

Protector4 System Controller

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

- * Supports up to four 4-20mA analog input channels
- * DC power (12-35V) or AC power input options
- * 75 Watt DC Power Supply accepts 85 to 264VAC Input
- * Operating temperature range from -40°C to +70°C
- * Surge protection on AC, DC and 4-20mA Analog Inputs
- * 160 x 104 Pixel Graphic LCD display with LED backlight
- * Five Push-Button User Interface including SCAN and 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 **Protector4** System Controller is designed to provide power for and monitor signals from up to four industry-standard 4-20mA devices, including all GDS Corp gas monitors, sample draw monitors and process monitors.

The Protector4 has four 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 **Protector4** 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 **Protector4** 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 optional AC power supply, the **Protector4** can supply up to 65 watts of external DC power for connected devices.

Please contact your local representative or GDS Corp for more information on the **Protector4** system controller.



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PROTECTOR4 SPECIFICATIONS	
Power Input	85 to 264VAC 12-35VDC (Optional); DC current draw 275 mA maximum
Protection	Power Electromagnetic Interference Filter (RFI) 4-20mA Input Surge Suppression RS-485 and RS-232 Output Surge Suppression
Display	160x104 resolution graphical LCD screen Transflective (sunlight readable) with LED backlight
User Interface	Five manual push buttons (Menu, Add, Sub, Scan / Hold, Reset / Esc)
Analog Input	Four Industry-standard 4-20mA current loop inputs (+DC source excitation)
Alarm Settings	Individual per channel
Standard Output	Standard 2-wire loop interface, 4-20 mA during normal operation
Relay Out	Four dry-contact relays rated for 4A resistive with replaceable fuses
Digital Out	RS-485 Serial slave port
Optional Radio	None
Temp	-40C to +70C operating range
Housing	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
Dimensions	10" L x 8" W x 6" H (Does not include strobes or horns)
Certifications	For use in non-hazardous areas only
Hardware Warranty	One-year limited warranty

PROTECTOR4 Order Guide	
GDS-P4-CHAN-OPT1-OPT2-OPT3 [X]	
CHAN	4 = Four Analog Input Channels
OPT1	1 = 24VDC Input Power 2 = 85 to 264VAC Input Power
OPT2	0 = No Strobe 1 = Red Strobe 2 = Amber Strobe 3 = Blue Strobe
OPT3	0 = No Horn 1 = Audio Alarm 102 dB, Dual Tone
[X]	[TAG] = Stainless steel tag [XP] = NEMA 7 Explosion Proof Enclosure

NOTES
Note 1: None



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