

Protector32-RFD Wireless Controller

32-Channel Wireless / 4-Channel Wired System Controller with Relays, MODBUS and Data Logging Capability

- * Supports 32 Wireless Gas Monitors, Signal or State Transmitters
- * Four dedicated analog inputs for wired sensors (32 total)
- * Operates on 12-35VDC input or 110/220 VAC power supply
- * Operating temperature range from -40°C to +50°C
- * Surge protection on AC, DC and 4-20mA Analog Inputs
- * 800x480 full color resistive touch-screen for setup and display
- * 2GB removable USB drive for data logging and diagnostics
- * Four user-programmable dry-contact relays with replaceable fuses
- * Relays support Latching and Non-Latching Operational Modes
- * Status indicators for system and detector fault conditions
- * Wet-Contact (DC) Fault Terminal drives FAULT indicator directly
- * RS-485 MODBUS serial output port
- * Manufactured in USA

The GDS Corp **Protector32-RFD** Wireless System Controller is designed to monitor and alarm on 900 MHz or 2.4 GHz wireless signals from up to 32 GDS Corp GASMAX MX or GASMAX CS wireless gas monitors, GASMAX GX wired gas monitors (when equipped with optional radio module), GDS-58X signal transmitters or GDS-59X switch state transmitters. In addition, the **Protector32-RFD** includes four local analog inputs for wired detectors (32 channels total).

In addition to a primary **Protector32-RFD** controller, additional **Protector32-RFD** controllers can be installed to monitor the same wireless signals and generate alarm or data outputs in different physical locations.

The **Protector32-RFD** includes four dry-contact alarm relays with user-adjustable alarm settings that may be set to either latching or non-latching operation. The **Protector32-RFD** controller also includes an RS-485 serial MODBUS output that can allow remote PLCs or DCSs to monitor all 32 input channels in real time.

A large 800x480 resistive touch-screen display shows current readings and allows for easy setup / configuration. The touchscreen allows the user to view trend information, real-time gas values, time since last zero or span calibration and channel and radio setup / configuration.



The **Protector32-RFD** includes a 2GB removable USB drive that records up to two months (60 days) of received signal data. Weekly trends can be viewed on the touchscreen and older data is directly accessible as CSV files stored on the USB drive when inserted in any standard PC.

When configured with an optional AC power supply, the **Protector4** can supply up to 140 watts of external DC power for connected devices such as strobes and horns.

Please contact your local representative or GDS Corp for more information on the **Protector32-RFD** system controller.



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PROTECTOR32-RFD SPECIFICATIONS	
Power Input	24VDC regulated (nominal 22 to 26VDC) input* DC current draw 300 mA max with no analog inputs; up to 3A max with four analog input devices Optional 85 to 264VAC 150 Watt AC power supply *DC wiring from remote supply should be less than 50 feet max
Protection	Power Electromagnetic Interference Filter (RFI) 4-20mA Input Surge Suppression RS-485 and RS-232 Output Surge Suppression
Display	800x480 resolution graphical resistive touch-screen
User Interface	High resolution graphical display
Wireless Input	External N-Female RF Connector 32 Channel of Wireless Input 900 MHz: 52 Networks 2.4 GHz: 78 Networks 255 Channels per network
Analog Input	4 Channel Analog Inputs Industry-standard 4-20mA current loop with source excitation
Alarm Settings	Individual per channel
Relay Out	Four dry-contact relays rated for 4A resistive with replaceable fuses Dedicated wet-contact Fault relay
Digital Out	RS-485 Serial slave port
Temp	-20C to +50C 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" H x 10" W x 6" D (Does not include strobes or horns) 12.2 lbs
Certifications	For use in non-hazardous areas only
Hardware Warranty	One-year limited warranty

PROTECTOR32-RFD Order Guide	
GDS-P32RFD-CHAN-OPT1-OPT2-OPT3 [X]	
CHAN	32 = Four Analog Input Channels
OPT1	1 = 900 MHz 2 = 2.4 GHz
OPT2	1 = 24VDC <i>Regulated Input Power</i> 2 = 85 to 264VAC Input Power
OPT3	0 = No Strobe 1 = Red Strobe 2 = Amber Strobe 3 = Blue Strobe
OPT4	0 = No Horn 1 = Audio Alarm 102 dB, Dual Tone
[X]	[TAG] = Stainless steel tag

NOTES
Note 1: If used with 24V solar power system, a charge controller with low and high voltage cutout capability is highly recommended.



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