

GASMAX / ECx Gas Monitor

Wireless Toxic / O₂ Gas Detection

- ◆ Completely self-contained wireless gas monitor
- ◆ Six month use on internal battery
- ◆ Built-in 900Mhz license-free wireless radio (US, Canada)
- ◆ Graphic display shows value, units, trend
- ◆ Range up to 20 miles with hi-gain external antenna
- ◆ Flashing alarm indicator LEDs
- ◆ Smart Sensors store calibration & alarm events
- ◆ Signal strength indication helps ensure reliable link
- ◆ Power-up and post-cal delay eliminates false alarms
- ◆ See GASMAX IIx for wireless LEL

The GASMAX / ECx battery-powered single channel toxic or oxygen gas monitor delivers the latest in wireless gas detection technology, reliability and ease of use. The GASMAX / ECx is designed for use in hazardous or explosion proof installations (NRTL certification pending).

The highly visible LCD 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.

An internal D-cell lithium battery and 900Mhz license-free spread-spectrum wireless modem provide up to six months of continuous operation in typical applications. Every 6 seconds, the GASMAX / ECx samples the sensor and transmits a warning signal if pre-programmed alarm levels are exceeded. Under normal conditions the GASMAX / ECx transmits a 'keep-alive' signal every five minutes to verify communications and advise the controller if the battery is low. The GDS Corp C1 Protector 16-channel controller is specifically designed to handle the GASMAX / ECx communications protocol.

Operator interface is via a menu-driven magnetic keypad, allowing setup and calibration without area declassification.

Locally connected Smart Sensors maintain an electronic record of serial number, born-on date, initial calibration values and engineering units, ensuring the most accurate measurement and alarming capability available today.

Wireless Range Calculation

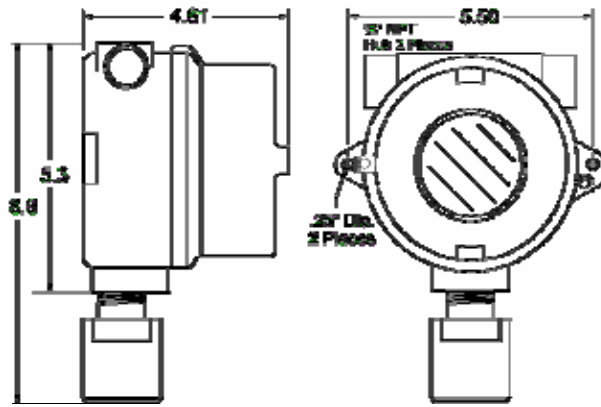
The range at which a wireless connection will operate reliably is dependent on frequency, distance, combined antenna height, transmitter power and receiver sensitivity. For reliable communication, the system margin (TX power + RX gain + Antenna gain - Path Loss) must exceed 10-20 dB. Contact GDS Corp for more information.



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



- Power** Replaceable internal D-cell lithium
- Display** 64 x 128 pixel LCD with 30-minute trend, bargraph and engineering
- Input** Analog - Accepts micro-amp signals from standard GDS Corp. toxic / O₂
- Output** License-free 900Mhz frequency-hopping spread spectrum wireless modem with 256 bit encryption & MODBUS® protocol
Data rate 9600 baud
Output power adjustable 1mW to 0.5 watt (+27 dBm max)
Receiver sensitivity -110dBm
Range: Urban, indoor range up to 3000ft, or to 20 miles with RF line-of-sight and high-gain antenna
Includes local 2.1 dB whip antenna with connector for remote antenna
- Temp** -40°C to +60°C operating range
- Housing** Aluminum housing with epoxy paint standard; #316 stainless steel opt
- Approvals** FCC 15.247 & Industry Canada (IC)
- Warranty** Two years on electronics and one year on sensors from date of

GASMAX / ECx Order Guide

GM/ECx A - B - C

Suffix "A" - Sensor Head ^{1, 2, 3, 4}

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

Suffix "B" - Sensor Type ⁶

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

Suffix "C" - Target Gas Range ⁵

- | | | |
|----------|---------|----------|
| 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 5: Standard ranges are shown; contact factory for additional ranges

Note 6: Highly reactive gases REQUIRE aluminum sensor head



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

Represented by: