GASMAX CX Gas Monitor

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

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

✳ Monitor any combination of toxic and combustible gases

✳ High resolution color TFT display for easy recognition of alarm status

✳ Supports both local and remote sensors for easy installation

✳ Non-intrusive, prompted calibration with programmable cal value

✳ Dual independent 4-20mA analog outputs with 0-4mA pass-through

✳ Standard Ethernet port with built-in web server for remote access

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

✳ Backlit display for better visibility in low light conditions

✳ Optional 4x SPDT alarm relays and dual MODBUS serial ports

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

✳ Security settings allow user 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)

GASMAX CX

The new GASMAX CX gas monitor from GDS Corp delivers quality, performance and advanced features for the most critical gas detection applications. Designed especially for situations where gas readings need to be transmitted in real time via a variety of communication options, the GASMAX CX includes dual 4-20mA outputs and built-in Ethernet port with MODBUS/TCP and web server. An optional output board incldues 4X alarm relays and dual serial MODBUS channels with data rates up to 115k bits per second.

Widest Variety of Available Sensors
Built-in dual channel electronics allow the GASMAX CX to support almost any combination of GDS Corp toxic, bridge or 4-20mA sensors. Channel 1 features a dedicated bridge input confi traditional direct catalytic bead sensors, and both channels support the new 10-98xx digital output low-noise sensors. Built-in sensor monitoring circuitry detects sensor faults or warns of missing sensors.

Advanced User Interface
The highly visible full color TFT backlit display makes the GASMAX CX 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 CX carries a full two-year warranty and is fully CSA certifi in Class I Division 1 hazardous areas.

GDS Corp
Gas and Flame Detection

Toxic & Combustible Gas Detection • Controllers • Process Monitors • Calibration Supplies

GASMAX CX SPECIFICATIONS

Power Input	10-30VDC at < 10 watts with relay board (all relays energized)
Display	QVGA color TFT display with value, 30-minute trend and bargraph
Channel One Input	Digital sensor, bridge-style direct sensor or 4-20mA analog input
Channel Two Input	Digital sensor or 4-20mA analog input
Standard Output	Dual 3-wire 4-20mA current source. Max loop R is 600 ohms @ 24VDC Ethernet RJ-45 with built-in web page for remote access
Optional Outputs	Three programmable relays plus dedicated FAULT relay Dual programmable master / slave MODBUS RS-485 serial interfaces
Environmental	Operating range -40°C to +60°C Sensors include sensor heater for low temperature operation 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.
Warranty	2 years on electronics and one year on sensors

AVAILABLE SENSOR TYPES

	Electrochemical				
10	Oxygen	31	Tetrahydrothiophene	112	Isobutane LEL
11	Carbon Monoxide	32	Diborane	113	Pentane LEL
12	Chlorine[6]	33	Hydrogen Sulfi	114	Cyclopentane LEL
13	Chlorine Dioxide[6]		**SmartIR Infrared**	115	n-Butane LEL
14	Hydrogen	50	Methane LEL	116	Ethanol LEL
15	Hydrogen Sulfide	51	Propane LEL	117	Methanol LEL
16	Hydrogen Cyanide	52	Methane Vol	118	Propylene LEL
17	Hydrogen Chloride[6]	53	Carbon Dioxide	119	Ethylene LEL
18	Hydrogen Fluoride[6]		**Photoionization (PID)**	120	Hexane LEL
19	Sulfur Dioxide	61	Low Range (10.6eV)	121	Jet-A LEL
20	Ammonia[6]	62	High Range (10.6eV)	122	Diesel LEL
21	Ozone[6]	64	Low Range (10.0 eV)	123	Gasoline LEL
22	Ethylene Oxide	65	High Range (10.0 eV)	124	Isopropyl Alcohol LEL
23	Arsine			125	Acetone LEL
24	Silane		**Catalytic Bead**	126	p-Xylene LEL
25	Fluorine[6]	70	Methane LEL	127	Ethylene Oxide LEL
26	Phosgene[6]	71	Other (Specify) LEL	128	MEK LEL
27	Hydrazine		**Analog Input**	129	Styrene LEL
28	Nitric Oxide	90	4-20mA Input	130	Methane Volume
29	Nitrogen Dioxide		**GDS-IR Infrared**	131	Propane Volume
		110	Methane LEL	132	Carbon Dioxide 0-5%
30	Mercaptan TBM	111	Propane LEL	133	Carbon Dioxide 0-3%

GASMAX CX ORDER GUIDE

GM CX A - B - C / D - E - F / G [SS]

"A"	CH1 SENSOR HEAD [1]
	0 = None
	1 = Local sensor head
	2 = Local sensor head + splash guard
	3 = Local sensor head for reactive gases
	4 = Local sensor head + SG for reactive gases
	9 = Local mount for GDS-IR
	10= Remote mount for GDS-IR
"B"	CH1 SENSOR TYPE
	0 = None
	Types 10-33
	Types 50-53
	Types 61-65
	Types 70-71
	Type 90
	Types 110-133
"C"	CH1 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
"D"	CH2 SENSOR HEAD
	0 = None
	1 = Local sensor head
	2 = Local sensor head + splash guard
	3 = Local sensor head for reactive gases
	4 = Local sensor head + SG for reactive gases
	9 = Local mount for GDS-IR
	10= Remote mount for GDS-IR
"E"	CH2 SENSOR TYPE
	0 = None
	Types 10-33
	Type 90
	Types 110-133
"F"	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 plus Ethernet
	1 = 4X alarm relays plus dual MODBUS serial

NOTES

Note 1: GASMAX CX not rated for use in hazardous area when used with Type 3 or Type 4 sensor head for reactive gases.

Note 5: Not all sensors are available in all ranges. Contact GDS Corp for details.

Note 6: Reactive gases require use of Type 3 or Type 4 sensor head without stainless steel flame arrestor

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