eliminates false alarms
- ◆ Real time clock tags alarm events
- ◆ Flashing Alarm Indicator LEDs
- ◆ Aluminum sensor head available for reactive gases
- ◆ Security settings lock critical values
- ◆ See GASMAX II for local relays, LEL or MODBUS®

The GASMAX / EC single channel Toxic / Oxygen gas monitor delivers the latest in loop-powered gas detection technology, reliability and ease of use. The GASMAX / EC is CSA certified for use in Div 1 & Div 2 explosion proof installations and intrinsically safe installations with IS barrier.

The highly visible display shows calibrated engineering values, bar-graph data, 30-minute trend and setup information. An internal real-time clock time-stamps calibration and alarm events for later review. Front panel flashing LEDs continuously indicate alarm conditions.

Operator interface is a menu-driven magnetic keypad, allowing complete setup and calibration without hazardous area declassification. There are no potentiometers and all adjustments are performed through the magnetic keypad interface.

The GASMAX / EC maintains a record of sensor calibration data that provides an estimate of sensor life remaining. During each post-calibration purge delay, the GASMAX / EC can be programmed to transmit this data on the 4-20mA output. Controllers such as the C1 *Protector* can display and communicate this data to a distributed control system or HMI such as the *Protector*HMI Data Visualization & Logging Software.

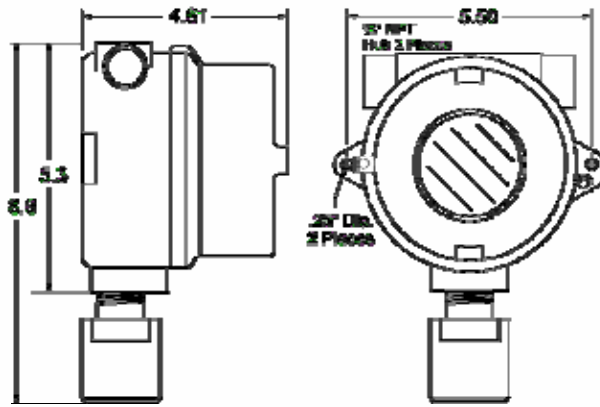
Locally connected Smart Sensors enhance this capability by maintaining their own electronic record of serial number, born-on date, initial calibration values, engineering units and other data, ensuring the most accurate measurement and alarming capability available today.



2513 Hwy 646, Santa Fe, Texas 77510  
(409) 927-2980 • (409) 927-4180 Fax  
www.gdscorp.com • info@gdscorp.com

GDS CORP

ALL DIMENSIONS IN INCHES



**Operating Voltage** 10-30VDC at less than 0.75 watts in 2-wire 4-20mA configuration

**Display** 64 x 128 pixel LCD with 30-minute trend, bargraph and engineering units

**Input** Accepts micro-amp signals from standard GDS Corp. toxic / O<sub>2</sub> sensors

**Output** Standard 2-wire 4-20mA current sink output. Max loop R is 600 ohms with nominal 24VDC power supply.

**Temp Range** -40°C to +65°C operating

**Housing** Aluminum housing with epoxy paint standard; #316 stainless steel opt

**Dimensions** Width 5.4" (137 mm), Height 8" (203 mm), Height 5" (127 mm). Shipping weight 6.5 pounds (3 kg)

**Approvals** 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.

**IMPORTANT:** Intrinsically Safe installations require IS barrier #10-0263 (MTL 7787P+) or equivalent.

**Warranty** Two years on electronics and one year on sensors from date of purchase



2513 Hwy 846, Santa Fe, Texas 77510  
(409) 927-2980 • (409) 927-4180 Fax  
www.gdscorp.com • info@gdscorp.com

## GASMAX / EC Order Guide

GM/EC A - B - C [ATEX]

Suffix "A" - Sensor Head <sup>1, 2, 3, 4</sup>

- 1 Local Stainless Steel - XP & IS
- 2 Local Stainless Steel (w/ splash guard) - XP & IS
- 3 Local Aluminum - IS ONLY <sup>3, 4</sup>
- 4 Local Aluminum (w/ splash guard) - IS ONLY <sup>3, 4</sup>
- 5 Remote Stainless Steel - XP & IS <sup>1, 2</sup>
- 6 Remote Stainless Steel (w/ splash guard) - XP & IS <sup>1, 2</sup>
- 7 Remote Aluminum - IS ONLY <sup>1, 2, 3, 4</sup>
- 8 Remote Aluminum (w/ splash guard) - IS ONLY <sup>1, 2, 3, 4</sup>

Suffix "B" - Sensor Type <sup>6</sup>

- |                                   |                        |
|-----------------------------------|------------------------|
| 10 Oxygen                         | 21 Ozone               |
| 11 Carbon Monoxide                | 22 Ethylene Oxide      |
| 12 Chlorine <sup>6</sup>          | 23 Arsine              |
| 13 Chlorine Dioxide <sup>6</sup>  | 24 Silane              |
| 14 Hydrogen                       | 25 Fluorine            |
| 15 Hydrogen Sulfide               | 26 Phosgene            |
| 16 Hydrogen Cyanide               | 27 Hydrazine           |
| 17 Hydrogen Chloride <sup>6</sup> | 28 Nitric Oxide        |
| 18 Hydrogen Fluoride <sup>6</sup> | 29 Nitrogen Dioxide    |
| 19 Sulfur Dioxide                 | 30 Mercaptane TBM      |
| 20 Ammonia NH <sub>3</sub>        | 31 Tetrahydrothiophene |

Suffix "C" - Target Gas Range <sup>5</sup>

- |          |         |          |
|----------|---------|----------|
| 1 0-1.00 | 4 0-25  | 7 0-500  |
| 2 0-5.00 | 5 0-50  | 8 0-1000 |
| 3 0-10.0 | 6 0-100 | 9 Other  |

**Note 1:** Remote sensor installations do not utilize Smart Sensor interface

**Note 2:** Maximum distance for remote e-chem sensor connection is 25ft (3m).

**Note 3:** Aluminum sensor heads require IS installation and IS barrier #10-0263

**Note 4:** ATEX Certified GASMAX / EC not available with aluminum sensor head

**Note 5:** Standard ranges are shown; contact factory for additional ranges

**Note 6:** Highly reactive gases REQUIRE aluminum sensor head and IS in hazardous area

Represented by: