

GASMAX BX

The new GASMAX BX gas monitor from GDS Corp delivers quality, performance and advanced features for the most critical gas detection applications. Designed specifically for safety monitoring and leak detection in hazardous areas, the GASMAX BX includes standard dual 4-20mA analog outputs and optional 3X isolated 5A alarm relays and a serial MODBUS interface.

New Intelligent Sensors

Built-in dual channel electronics allow the GASMAX BX to support almost any combination of new GDS Corp Intelligent Sensors or industry-standard 4-20mA analog devices. Intelligent Sensors contain internal microprocessors that perform self-tests, monitor hours-in-service, store calibration values and provide many other advanced features. For example, the user can program a maximum time between sensor calibrations and the Intelligent Sensor will measure that interval and remind the user to perform this all-important task.

Advanced User Interface

The highly visible full color TFT backlit display makes the GASMAX BX gas monitor extremely easy to read and operate, and magnetic switches arranged around the screen allow users to perform calibrations or change settings without opening the enclosure. Bright flashing yellow or red alarm screens give users the ability to instantly recognize alarm conditions and take appropriate action.

Reliable, Dependable, Certified

The GASMAX BX carries a full two-year warranty and all components are fully CSA certified for use in Class I Division 1 hazardous areas (Full certification pending)



- CSA Certified for Class I, Div 1 (Certifications pending)
- Single or dual channel detection of LEL, toxic gases, CO2 or VOCs
- High resolution color TFT display for easy recognition of alarm status
- Dual channel analog inputs for local or remote 4-20mA sensors
- Semi-automated calibration with programmable cal value
- Dual independent 4-20mA analog outputs with 0-4mA pass-through
- Intelligent sensors maintain a record of hours in use
- Power-up and post-calibration delays eliminate false alarms

- Bright display for better visibility in full-sun lighting conditions
- Optional 3x SPDT alarm relays and MODBUS serial port
- Graphic display shows values, units, trend graph, alarm levels
- Security settings allow user to lock critical parameters
- Auto-recognition and upload of Intelligent Sensor information
- Fault supervision circuitry detects failed sensor & transmits warning
- Setup in hazardous area requires only simple magnetic wand
- Manufactured in USA

GASMAX BX SPECIFICATIONS

Power Input	10-30VDC at < 10 watts with relay board (all relays energized)
Display	QVGA color TFT display with value, bar graph and programmable trend graph
Channel One Input	Digital Intelligent Sensor or 4-20mA analog input
Channel Two Input	Digital Intelligent Sensor or 4-20mA analog input
Standard Output	Dual 3-wire 4-20mA current source. Max loop R is 600 ohms @ 24VDC
Optional Outputs	Three programmable SPDT dry-contact relays Programmable slave MODBUS RS-485 serial interface
Environmental	Operating range -40°C to +60°C Sensors are fully temperature compensated for accurate readings across a wide range of environmental conditions Relative humidity to 95% non-condensing with GDS-IR; to 85% non-condensing when using electrochemical sensors
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 Certified for Class I, Div 1, Grps B, C, D. (Certification Pending)

GASMAX BX ORDER GUIDE	
GMBX A-B-C/D-E-F/G [OPTIONS]	
"A, D"	CH1, CH2 SENSOR HEAD 1 0 = None 1 = Local sensor head (SH) 2 = Local SH + splash guard (SG) 3 = Local SH for reactive gases 4 = Local SH + SG for reactive gases 5 = Local mount for GDS-IR 6 = Local mount for GDS-IR (horizontal) 21 = Remote sensor head (SH) 22 = Remote SH + splash guard (SG) 23 = Remote SH for reactive gases 24 = Remote SH + SG for reactive gases 25 = Remote GDS-IR (vertical) 26 = Remote GDS-IR (horizontal)
"B, E"	CH1, CH2 SENSOR TYPE (See GDS Corp Product Configurator)
"C, F"	CH1, CH2 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) or 0 = None
"G"	OUTPUT OPTIONS 0 = Dual 4-20mA output standard 1 = 3X alarm relays plus MODBUS serial
Options	[SS] = Stainless steel enclosure [TAG] = Stainless steel tag [MBJB] = MODBUS junction box [NS] = Ships without sensor [CAL] = Ships with calibration cup [RAIN1] = Rainshield on GDS-IR #1 [RAIN2] = Rainshield on GDS-IR #2

Toxic Sensors		Bridge / mA Sensors		121	Jet-A
10	Oxygen	53	SmartIR % CO2	122	Diesel
11	Carbon Monoxide	61	PID Low (10.6eV)	123	Gasoline
12	Chlorine ⁶	62	PID High (10.6eV)	124	Isopropyl Alcohol
13	Chlorine Dioxide ⁶	64	PID Low (10.0 eV)	125	Acetone
14	Hydrogen	65	PID High (10.0 eV)	126	p-Xylene
15	Hydrogen Sulfide	90	4-20mA input	127	Ethylene Oxide (50%)
16	Hydrogen Cyanide			128	MEK
17	Hydrogen Chloride ⁶	GDS-IR Sensors (LEL)		129	Styrene
18	Hydrogen Fluoride ⁶	105	Butanol	130	Methane v/v
19	Sulfur Dioxide	106	Toluene	131	Propane v/v
20	Ammonia ⁶	107	Isopropyl Acetate	132	Carbon Dioxide (5%)
21	Ozone ⁶	108	Ethane	133	Carbon Dioxide (3.5%)
22	Ethylene Oxide	109	Acetylene	210	Methane (IR2)
23	Arsine	110	Methane	211	Propane (IR2)
24	Silane	1HT	Methane (Temp = 90C)		
25	Fluorine ⁶	111	Propane		
26	Phosgene ⁶	112	Isobutane		
27	Hydrazine	113	Pentane		
28	Nitric Oxide	114	Cyclopentane		
29	Nitrogen Dioxide	115	n-Butane		
30	Mercaptan TBM	116	Ethanol		



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