

GASMAX II + Catalytic Bead

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 settings
- ◆ Smart Sensors store calibration & alarm events

The GASMAX II Gas Monitor with Catalytic Bead sensor offers a cost effective and proven solution for the detection of a wide range of combustible gases. Available in both single and dual channel models, the GASMAX II is CSA certified for use in Class 1 Div 1 & Div 2 explosion proof installations.

Long recognized as an industry standard, catalytic bead sensors detect the presence of flammable gases and vapors in the range of 0-100% Lower Explosive Limit (LEL). GDS Corp catalytic bead sensors exhibit excellent long term stability and a high resistance to common agents that can affect the sensitivity of cat-bead sensors over time.

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 alarm status.

In addition to combustible gas, the dual-channel-capable GASMAX II can be configured to host an additional electrochemical sensor for simultaneous monitoring of combustible and toxic or oxygen levels. Sensors can be mounted locally or in a remote sensor head (toxic sensors must be located within 25 feet).

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

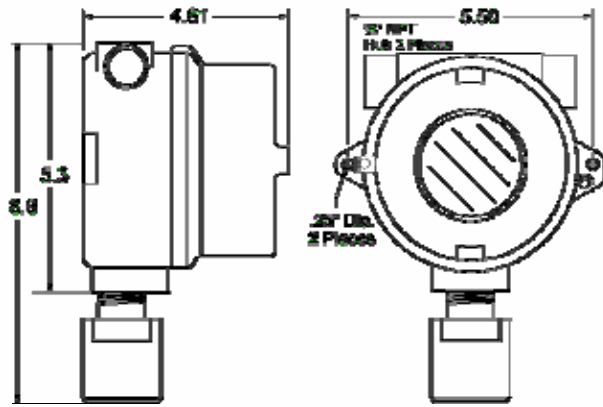
Smart Sensor technology allows a memory chip in each Smart Sensor to provide the GASMAX II with information on sensor type, range, units, born-on date and previous calibration data.



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GDS CORP

ALL DIMENSIONS IN INCHES



Operating Voltage 10-30VDC at less than 3 watts with 10-0234 relay option

Display Large adjustable backlit 64 x 128 pixel LCD with 30 minute trend, bar-graph and engineering units.

Input EC Channel: Accepts signals from GDS Corp toxic / O₂ sensors
mA / Bridge Channel: Configured for bridge input from Catalytic Bead

Outputs Standard dual 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power
Optional dual 1500CMV isolated 4-20mA current source. Max loop R is 650 ohms with nominal 24VDC.

Optional three Form C Relays @ 5A
Optional RS-485 2-wire MODBUS®

Accuracy ± 3% of full scale

Warm-up < 30 minutes to final zero ± 2% LEL

Response T₉₀ < 10 seconds @ 20°C ambient

Temp Range -40°C to +65°C
-55°C to +65°C operating (Arctic)

Humidity 0 to 100% RH non-condensing

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; ATEX EEx d IIB+H₂ T5

Warranty 2 years on electronics and one year on sensors from date of purchase



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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
- 11 Carbon Monoxide
- 12 Chlorine ⁶
- 13 Chlorine Dioxide ⁶
- 14 Hydrogen
- 15 Hydrogen Sulfide
- 16 Hydrogen Cyanide
- 17 Hydrogen Chloride ⁶
- 18 Hydrogen Fluoride ⁶
- 19 Sulfur Dioxide
- 20 Ammonia NH₃
- 21 Ozone
- 22 Ethylene Oxide
- 23 Arsine
- 24 Silane
- 25 Fluorine
- 26 Phosgene
- 27 Hydrazine
- 28 Nitric Oxide
- 29 Nitrogen Dioxide
- 30 Mercaptan TBM
- 31 Tetrahydrothiophene

"C" - EC Measurement Range ⁵

- 1 0-1.00
- 2 0-5.00
- 3 0-10.0
- 4 0-25
- 5 0-50
- 6 0-100
- 7 0-500
- 8 0-1000
- 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)
- 51 Smart IR 0-100% LEL (Propane)
- 52 Smart IR 0-100% Volume (CH₄)
- 53 Smart IR 0-5% Volume CO₂
- 54 Photoionization Detector (0-2000ppm)
- 55 Photoionization Detector (0-20ppm)
- 70 Catalytic Bead for LEL
- 80 MOS H₂S 0-50 ppm
- 90 4-20mA Input
- 95 GDS-IR 0-100% LEL (CH₄)
- 96 GDS-IR (Other)

"F" - mA / Bridge Channel Measurement Range ⁵

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

Represented by: