GASMAX II Gas Monitor

Single / Dual Channel Toxic & Combustible Gas Monitor for Hazardous Locations

✳ CSA Certified for Class I, Div 1 explosion-proof installations

✳ Monitor toxic and combustible gases with one detector

✳ Graphic display shows values, units, trend graph, alarm levels

✳ Supports both local and remote sensors for easy installation

✳ Non-intrusive, prompted calibration with programmable cal gas

✳ Power-up and post-calibration delays eliminate false alarms

✳ Backlit display for better visibility in low light conditions

✳ Options for 3x 5A alarm contacts, isolated 4-20mA and MODBUS®

✳ Security settings to lock critical parameters

✳ Auto-recognition of Smart Sensors uploads calibration data & more

✳ Fault supervision circuitry detects failed sensor & transmits warning

✳ Setup in hazardous area requires only simple magnetic wand

✳ Manufactured in USA

Shown with local stainless steel sensor head (left), locally-connected GDS-IR infrared sensor (above) and dual-local sensor mount (right)

The GASMAX II gas monitor delivers the latest in toxic & combustible gas detection technology, reliability and ease of use.

Widest Variety of Available Sensors
Built-in dual channel electronics allow the GASMAX II to support almost any GDS Corp sensor or 4-20mA current source input. Local GDS Corp Smart Sensors enhance this capability by maintaining their own record of serial number, born-on date, initial calibration values, engineering units and more. Using this information, the GASMAX II constantly tracks sensor performance and calculates an estimate of sensor life remaining.

Advanced User Interface
The highly visible backlit display and high intensity alarm LEDs constantly show alarm status, calibrated engineering values and programmable tag name; a trend screen shows alarm levels and the most recent 30 minute data values. An internal real-time clock and event log time-stamp calibration and alarm events for later review. A menu-driven operator interface using magnetic keys eliminates all analog potentiometers and allows complete setup and calibration without hazardous area declassifi

Flexible Output Options
In addition to standard dual 4-20mA current loop outputs, an optional dual isolated 4-20mA output board or an RS-485 two-wire MODBUS® interface with optional three 5A SPDT relays are available to communicate with controllers or drive local alarm indicators. When used with the any controller's MODBUS master port, multiple GASMAX II monitors can be daisy-chained up to 500m to minimize wiring.

Reliable
Available in both single and dual channel models, the GASMAX II is certifi for use in Class I, Div 1 explosion proof installations. For low temperature applications, an Extended Temperature Monitor option adds thermostatically controlled heaters to enable operation as low as –55°C ambient.

AUTHORIZED DISTRIBUTOR: GasDetectorsUSA.com
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Toxic & Combustible Gas Detection • Controllers • Process Monitors • Calibration Supplies

GASMAX II SPECIFICATIONS

Power Input	10-30VDC at < 4 watts with relay board. Additional power required for Extended Temp & GDS-IR option.
Display	Backlit 64 x 128 pixel LCD with 30-minute trend, bargraph and engineering units.
Electrochemical Sensor Input	Channel 1 accepts microamp-level signals from GDS Corp toxic & oxygen defi
Bridge Type Sensor Input	Channel 2 provides adjustable excitation voltage for SmartIR, PID and catalytic bead or 4-20mA current source
Standard Output	Standard dual 3-wire 4-20mA current source. Max loop R is 750 ohms with nominal 24VDC power supply
Optional Outputs	Dual 1500CMV isolated 4-20mA current source. Max loop R is 650 ohms with nominal 24VDC; Single or dual MODBUS slave ports; 3x programmable alarm relays with 5A capability
Temp	-40°C to +60°C; Operation to -55°C with Extended Temp option
Housing	Aluminum housing with epoxy paint standard; Optional #316 stainless steel housing (specify [SS] in part number)
Dimensions	Width 5.4" (137 mm), Height 8" (203 mm), Depth 5" (127 mm) Shipping weight 6.5 pounds (3 kg)
Approvals	CSA Certifi - tions; ATEX Certifi
Warranty	2 years on electronics and one year on sensors

SENSOR TYPES[5,10]

10	Oxygen	-40 / +55C	27	Hydrazine	-40 / +40C
11	Carbon Monoxide	-40 / +50C	28	Nitric Oxide	-40 / +50C
12	Chlorine[6]	-40 / +50C	29	Nitrogen Dioxide	-40 / +50C
13	Chlorine Dioxide[6]	-40 / +40C	30	Mercaptan TBM	-40 / +40C
14	Hydrogen	-40 / +50C	31	Tetrahydrothiophene	-40 / +40C
15	Hydrogen Sulfide	-40 / +50C	32	Diborane	-40 / +40C
16	Hydrogen Cyanide	-40 / +50C	50	SmartIR 0-100% LEL (Methane)	-20 / +50C
17	Hydrogen Chloride[6]	-40 / +50C	51	SmartIR 0-100% LEL (Propane)	-20 / +50C
18	Hydrogen Fluoride[6]	-40 / +50C	53	SmartIR 0-100% by volume	-20 / +50C
19	Sulfur Dioxide	-40 / +50C	53	SmartIR Carbon Dioxide	-20 / +50C
20	Ammonia[6]	-40 / +40C	61	PID Low (0-50 ppm, 10.6eV)	-40 / +60C
21	Ozone[6]	-40 / +40C	62	PID High (0-300 ppm, 10.6eV)	-40 / +60C
22	Ethylene Oxide	-40 / +50C	63	PID Low (0-50 ppm, 9.6eV)	-40 / +60C
23	Arsine	-40 / +40C	64	PID Low (0-50 ppm, 10.0 eV)	-40 / +60C
24	Silane	-40 / +40C	70	Catalytic Bead 0-100% LEL	-40 / +60C
25	Fluorine[6]	-40 / +40C	90	4-20mA input	-40 / +60C
26	Phosgene[6]	-40 / +40C	xx	GDS-IR (Standard)	-40 / +60C

GDS Corp
Gas and Flame Detection

GASMAX II Order Guide

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

"A" & "D"	SENSOR HEAD [1,2,3,4,6,8] 0 = None 1 = Local sensor head 2 = Local sensor head + splash guard 3 = Local sensor head for reactive gases[3] 4 = Local sensor head + SG for reactive gases[3] 5 = Remote sensor head 6 = Remote sensor head + splash guard 7 = Remote sensor for reactive gases 8 = Remote sensor head + SG for reactive gases 9 = Local mount for GDS-IR[7] 10= Remote mount for GDS-IR[7] 12= Local ATEX sensor head 13 = Local ATEX sensor head + splash guard 14= Remote ATEX sensor head 15= Remote ATEX sensor head + splash guard 20= Local 4-20mA sensor transmitter 21= Local sensor transmitter + splash guard 22= Local sensor transmitter for reactive gases[3] 23= Local sensor transmitter + SG for reactive gases[3] 24= Remote 4-20mA sensor transmitter 25= Remote sensor transmitter + splash guard 26= Remote sensor transmitter for reactive gases 27= Remote sensor transmitter + SG for reactive gases
"B" & "E"	SENSOR TYPE (see chart) [5] Using sensor types 10-32 on "E" *requires* local or remote 4-20mA sensor transmitter
"C" & "F"	DETECTION RANGE [5] 1 = 0 - 1 5 = 0 - 50 2 = 0 - 5 6 = 0 - 100 3 = 0 - 10 7 = 0 - 500 4 = 0 - 25 8 = 0 - 1000 Custom RXXXX (0-9999)
"G"	OUTPUT OPTIONS 0 = Dual 4-20mA output (standard) 1 = MODBUS + 3X Alarm Relays 2 = Dual isolated 4-20mA outputs 3 = MODBUS slave port 4 = Dual MODBUS slave ports
"H"	EXTENDED TEMP [10] 0 = Std range –40°C to +60°C 1 = Ext temp –55°C to +60°C

NOTES

Note 1: Remote and GDS-IR sensor installations do not utilize Smart Sensor interface

Note 2: Maximum distance for remote toxic sensor connection is 25ft (3m). Use ST option for longer runs

Note 3: GASMAX II for reactive gases not certified for XP

Note 4: ATEX cert not available for reactive gases

Note 5: Standard ranges; contact factory for others

Note 6: Certain highly reactive target gases require sensor heads for reactive gases

Note 7: GDS-IR requires 4-20mA input option

Note 8: Dual local sensors require Y-adapter

Note 10: Operation below -10°C for sensor types 10 to 32 may require Extended Temp option (local mount sensors only)