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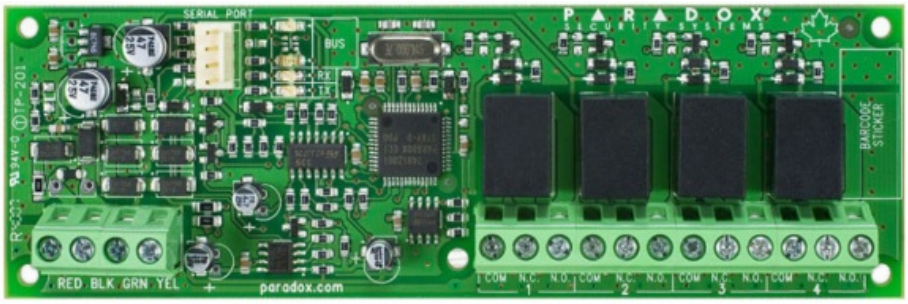
PARADOX PGM4-TI02 4-PGM Expansion Module



Technical Specifications

Power input:	Typically 11 to 16 Vdc
Number of outputs:	4 form “C” relays rated @ 125V, 5A resistive load
Current Consumption:	Typical 13mA, 150mA max. (all PGMs active)
Humidity:	95% maximum

Product Usage Instructions

Installation

Connect the four terminals labeled RED, BL, K, GRN, YEL of the module to the corresponding terminals on the control panel’s four-wire combus as shown in the connection drawing.

Programming Method:

The PGM4 can be programmed using the keypad as well as the WinLoad software.

Entering Programming Mode:

1. Hold the [0] key and enter the [INSTALLER CODE].
2. Enter module programming mode (EVO / NE = [4003], DGP-848 = [953]).
3. Enter the PGM4’s 8-digit [SERIAL NUMBER] located on the PC board sticker.
4. Enter the 3-digit [SECTION] you wish to program.
5. Turn the desired option On/Off or key in the required data.

What’s New with V3.0

- The PGM4 is now in-field upgradable using WinLoad software (V4.4 and higher)
- The PGM4 is now compatible with Magellan, Spectra SP,, and Esprit E55 panels

Introduction

The PGM4 expansion module (previously APR3-PGM4) provides 4 programmable outputs to Digiplex, Spectra, Esprit E55, or MG/SP systems. The PGM4 automatically

detects the system to which it is connected and adjusts its internal communication parameters accordingly.

Compatibility

Control Panels

Digiplex:	DGP-848 and NE96 (all versions)
EVO:	EVO96, EVO48, EVO192 (all versions)
MG/SP:	MG5000, MG5050 SP5500, SP6000, SP7000 (V3.0 or higher)
E-Series: Esprit E55 (V2.0 or higher)	
Spectra:	1759MG, 1728, 1738 (V2.0 or higher)

Software

WinLoad: (V4.4 or higher)

Installation

Connect the four terminals labeled RED, BL, K, GRN, YEL of the module to the corresponding terminals on the control panel's four-wire combus as shown in the connection drawing (see Figure 1).

Programming Method

The PGM4 can be programmed using the keypad as well as the WinLoad software.

Entering Programming Mode

Digiplex EVO	1. Hold the **[0]** key and enter the **[INSTALLER CODE]**. 2. Enter module programming mode (EVO / NE = **[4003]**, DGP-848 = **[953]**). 3. Enter the PGM4's 8-digit **[SERIAL NUMBER]** located on the PC board sticker. 4. Enter the 3-digit **[SECTION]** you wish to program. 5. Turn the desired option On/Off or key in the required data.
Other Compatible Panels	See the Programmable Output Programming information in the panel's Programming Guide.

Upgrading the Firmware

The PGM4 firmware can be upgraded through WinLoad using a CONV4USB RS-485/RS-232 Converter (using a serial connection) or a 307USB Direct Connect Interface. Refer to the firmware upgrade instructions found at: paradox.com > Software > WinLoad > Firmware Upgrade Instructions.

Programming with MG/SP, Spectra, and Esprit E55

To program PGMs in an MG/SP, E5.5, or Spectra system, see the programmable output programming information in the panel's Programming Guide.

Programming with Digiplex

Section Feature

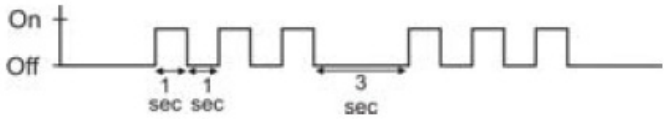
PGM Output Type

0/0/0 = Steady

0/0/1 to 2/5/4 = Pulsed x 80ms

e.g. 0/2/5/ = ON 2 seconds – OFF 2 seconds

2/5/5 = Pulsed Fire:



[191] = PGM1	___/___/___(000 – 255)
[192] = PGM2	___/___/___(000 – 255)
[193] = PGM3	___/___/___(000 – 255)
[194] = PGM4	___/___/___(000 – 255)

PGM Options

[1] PGM deactivation after

See the table on the right

[2] PGM base time

OFF = timer in seconds, ON = timer in minutes

[3] Flexible PGM deactivation

See the table on the right

[4] PGM initial state

OFF = normally open, ON = normally closed

[119] = PGM1	**[5] Reset the timer on activation event**

[129] = PGM2	OFF = do not reset, ON = reset **[6] to [8]** N/A
[139] = PGM3	
[149] = PGM4	

PGM Timer

Enter a 3-digit decimal value between 001 and 255. To determine whether the value w ill be in seconds or minutes, see *PGM Base Time* in *PGM Options* above.

[118]	PGM1____/____/____(000 – 255)
[128]	PGM2____/____/____(000 – 255)
[138]	PGM3____/____/____(000 – 255)
[148]	PGM4____/____/____(000 – 255)

PGM Activation Event

Use the PGM Programming Table in Appendix 1 of the *Module Programming Guide* to program the PGM activation event.

		Event Group	**Feature Group**	**Start #**	**End #**
[110] to **[113]**	PGM1	**[110]**	**[111]**	**[112]**	**[113]**
[120] to **[123]**	PGM2	**[120]**	**[121]**	**[122]**	**[123]**
[130] to **[133]**	PGM3	**[130]**	**[131]**	**[132]**	**[133]**
[140] to **[143]**	PGM4	**[140]**	**[141]**	**[142]**	**[143]**

PGM Deactivation Event

Use the PGM Programming Table in Appendix 1 of the *Module Programming Guide* to program the PGM deactivation event.

If the time base selection option is set to follow the PGM deactivation event, the PGM will return to its normal state when the programmed deactivation event occurs.

		Event Group	Feature Group	Start #	End #	
[114] to **[117]**	PGM1	**[114]**	**[115]**	**[116]**	**[117]**	
[124] to **[127]**	PGM2	**[124]**	**[125]**	**[126]**	**[127]**	
[134] to **[137]**	PGM3	**[134]**	**[135]**	**[136]**	**[137]**	
[144] to **[147]**	PGM4	**[144]**	**[145]**	**[146]**	**[147]**	
[100] = ALL **[101] = PGM1** **[102] = PGM2** **[103] = PGM3** **[104] = PGM4**	**PGM Test Mode** PGMs are activated for 8 seconds to verify correct operation.					

Figure 1: PGM4 Overview

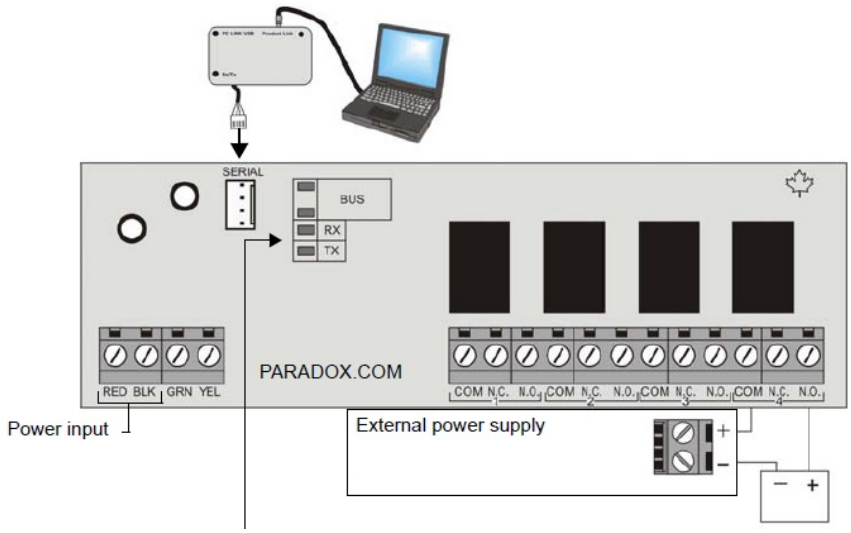
Firmware Upgrade

See the WinLoad document Firmware Upgrade Instructions at: paradox.com – Software – WinLoad – Firmware Upgrade Instructions

External Power Supply

Recommended: Paradox PS-817 1.75A Switching Power Supply for any device such as

a light, siren, or other electronic device.



LED Indicators

- BUS (Red): Indicates a problem with the module. RX: Flashes when receiving information from the panel.
- TX: Flashes when transmitting information to the panel.

Bus (blue)	Bus (red)	RX	TX	Condition
—	ON	OFF	OFF	Short on GRN or YEL
—	ON	OFF	ON	Wrong data / invalid combustion address (too many modules)
—	ON	ON	ON	Combus lines reversed
flash	—	—	—	Firmware upgrade mode
—	flash	—	—	Combustion power is too low.
—	flash	flash	flash	Locate mode

Warranty

For complete warranty information on this product, please refer to the Limited Warranty Statement found on the website www.paradox.com/terms. Your use of the Paradox product signifies your acceptance of all warranty terms and conditions. Spectra,

Magellan, Esprit E55, Digiplex, and Digiplex EVO are trademarks or registered trademarks of Paradox

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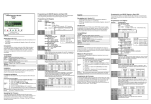
FAQs

What are the compatible control panels for PGM4?
The compatible control panels are:

- Digiplex: DGP-848 and NE96 (all versions)
- EVO: EVO96, EVO48, EVO192 (all versions)
- MG/SP: MG5000, MG5050, SP5500, SP6000, SP7000 (V3.0 or higher)
- E-Series: Esprit E55 (V2.0 or higher)
- Spectra: 1759MG, 1728, 1738 (V2.0 or higher)

How can I program the PGM options?
To program PGM options, follow the instructions provided in the programmable output programming information in the panel's Programming Guide.

Documents / Resources

	PARADOX PGM4-TI02 4-PGM Expansion Module [pdf] Instruction Manual PGM4-TI02, APR3-PGM4, V3.0, PGM4-TI02 4-PGM Expansion Module, PGM4-TI02, 4-PGM Expansion Module, Expansion Module, Module

References

- Paradox - Headquarters
- Paradox
- Paradox - Headquarters
- Paradox - Headquarters
- User Manual

Paradox

4-PGM Expansion Module, APR3-PGM4, Expansion Module, Module, Paradox, PGM4-TI02, PGM4-TI02 4-PGM Expansion Module, V3.0

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PARADOX PS817 1.75A Switching Power Supply Owner's Manual

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