

Rig Protector Monitoring System

Four Channel Wired / Wireless Portable Protection System for Critical Monitoring Applications

- * Monitor four points using wired or wireless technology
- * Integrated strobe light and optional sounder for maximum attention
- * Built-in support for GASMAX family of wireless gas monitors
- * Optional solar power system with array, battery & charge controller
- * Large LCD display shows values, bar-graph and trend data
- * Rugged cabling with quick-disconnects for rapid deployment
- * Optional relay board with 6x SPDT for per-channel contacts
- * Optional four channel 4-20mA board for current loop output
- * Operates on either +24VDC or 117/240VAC 50/60Hz
- * ACK button silences HORN without affecting alarm relays
- * Touch and magnetic keys for non-intrusive operation in XP areas
- * NEMA 4x approved for Class 1 Div 2 area without purge



The GDS Corp *Rig Protector* Portable Area Protection System is designed to continuously monitor local conditions for toxic, oxygen depletion or combustible gas hazards. The system is constructed for portability, rapid deployment and ease of use.

Versatile Protection

This highly cost-effective, four-channel system based on the C2 *Protector* controller supports any combination of four wired or wireless toxic, oxygen or combustible gas sensors. Quick-connect fittings and interchangeable extension cables enable rapid setup and teardown. The large LCD display and warning LEDs shows engineering units, alarm status, and trend information. An integrated high-visibility strobe and optional audible sounder provide quick notification of hazardous conditions.

Wireless Toxic / H₂S

Using the GASMAX ECx battery-powered gas monitor, perimeter monitoring



for H₂S or any toxic gas is easy. Each GASMAX ECx is completely self-contained and can be placed up to 1 mile from the central controller.

Wired or Wireless Combustible

For combustible monitoring applications, users have a choice of catalytic bead or infrared sensors. GASMAX II gas monitors with rugged, high-strength extension cables deliver a cost-effective solution for distances up to 500 feet. Using remote power, GASMAX IIx wireless combustible monitors can provide monitoring over distances of one mile or more.

Expandability

Up to two C2 *Protector* controllers can be combined for more extensive monitoring applications, and larger systems based on the C1 *Protector* controller can provide centralized monitoring for sixteen or more toxic or combustible gas sensors.

GDS
Corp

Gas and Flame Detection

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Rig Protector SPECIFICATIONS	
Power Input	Controller: 12/24VDC (12 Watt MAX) or 100-240 VAC; when using AC up to 12W available for powering remote sensors GASMAX ECx remote toxic detector: Self-contained, battery operated; no external power required GASMAX II: 12/24VDC (3 Watts MAX) supplied by controller via extension cables GASMAX IIx: 12/24VDC (3 Watts MAX) supplied by local supply; data transmission via wireless
Display	Backlit 128x64 pixel LCD shows trend, bargraph and engineering units; flashing alarm LEDs indicate alarm
Analog Input	Four channel, 4-20mA analog input with dedicated quick-connect
Wireless Input	Optional 900MHz or 2.4GHz wireless radio modem; license free spread spectrum for maximum range and resistance to interference
Analog Output	Optional four channel 4-20mA current loop. Max loop R is 800 ohms with nominal 24VDC
Visual Output	High visibility red strobe (other colors available)
Audible Output	Optional 106dB warning horn sounder Optional 110dB warning horn sounder
Temp	-25°C to +50°C operating (see sensor limitations on GASMAX datasheet)
Housing	Controller: NEMA 4X stainless steel GASMAX: NEMA 7 explosion-proof
Dimensions	Controller: Width 8" (203 mm), Height 10" (254 mm), Depth 5.5" (127 mm) GASMAX: Width 5.4" (137 mm), Height 8" (203 mm), Depth 5" (140 mm)
Approvals	Controller: CSA C22.2 No. 1010.1 & 152 for combustibles & ISA S82.02; UL 1604 / C22.2 No 213 (NEMA 4X = Div 2 Groups A, B, C, D; NEMA 7 = Div 1 Groups B, C, D) EN55011 & EN61000 (CE Mark) GASMAX II: CSA Certified Div 1 & 2 Groups B, C, D. Suitable for XP installations GASMAX ECx & IIx: Designed for hazardous locations (NRTL certification pending)
Warranty	2 years from date of purchase on electronics and one year on sensors.

Rig Protector Order Guide	
RIG / XX / G - H - I - J - K - L	
"XX"	INPUT TYPE 00 = No input board (wireless only) 10 = Four channel 4-20mA analog input for mixed wireless / wired
"G"	DISCRETE RELAY 1 = Add discrete relay board with six additional SPDT 5A relays
"H"	ANALOG OUTPUT 1 = Add 4 channel 4-20mA output
"T"	WIRELESS ² 1 = Add RS-485 / RS-232 MODBUS serial slave interface 2 = Add 900MHz wireless radio (specify local or remote antenna) 3 = Add 2.4GHz wireless radio (specify local or remote antenna)
"J"	AUDIBLE ALARM 2 = Add 106dB audible alarm 3 = Add 112dB audible alarm
"K"	VISUAL ALARM 0 = Standard front panel LEDs 1 = Add Class I Division 2 red strobe 2 = Add non-rated strobe (specify color)
"L"	ENCLOSURE OPTIONS 0 = NEMA 4x fiberglass 1 = NEMA 7 XP enclosure 2 = NEMA 4x stainless steel
GAS MONITORS	
1 - 4	Order GASMAX EC, ECx, II or IIx with -RP suffix for quick connect
EXTENSION CABLES	
C50	50-foot extension cable with high quality quick-disconnect connectors. Can be daisy-chained
C100	100-foot extension cable with high quality quick-disconnect connectors. Can be daisy-chained
POWER SUPPLY OPTIONS	
DC	All items DC input 12 - 30VDC
AC	Controller includes AC power supply with 12W for remote sensors
AC2	Controller contains enhanced AC supply with 50W for remote sensors
SOL	Solar array sized for detectors and geographic location (contact factory)



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