

# Protector2 System Controller

Two-Channel Controller for all GDS Corp Wired Gas Detectors, Sample Draw Monitors and Process Monitors

- \* Supports one or two 4-20mA analog input channels
- \* DC power (12-35V) or External AC power input options
- \* Optional 25 Watt Power Supply accepts 85 to 264VAC Input
- \* Operating temperature range from -20°C to +70°C
- \* Surge protection on AC, DC and 4-20mA Analog Inputs
- \* 160 x 104 Pixel Graphic LCD display with LED backlight
- \* Four Push-Button User Interface including Alarm RESET
- \* Front Panel Status LEDs for Power and Fault
- \* Relays support Latching and Non-Latching Operational Modes
- \* Four Dry-Contact relays rated at 4A maximum
- \* Wet-Contact (DC) Fault Terminal drives FAULT indicator directly
- \* RS-485 MODBUS serial output port
- \* Manufactured in USA



The GDS Corp **Protector2** System Controller is designed to provide power for and monitor signals from one or two industry-standard 4-20mA devices, including all GDS Corp gas monitors, sample draw monitors and process monitors.

The **Protector2** has two ESD-protected analog inputs that operate over the full range of 4-20mA devices. The calibrated value of each input is shown on the graphical LCD screen along with alarm and status information.

The **Protector2** 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 **Protector2** controller also 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 external AC power supply, the **Protector2** can supply up to 25 watts of external DC power for connected devices.

Please contact your local representative or GDS Corp for more information on the **Protector2** system controller.



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<b>PROTECTOR2 SPECIFICATIONS</b>	
<b>Power Input</b>	12-35VDC Standard (225 mA maximum) Optional external 25 watt 85 to 264VAC power supply
<b>Protection</b>	Power Electromagnetic Interference Filter (RFI) 4-20mA Input Surge Suppression 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>	Four manual push buttons (Menu, Add, Sub, Reset / Esc)
<b>Analog Input</b>	Two industry-standard 4-20mA current loop inputs with DC source excitation
<b>Alarm Settings</b>	Individual per channel
<b>Standard Output</b>	Standard 2-wire loop interface, 4-20 mA during normal operation
<b>Relay Out</b>	Four dry-contact relays rated for 4A resistive with replaceable fuses
<b>Digital Out</b>	RS-485 Serial slave port
<b>Optional Radio</b>	None
<b>Temp</b>	-20°C to +70°C operating range
<b>Housing</b>	NEMA 4x fiberglass enclosure with window
<b>Dimensions</b>	8" L x 8" W x 4" H (Does not include strobes or horns) 8.2 lbs
<b>Certifications</b>	For use in non-hazardous areas only
<b>Hardware Warranty</b>	One-year limited warranty

<b>PROTECTOR2 Order Guide</b>	
<b>GDS-P2-CHAN-OPT1-OPT2-OPT3</b>	
<b>CHAN</b>	2 = Two Analog Input Channels
<b>OPT1</b>	1 = +12 to +35VDC 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>NOTES</b>
Note 1: None



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