C64 *Protector* Alarm Controller

Advanced Sixty-Four Channel Alarm & Display Controller for Critical Monitoring Applications

- Up to 64 channels of analog, digital, wireless or bridge-type input
- Large color LCD display shows values, bar-graph and trend data
- Built-in support for GASMAX wireless gas monitors
- Up to four RS-485 serial ports allows simulaneous master / slave
- Five standard 5A SPDT relays for A1, A2, A3, HORN, & FAULT
- Up to 256 discrete relays for easy interface to existing circuitry
- Programmable 16 channel relay board makes grouping easy
- Up to sixty-four 4-20mA analog outputs
- Data logging option records minimum, maximum & average values
- Pushbutton zero and span calibration for directly connected sensors
- Operates on 10-30VDC or 110/220V 50/60 Hz AC
- Ethernet web server for remote configuration & backup
- Approvals pending

Available in panel mount, rack mount (2x), NEMA 4X fiberglass or stainless steel or NEMA 7 explosion proof enclosures

The C64 *Protector* Controller is an ideal solution for monitoring up to 64 critical input variables.

Flexibility
Built around 'plug and play' input and output modules, the C64 *Protector* controller can accept signals from wireless monitors, analog sensors, digital sensors, discrete inputs or even direct connection to bridge-style combustible or VOC sensors. Built-in user-prompted calibration mode, three programmable alarm levels per channel, five standard relays (A1, A2, A3, FAULT and HORN), dual RS-485 serial interfaces and wired Ethernet are included in the base configuration. Up to sixty-four 4-20mA analog outputs, 256 discrete relays and wireless radio modems are available as options.

Status "At A Glance"
The high resolution color LCD displays data as trends, bargraphs and calibrated engineering units; a 24-hour trend graph for each channel is always available.

In addition to touch-sensitive buttons, a standard magnetic keypad allows non-intrusive operation in potentially hazardous locations.

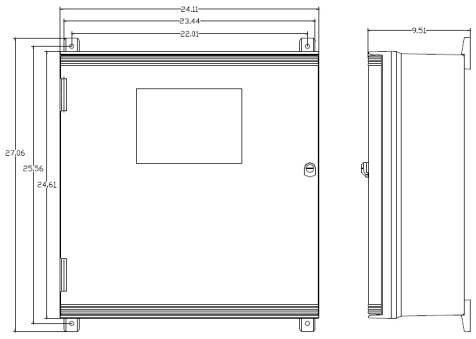
Digitally Connected, Wireless Enabled
The C64 *Protector* controller supports up to four RS-485 serial MODBUS interfaces for maximum flexibility. Available data logging using SD memory cards combines control and data archive functionality in a single package. Configuration data can also be programmed and downloaded using the intergrated SD card slot. Built-in support for GDS Corp GASMAX IIx and ECx wireless gas monitors makes it easy to install and manage a wireless system. Using GDS Corp's *Protector*View software and the built-in interface, a remote display of the controller's real-time status and stored configuration is available across any Ethernet network.

Reliability
The C64 *Protector* is designed from the ground up for critical alarm monitoring. In addition to gas detection, the C64 *Protector* controller is idealy suited for flow measurement, tank level monitoring and other critical alarm applications. The C64 *Protector* is available in panel mount, single or dual rack mount, NEMA 4X fiberglass and stainless steel, and NEMA 7 explosion proof enclosures.

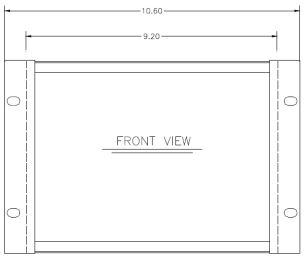
GDS Corp
Gas and Flame Detection

2513 Hwy 646
Santa Fe, Texas 77510
409-927-2980 • 409-927-4180 (fax)
www.gdscorp.com • info@gdscorp.com

C64 *Protector* SPECIFICATIONS	
Power Input	10-30VDC or 110/220 V 50/60Hz AC; 150W, 600W and dual 600W AC power supply available
Display	QVGA 320x240 pixel color LCD shows trend, bargraph and engineering units; five discrete LEDs show standard relay status at all times
Wireless Input	Up to 64 remote GASMAX wireless gas monitors spread across 4 independent RS-485 serial inputs
Analog Input	16, 32, 48 or 64 4-20mA analog inputs into 150 ohms; includes excitation for 2 or 3-wire transmitters 16, 32, 48 or 64 direct bridge sensor inputs; includes individual adjustable power supplies for each channel
MODBUS I/O	Two standard Master/Slave RS-485 half or full duplex serial ports equipped with Tx / Rx LEDs. Two optional isolated M/S RS-485 serial ports
Relay Output	Five standard output relays: A1, A2, A3 FAULT & HORN; SPDT rated 5A@ 30DC/240AC Optional auxiliary relay board with secondary A1, A2, A3, FAULT and HORN; SPDT rated 5A Optional 16 channel discrete relay board (up to 16x) programmed for groups of 16 channels Optional 16 channel programmable relay board (1x)
Analog Output	Optional 16, 32, 48 or 64 4-20mA output (10 bit D/A). Max loop R is 800 ohms with nominal 24VDC supply
Ethernet I/O	Standard ethernet interface with built-in web server
Temp	-25°C to +60°C
Mounting	Panel mount for 19” rack; NEMA 4X wall-mount in non-metallic or stainless steel; NEMA 7 wall-mount suitable for Class 1 Div 1 Groups B, C, D
Dimensions	NEMA 4X fiberglass: Width 24” Height 27” Depth 9.5”
Approvals	Pending
Warranty	2 years from date of purchase



NEMA 4X Fiberglass



Panel Mount

C64 *Protector* Order Guide	
C64 / A-B-C-D / E-F-G / H / J-K / L-M-N / P-R	
“A”	PM = Panel / rack mount for 19” rack N4 = NEMA 4X wall-mount SS = NEMA 4 stainless steel XP = NEMA 7 wall-mount CP = NEMA 4X compact
“B”	11 = 1x 16 ch analog input board 12 = 2x 16 ch analog input boards 13 = 3x 16 ch analog input boards 14 = 4x 16 ch analog input boards
“C”	21 = 1x 16 ch bridge input board 22 = 2x 16 ch bridge input boards 23 = 3x 16 ch bridge input boards 24 = 4x 16 ch bridge input boards
“D”	Total number of bridge sensor input modules required (1 module = 2 ch)
“E”	1 = Aux standard relay board with 5x 5A SPDT dry contact relays
“F”	1 - 16 = Add up to sixteen 16-channel discrete relay output boards with 5A SPDT dry contact relays
“G”	1 = Add single programmable 16 channel relay output board with 5A SPDT dry contact relays
“H”	1 - 4 = Add up to four 16-channel 4-20mA analog output boards
“J”	1 = Add 100db piezo alarm 2 = Add 110db external horn
“K”	1-3 = Add local CI D2 strobe 4-6 = Add local non-rated strobe
“L”	1 = 900Mhz wireless module (single) 2 = 900Mhz wireless module (dual) 3 = 2.4Ghz wireless module (single) 4 = 2.4Ghz wireless module (dual)
“M”	1 = Isolated dual channel RS-485 serial interface (4 total)
“N”	1 = Local alarm ack button on exterior of NEMA 4X enclosure 2 = Remote alarm ack button in NEMA 7 explosion-proof j-box
“P”	1 = NEMA 4X expansion (5 slots) 2 = NEMA 7 expansion (2 slots) 3 = 19” rack expansion (4 slots) 4 = Dual 19” expansion (8 slots)
“R”	1 = Standard 150W power supply 2 = Optional 600W power supply 3 = Optional dual 600W supplies

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