

# Protector32M System Controller

## 32-Channel MODBUS Controller for GDS Corp Wired Gas Detection Systems

- \* 32-Channel System Controller for MODBUS wired systems
- \* DC power (12-35V) or optional AC power input options
- \* Optional 150W AC Power Supply to drive local strobes or horns
- \* Operating temperature range from -40°C to +70°C
- \* Surge protection on AC, DC and MODBUS inputs
- \* 160 x 104 Pixel Graphic LCD display with LED backlight
- \* Five Push-Button User Interface including SCAN and RESET
- \* Front panel LEDs for Power and Fault indication
- \* Relays support Latching and Non-Latching Operational Modes
- \* Four Dry-Contact relays rated at 4A maximum with fuses
- \* Wet-Contact (DC) Fault Terminal drives FAULT indicator directly
- \* RS-485 MODBUS serial output port
- \* Manufactured in USA



The GDS Corp **Protector32M** System Controller is designed to monitor up to 32 channels of MODBUS data from GDS Corp wired gas detectors. An internal 150W power supply and four dry-contact alarm relays directly support local or remote strobes or horns.

The calibrated value of each input is shown on the graphical LCD screen along with alarm and status information.

The **Protector32M** includes four dry-contact alarm relays with user-adjustable alarm settings that may be

set to either latching or non-latching operation. When latched, the RESET / ESC button can be used to clear the latched alarm.

The **Protector32M** controller includes an RS-485 serial MODBUS output that can allow remote PLCs or DCSs to monitor the input channels in real time.

When configured with an optional AC power supply, the **Protector8/12** can supply up to 140 watts of external DC power for connected devices.

When using MODBUS communications, GDS Corp recommends a MODBUS Wiring Junction Box (MJB) be installed on each GASMAX GX gas detector to ensure easy wiring and field startup.

Please contact your local representative or GDS Corp for more information on the **Protector8/12** system controller.



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<b>PROTECTOR32M SPECIFICATIONS</b>	
<b>Power Input</b>	12-35 VDC maximum current draw 275 mA Optional 150W AC Supply 85 to 264VAC
<b>Protection</b>	Power Electromagnetic Interference Filter (RFI) RS-485 and RS-232 Output Surge Suppression
<b>Display</b>	160x104 resolution graphical LCD screen Transflective (sunlight readable) with LED backlight
<b>User Interface</b>	Five manual push buttons (Menu, Add, Sub, Scan/Hold, Reset/Esc)
<b>Signal Input</b>	RS-485 serial MODBUS master port 9600 Baud Up to 32 channels
<b>Alarm Settings</b>	Four individually configurable alarm setpoints
<b>Standard Output</b>	RS-485 Serial slave port
<b>Relay Out</b>	Four dry-contact relays with 4A replaceable fuses Wet contact FAULT output relay
<b>Optional Radio</b>	None
<b>Temp</b>	-40C to +70C operating range
<b>Housing</b>	NEMA 4X fiberglass enclosure with clear window Four mounting brackets, 6" wide by 12.25" tall Maximum mounting bolt size 5/16" (8 mm) diameter
<b>Dimensions</b>	10" H x 8" W x 6" D (Does not include strobes or horns) 8,5 lbs
<b>Certifications</b>	For use in non-hazardous areas only
<b>Hardware Warranty</b>	One-year limited warranty

<b>PROTECTOR32M Order Guide</b>	
<b>GDS-P32M-CHAN-OPT1-OPT2-OPT3 [X]</b>	
<b>CHAN</b>	32 = 32 Channels
<b>OPT1</b>	1 = 24VDC Input Power 2 = 85 to 264VAC Input Power
<b>OPT2</b>	0 = No Strobe 1 = Red Strobe 2 = Amber Strobe 3 = Blue Strobe
<b>OPT3</b>	0 = No Horn 1 = Audio Alarm 102 dB, Dual Tone
<b>[X]</b>	[TAG] = Stainless steel tag [XP] = NEMA 7 Explosion Proof Enclosure

<b>NOTES</b>
Note 1: None



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