

GASMAX II Gas Monitor

Toxic / O₂ / Combustible Gas Detection

- ◆ CSA Certified for explosion proof installations
- ◆ Monitor both Toxic / O₂ and LEL / VOC from single point
- ◆ Graphic display shows values, units, trend graph
- ◆ Non-intrusive one-person prompted calibration
- ◆ Power-up and post-cal delay eliminates false alarms
- ◆ Backlit display for better visibility in low light
- ◆ Options for 3x 5A alarm contacts, isolated 4-20mA and MODBUS® interface
- ◆ Security settings to lock critical parameters
- ◆ Smart Sensors store calibration & alarm events

The GASMAX II single / dual channel Toxic / O₂ / LEL gas monitor delivers the latest gas detection technology, reliability and ease of use. Available in both single and dual channel models, the GASMAX II is CSA certified for use in Div 1 & Div 2 explosion proof installations. For low temperature applications, an Arctic Monitor option enables operation to -55°C ambient.

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

In addition to dual 4-20mA current loop outputs, an RS-485 two-wire MODBUS® interface and three optional 5A relays are available to communicate with controllers or local alarm indicators.

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

The GASMAX II maintains a record of sensor calibration data that provides an estimate of sensor life remaining. During each post-calibration purge delay, the GASMAX II 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.

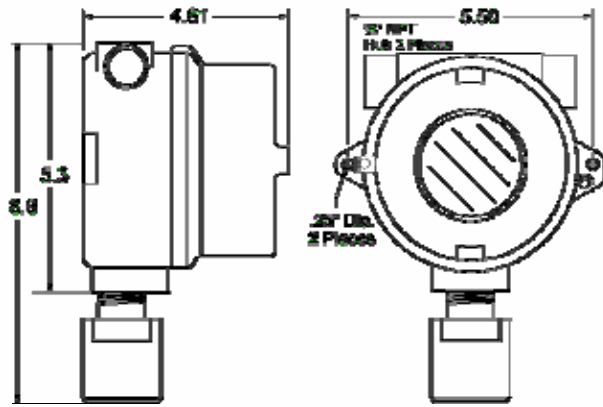
Locally connected Smart Sensors enhance this capability by maintaining their own electronic record of serial number, born-on date, initial calibration values, engineering units and other data, ensuring the most accurate measurement and alarming capability available today.



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GDS CORP

ALL DIMENSIONS IN INCHES



- Operating Voltage** 10-30VDC at < 3 watts with relay board. Additional power (4W peak) required for Arctic Monitor option.
- Display** Backlit 64 x 128 pixel LCD with 30-minute trend, bargraph and eunits.
- Inputs** EC channel: Accepts signals from GDS Corp toxic / O₂ sensors
mA / Bridge channel: Adjustable excitation voltage for SmartIR, PID and catalytic bead. Can be converted to 4-20mA input for use with GDS-49 or other standard 4-20mA source.
- Outputs** Standard dual 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply
Optional dual 1500CMV isolated 4-20mA current source. Max loop R is 650 ohms with nominal 24VDC.
Optional three Form C Relays 5A @ 30VDC / 240VAC
Optional RS-485 2-wire MODBUS®
- Temp Range** -40°C to +65°C operating
-55°C to +65°C operating (Arctic)
- Housing** Aluminum housing with epoxy paint standard; #316 stainless steel opt
- Dimensions** Width 5.4" (137 mm), Height 8" (203 mm), Depth 5" (127 mm)
Shipping weight 6.5 pounds (3 kg)
- Approvals** CSA Certified Div 1 & 2 Groups B, C, D. Suitable for XP installations
- Warranty** 2 years on electronics and one year on sensors from date of purchase

GASMAX II Order Guide

GM II A - B - C / D - E - F / G - H [ATEX]

"A" - EC Channel Sensor Head Type ^{1, 2, 3, 4}

- 1 Local Stainless Steel Explosion-Proof
- 2 Local Stainless Steel Explosion-Proof (w/ splash guard)
- 3 Local Aluminum; without flame arrester ^{3, 4}
- 4 Local Aluminum; without flame arrester; (w/ splash guard) ^{3, 4}
- 5 Remote Stainless Steel Explosion-Proof ^{1, 2}
- 6 Remote Stainless Steel Explosion-Proof (w/ splash guard) ^{1, 2}
- 7 Remote Aluminum; without flame arrester ^{1, 2, 3, 4}
- 8 Remote Aluminum; without flame arrester; (w/ splash guard) ^{1, 2, 3, 4}

"B" - EC Channel Sensor 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 Mercaptan TBM |
| 20 Ammonia NH ₃ | 31 Tetrahydrothiophene |

"C" - EC Measurement 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 Contact factory |

"D" - mA / Bridge Channel Sensor Head Type ^{1, 8}

- 1 Local Stainless Steel Explosion-Proof ⁸
- 2 Local Stainless Steel Explosion-Proof (w/ splash guard) ⁸
- 5 Remote Stainless Steel Explosion-Proof ¹
- 6 Remote Stainless Steel Explosion-Proof with splash guard ¹
- 9 Local mount for GDS-IR Point Infrared (mA/Bridge channel only)
- 10 Remote mount for GDS-IR Point Infrared (mA/Bridge channel only)

"E" - mA / Bridge Channel Sensor

- | | |
|--|---|
| 50 Smart IR 0-100% LEL (Methane) | 70 Catalytic Bead for LEL |
| 51 Smart IR 0-100% LEL (Propane) | 80 MOS H ₂ S 0-50 ppm |
| 52 Smart IR 0-100% Volume (CH ₄) | 90 4-20mA Input |
| 53 Smart IR 0-5% Volume CO ₂ | 95 GDS-IR 0-100% LEL (CH ₄) |
| 60 Photoionization Detector (0-2000ppm) | 96 GDS-IR (Other) |
| 61 Photoionization Detector (0-20ppm) | |

"F" - mA / Bridge Channel Measurement 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 Contact factory |

"G" - Options

- 1 10-0234 3 Alarm Relays & RS-485 MODBUS® slave port
- 2 10-0250 Dual Isolated 4-20mA Output

"H" - Temperature Range ¹⁰

- 0 Standard operating range -40°C to +65°C
- 1 "Arctic Monitor" option operating range -55°C to + 65°C

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: GASMAX II with Aluminum sensor head NOT for XP installations

Note 4: ATEX certification not available with aluminum sensor head

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

Note 6: Highly reactive gases REQUIRE Aluminum sensor head

Note 8: Dual local sensors require Y-adapter #10-1200

Note 10: Arctic option available for local sensors only; require 10-91xx sensor



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Represented by: