



GASMAX II Gas Monitor

Toxic / O₂ / Combustible Gas Detection

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 ProtectorHMI 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.



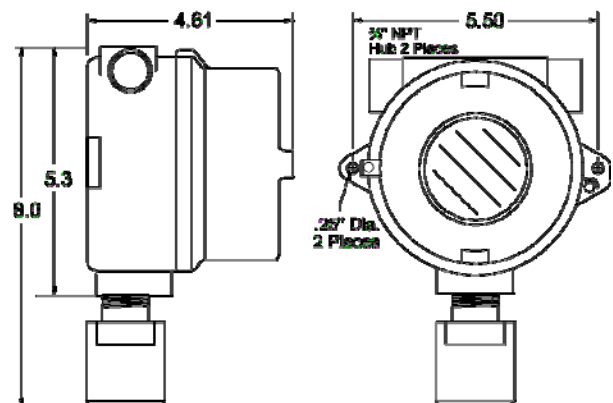
GASMAX II with local sensor



GASMAX II with two local sensors and dual local sensor adapter

- **Certified for Explosion Proof installations**
- **Smart Sensors store calibration & events**
- **Simultaneously monitor both toxic / O₂ and LEL**
- **Graphic display shows value, units, trend**
- **Non-intrusive “one person” calibration**
- **Power-up and post-cal delay eliminates false alarms**
- **Options for 5A alarm contacts and MODBUS**
- **Security settings lock critical parameters**

ALL DIMENSIONS IN INCHES



Specifications

Operating Voltage	10-30VDC at less than 3 watts with relay option board. Additional power (4W peak) required for Arctic Monitor option.
Display	Backlit 64 x 128 pixel LCD with 30-minute trend, bargraph and engineering units.
Inputs	EC channel: Available for micro-amp signals from standard GDS Corp toxic / O ₂ sensors mA / Bridge channel: Adjustable excitation voltage for SmartIR, MOS and catalytic bead. Can be converted to 4-20mA input for use with GDS-49 Sensor Transmitter 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 Monitor)
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 explosion-proof installations
Warranty	Two years on electronics and one year

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GASMAX II Order Guide

Part Number³: GM II - A - B - C / D - E - F / G - H

"A" - EC Channel Sensor Head Type

1	Local 10-0247	Explosion-Proof (Stainless Steel)
2	Local 10-0247	Explosion-Proof (Stainless Steel) with splash guard
3	Local 10-0247IS	Aluminum; without flame arrestor ²
4	Local 10-0247IS	Aluminum; without flame arrestor; with splash guard ²
5	Remote 10-0247	Explosion-Proof (Stainless Steel) ¹
6	Remote 10-0247	Explosion-Proof (Stainless Steel) with splash guard ¹
7	Remote 10-0247IS	Aluminum; without flame arrestor ^{1,2}
8	Remote 10-0247IS	Aluminum; without flame arrestor; with splash guard ^{1,2}

"B" - EC Channel Sensor

10	Oxygen O ₂ 0-25%	21	Ozone O ₃ 0-1 ppm
11	Carbon Monoxide CO 0-300/1000 ppm	22	Ethylene Oxide C ₂ H ₄ O 0-20 ppm
12	Chlorine Cl ₂ 0-5/50 ppm	23	Arsine AsH ₃ (all hydrides) 0-1 ppm
13	Chlorine Dioxide ClO ₂ 0-1 ppm	24	Silane SiH ₄ 0-50 ppm
14	Hydrogen H ₂ 0-2000 ppm	25	Fluorine F ₂ 0-1 ppm
15	Hydrogen Sulfide H ₂ S 0-50/100 ppm	26	Phosgene COCl ₂ 0-1 ppm
16	Hydrogen Cyanide HCN 0-50 ppm	27	Hydrazine N ₂ H ₄ 0-1 ppm
17	Hydrogen Chloride HCL 0-30 ppm	28	Nitric Oxide NO 0-100/500 ppm
18	Hydrogen Fluoride HF 0-10 ppm	29	Nitrogen Dioxide NO ₂ 0-5/50 ppm
19	Sulfur Dioxide SO ₂ 0-20/100 ppm	30	Mercaptan TBM 0-14ppm
20	Ammonia NH ₃ 0-100 ppm	31	Tetrahydrothiophene THT 0-100 ppm

"C" - EC Measurement Range

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 (contact factory)

"D" - mA / Bridge Channel Sensor Head Type

1	Local 10-0247	Explosion-Proof (Stainless Steel)
2	Local 10-0247	Explosion-Proof (Stainless Steel) with splash guard
5	Remote 10-0247	Explosion-Proof (Stainless Steel) ¹
6	Remote 10-0247	Explosion-Proof (Stainless Steel) 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

50	Smart IR 0-100% LEL (Methane)	70	Catalytic Bead for Combustibles LEL
51	Smart IR 0-100% LEL (Propane)	80	MOS H ₂ S 0-50 ppm
52	Smart IR 0-100% Volume (Methane)	90	4-20mA Input for 2 / 3 wire input
53	Smart IR 0-5% Volume CO ₂	95	GDS-IR 0-100% LEL (Methane)
60	Photoionization Detector (0-2000ppm)	96	GDS-IR (Other)
61	Photoionization Detector (0-20ppm)		

"F" - mA / Bridge Measurement Range

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 (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

- 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 include GDS-48 Universal Remote Sensor Assembly. Maximum distance for remote electrochemical sensor connection to GASMAX II is 25ft. Special shielded 25ft cable is supplied with these units and must be used.

Note 2: Aluminum sensor heads for NON-HAZARDOUS applications only!

Note 3: If none, enter "0" or "00" on part number

Represented by: