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

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.
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
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  52  SmartIR v/v (Methane)  117  Methanol
13 Chlorine Dioxide  53  SmartIR % CO2  118  Propylene
14 Hydrogen  61  PID Low (10.6eV)  119  Propylene
15 Hydrogen Sulfide  62  PID High (10.6eV)  120  Hexane
16 Hydrogen Cyanide  64  PID Low (10.0 eV)  121  Jet-A
17 Hydrogen Chloride  65  PID High (10.0 eV)  122  Diesel
18 Hydrogen Fluoride  70  Catalytic Bead LEL (CH4)  123  Gasoline
19 Sulfur Dioxide  71  Catalytic Bead LEL  124  Isopropyl Alcohol
20 Ammonia  90  4-20mA input  125  Acetone
21 Ozone  91  4-20mA input  126  p-Xylene
22 Ethylene Oxide  92  4-20mA input  127  Ethylene Oxide (50%)
23 Arsine  93  4-20mA input  128  MEK
24 Silane  GDS-IR SENSORS (LEL)  129  Styrene
25 Fluorine  105  Butanol  130  Methane v/v
26 Phosgene  106  Toluene  131  Propane v/v
27 Hydrazine  107  Isopropyl Acetate  132  Carbon Dioxide (5%)
28 Nitric Oxide  108  Ethane  133  Carbon Dioxide (3.5%)
29 Nitrogen Dioxide  109  Acetylene  134  Carbon Dioxide (5%)
30 Mercaptan TBM  110  Methane  210  Methane (IR2)
31 Tetrahydrothiophene  1HT  Methane (Temp = 90C)  211  Propane (IR2)
32 Diborane  111  Propane  32  Isobutane
33 Hydrogen Sulfide  112  Isobutane  34  Phosphine

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 1
   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
   5 = 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 1
   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