Protector6-RF Wireless Controller

Six-Channel Wireless System Controller for GDS Corp Wireless Gas Monitors, Signal Transmitters and Switch State Transmitters

* Monitors up to six wireless gas detectors, signal or switch inputs

* DC power (12-35V) or AC power input options

* Optional WirelessHART module with external 2.4GHz antenna

* Operating temperature range from -40ºC to +70ºC

* Three user-programmable 4A relays with replaceable fuses

* 128 x 64 Pixel Graphic LCD display with LED backlight

* Three Push-Button User Interface for easy setup

* Front Panel Status LEDs for Power and Fault

* Relays support Latching and Non-Latching Operational Modes

* 900 MHz and 2.4 GHz radio options for optimal performance

* Wet-Contact (DC) Fault Terminal drives FAULT indicator directly

* RS-485 MODBUS serial output port

* Manufactured in USA

The GDS Corp *Protector6-RF* Wireless System Controller is designed to monitor and alarm on 900 MHz or 2.4 GHz wireless signals from up to six 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.

The *Protector6-RF* is an ideal solution for small or medium-sized gas detection systems or as a wireless interface for distributed systems that include both wired and wireless monitors. An optional strobe or horn sounder can be installed for real-time local warning indications. The small size allows multiple Protector6-RF units to be installed in the immediate vicinity of monitored areas, giving technicians information on any toxic gas that may be present.

The *Protector6-RF* includes three dry-contract alarm relays with user-adjustable alarm settings that may be set to either latching or non-latching operation, as well as a dedicated wet-contact FAULT output.

The *Protector6-RF* controller includes an RS-485 serial MODBUS output that can allow remote PLCs or DCSs to monitor the selected input channels in real time. An optional WirelessHART module is available that utilizes the MODBUS interface to provide HART connectivity

When configured with optional AC power supply, the *Protector6-RF* can supply up to 65 watts of external DC power for connected horns and strobe devices.

Please contact your local representative or GDS Corp for more information on the *Protector6-RF* wireless system controller.

PROTECTOR6-RF SPECIFICATIONS

Power Input	110/220VAC 12-35VDC current draw 275 mA maximum 75W AC power supply for driving lights and horns
Protection	Power Electromagnetic Interference Filter (RFI) 4-20mA Input Surge Suppression RS-485 and RS-232 Output Surge Suppression
Display	128x64 resolution graphical LCD screen Transflective (sunlight readable) with LED backlight
User Interface	Three push buttons (Menu, Add, Sub)
Analog Input	None
Wireless Input	Six wireless channels, user-programmable 900 MHz radio: 52 Unique Networks 2.4 GHz radio: 78 Unique Networks 255 addresses per network
Alarm Settings	Three individual alarm setpoints per channel
Analog Output	None
Relay Out	Three dry-contact relays rated for 4A resistive with replaceable fuses Single wet-contact FAULT output
Digital Out	RS-485 Serial MODBUS slave port OR *WirelessHART*® Interface
Temp	-30ºC to +70ºC operating range
Housing	NEMA 4X fiberglass enclosure with clear window
Dimensions	8" L x 8" W x 4" H (Does not include strobes or horns) 12/8 lbs
Certifications	For use in non-hazardous areas only
Hardware Warranty	One-year limited warranty

PROTECTOR6-RF Order Guide

GDS-P6RF-CHAN-OPT1-OPT2-OPT3-OPT4/OPT5 [X]	
CHAN	6 = Six wireless input channels
OPT1	1 = 900 MHz radio 2 = 2.4 GHz radio
OPT2	1 = 12-35VDC Input Power 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
OPT5	0 = RS-485 Serial MODBUS port 1 = WirelessHART Interface Module
[X]	[TAG] = Stainless steel tag

NOTES
Note 1: None

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Toxic & Combustible Gas Detection • Controllers • Process Monitors • Calibration Supplies