Protector12 System Controller

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

- Supports up to twelve 4-20mA analog input channels
- DC power (12-35V) or 120 VAC power input options
- 150W AC Power Supply to power sensors or strobes & horns
- Operating temperature range from -40ºC to +70ºC
- 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 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 ***Protector12*** System Controller is designed to provide power for and monitor signals from up to twelve industry-standard 4-20mA devices, including all GDS Corp gas monitors, sample draw monitors and process monitors.

The ***Protector12*** has twelve 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 ***Protector12*** 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 ***Protector12*** 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 ***Protector12*** can supply up to 140 watts of external DC power for connected devices.

Please contact your local representative or GDS Corp for more information on the ***Protector12*** system controller.

GDS Corp
Gas and Flame Detection

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PROTECTOR12 SPECIFICATIONS	
Power Input	120VAC or 12 to 35VDC Input Power Maximum system current draw 300 mA for eight channels or 325 mA for 12 channels
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	Either eight or twelve industry-standard 4-20mA current loop inputs with +24V 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 with 4A 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	12" L x 10" W x 6" H (Does not include strobes or horns) 12,2 lbs
Certifications	For use in non-hazardous areas only
Hardware Warranty	One-year limited warranty

PROTECTOR12 Order Guide	
GDS-P12-CHAN-OPT1-OPT2-OPT3-OPT4 [X]	
CHAN	12 = Twelve Analog Input Channels
OPT1	2 = 120VAC or 12 to 35VDC 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
OPT4	0 = No Wiring Expansion Enclosure 1 = Wiring Expansion Enclosure 2 = Wiring Expansion with 4 IS Barriers 3 = Wiring Expansion with 8 IS Barriers 4 = Wiring Expansion with 12 IS Barriers
[X]	[TAG] = Stainless steel tag [XP] = NEMA 7 Explosion Proof Enclosure

NOTES
Note 1: None

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