

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) and dual local sensor mount (above)

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 includes 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 configuration for 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 certified for use in Class I Division 1 hazardous areas.

GDS Corp

Gas and Flame Detection

1245 Butler Road

League City, Texas 77573

409-927-2980 • 409-927-4180 (fax)

www.gdscorp.com • info@gdscorp.com

| 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 |

| TOXIC SENSORS | | BRIDGE / mA SENSORS | | 114 | Cyclopentane |
|---------------|--------------------------------|-----------------------------|--------------------------|-----|-----------------------|
| 10 | Oxygen | 50 | SmartIR LEL (Methane) | 115 | n-Butane |
| 11 | Carbon Monoxide | 51 | SmartIR LEL (Propane) | 116 | Ethanol |
| 12 | Chlorine ⁶ | 52 | SmartIR v/v (Methane) | 117 | Methanol |
| 13 | Chlorine Dioxide ⁶ | 53 | SmartIR % CO2 | 118 | Propylene |
| 14 | Hydrogen | 61 | PID Low (10.6eV) | 118 | Propylene |
| 15 | Hydrogen Sulfide | 62 | PID High (10.6eV) | 119 | Ethylene |
| 16 | Hydrogen Cyanide | 64 | PID Low (10.0 eV) | 120 | Hexane |
| 17 | Hydrogen Chloride ⁶ | 65 | PID High (10.0 eV) | 121 | Jet-A |
| 18 | Hydrogen Fluoride ⁶ | 70 | Catalytic Bead LEL (CH4) | 122 | Diesel |
| 19 | Sulfur Dioxide | 71 | Catalytic Bead LEL | 123 | Gasoline |
| 20 | Ammonia ⁶ | 90 | 4-20mA input | 124 | Isopropyl Alcohol |
| 21 | Ozone ⁶ | | | 125 | Acetone |
| 22 | Ethylene Oxide | | | 126 | p-Xylene |
| 23 | Arsine | | | 127 | Ethylene Oxide (50%) |
| 24 | Silane | GDS-IR SENSORS (LEL) | | 128 | MEK |
| 25 | Fluorine ⁶ | 105 | Butanol | 129 | Styrene |
| 26 | Phosgene ⁶ | 106 | Toluene | 130 | Methane v/v |
| 27 | Hydrazine | 107 | Isopropyl Acetate | 131 | Propane v/v |
| 28 | Nitric Oxide | 108 | Ethane | 132 | Carbon Dioxide (5%) |
| 29 | Nitrogen Dioxide | 109 | Acetylene | 133 | Carbon Dioxide (3.5%) |
| 30 | Mercaptan TBM | 110 | Methane | 210 | Methane (IR2) |
| 31 | Tetrahydrothiophene | 1HT | Methane (Temp = 90C) | 211 | Propane (IR2) |
| 32 | Diborane | 111 | Propane | | |
| 33 | Hydrogen Sulfide | 112 | Isobutane | | |
| 34 | Phosphine | 113 | Pentane | | |



1245 Butler Road
League City, Texas 77573
409-927-2980 • 409-927-4180 (fax)
www.gdscorp.com • info@gdscorp.com

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 5 = Remote sensor head 6 = Remote sensor head + splash guard 10= Remote mount for GDS-IR 24= Remote sensor transmitter 25= Remote sensor transmitter + splash guard 26= Remote sensor transmitter for reactive gases 27= Remote ST for reactive gases + splash guard |
| "B" | CH1 SENSOR TYPE (See GDS Corp Product Configurator) |
| "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 24= Remote sensor transmitter 25= Remote sensor transmitter + splash guard 26= Remote sensor transmitter for reactive gases 27= Remote ST for reactive gases + splash guard |
| "E" | CH2 SENSOR TYPE (See GDS Corp Product Configurator) |
| "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