

S P E C T R A[®]

4-PGM Expansion Module V2.1 (APR3-PGM4)



Instructions

APR3PGM4S-EI03

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)
Power-up indication:	Green LED illuminates
Proper operation:	Red LED flashes
Combustion fault indication:	Red LED flashes 1 sec. On & 1 sec. Off
Humidity:	95% maximum
Operating Temp.:	0°C to 50°C (32°F to 122°F)
Compatibility:	Any Spectra 1759EX Any Spectra 1728/EX or 1738/EX control panel V2.0 or higher Any Digiplex or DigiplexNE control panel

INSTALLATION

Connect the four terminals labeled **RED**, **BLK**, **GRN** and **YEL** of the module to the corresponding terminals on the control panel as shown in Figure 1 on the other side of this sheet.

AUTO-PANEL RECOGNITION

This is a feature that allows the APR3-PGM4 to be used with either the Spectra, Digiplex or DigiplexNE. When connected to the combust, the module will automatically detect which system it is connected to and adjust its internal communication parameters accordingly. It allows the APR3-PGM4 to be connected to any Digiplex or DigiplexNE control panel as well as a Spectra control panel (see compatibility specification in the **Specifications** section above).

PROGRAMMING METHOD

To program the APR3-PGM4, you must enter "Programming Mode" using any keypad in the system:

1. Press [ENTER].
2. Key in your [INSTALLER CODE].
3. Key in the 3-digit [SECTION] you wish to program.
4. Turn the desired option ON/OFF or key in the required data.

The module can also be programmed using the WinLoad Software. Refer to *WinLoad's Online Help* for information on programming with WinLoad.

SECTION [500] - OPTION [1] (PGM1)
OPTION [2] (PGM2)
OPTION [3] (PGM3)
OPTION [4] (PGM4)

PGM TIME BASE SELECTION

Options [1] to [4] in section [500] define the time value for the corresponding PGM Timers. Each PGM can be programmed with a different PGM Time Base.

Option OFF = The PGM Timer is in seconds

Option ON = The PGM Timer is in minutes

SECTIONS: PGM1 - [501]
PGM2 - [502]
PGM3 - [503]
PGM4 - [504]

PGM TIMER

When a PGM output activates and a value is programmed in its corresponding PGM Timer, the PGM will remain activated until the programmed value has elapsed. For each PGM enter a 3-digit decimal value between **001** and **255**. Refer to the *PGM Time Base Selection* to determine whether the value will be in seconds or minutes. If **000** is programmed into sections [501] to [504], the corresponding PGM will deactivate according to its PGM Deactivation Event.

SECTIONS: PGM1 - [505]
PGM2 - [507]
PGM3 - [509]
PGM4 - [511]

PGM ACTIVATION EVENT

A PGM Activation Event determines which event will activate a PGM output. The APR3-PGM4's PGM Activation Events are programmed in the same manner as those in the control panel. Each PGM can be programmed with a different activation event. Use the PGM Programming Table in a *Spectra System Programming Guide* to program the PGM Activation Events.



In addition to the events listed in the Spectra PGM Table, a PGM can be programmed to follow a programmed time according to the 24-hour clock.

Program: Group = 80
 Sub Group = hour (2-digit)
 Partition = minutes (2-digit)

For example, to program PGM 1 to activate at 8:45AM, enter section [505] and program Group = 80, Sub Group = 08 and Partition = 45.

SECTIONS: PGM1 - [506]
PGM2 - [508]
PGM3 - [510]
PGM4 - [512]

PGM DEACTIVATION EVENT

When a PGM output is activated and **000** is programmed in its PGM Timer, the PGM will return to its normal state when its programmed PGM Deactivation Event occurs. The APR3-PGM4's PGM Deactivation Events are programmed in exactly the same way as those in the control panel. Each PGM can be programmed with a different deactivation event. Use the PGM Programming Table in a *Spectra System Programming Guide* to program the PGM Deactivation Events.



In addition to the events listed in the Spectra PGM Table, a PGM can be programmed to follow a programmed time according to the 24-hour clock.

Program: Group = 80
 Sub Group = hour (2-digit)
 Partition = minutes (2-digit)

For example, to program PGM 1 to deactivate at 9:30PM, enter section [506] and program Group = 80, Sub Group = 21 and Partition = 30.



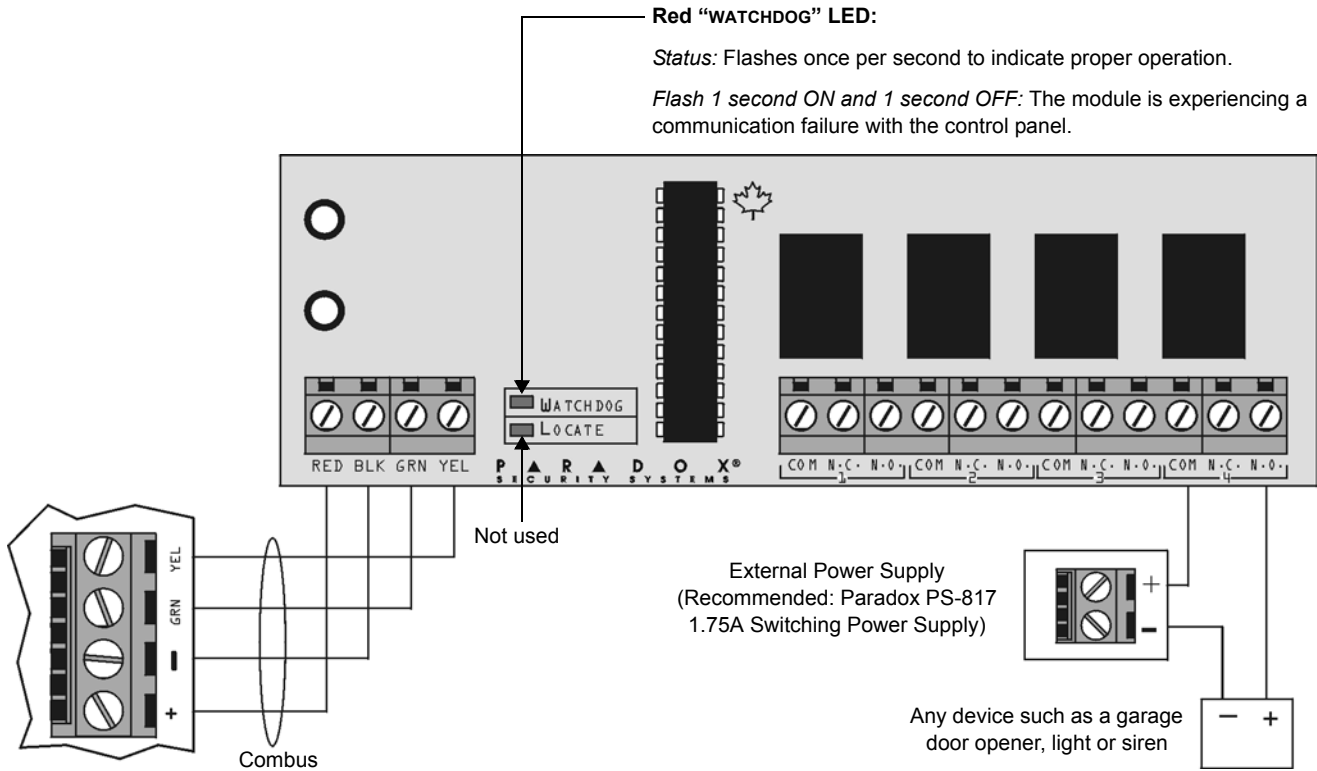
If the PGM Activation Event is programmed to follow a PGM Timer, the PGM Deactivation Event can be used as another PGM Activation Event.

For example, if section [501] (PGM1 Timer) is programmed with 030, section [506] (PGM 1 Deactivation Event) can be used as a PGM Activation Event.

The Programming Guide for an APR3-PGM4 installed on a Spectra system is included in a *Spectra System Programming Guide*.

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Figure 1: 4-PGM Expansion Module Connections



Remove AC and battery power from the control panel before adding the APR3-PGM3 to the system. Do not connect the APR3-PGM4 more than 76m (250ft) from the control panel. Only one APR3-PGM4 can be connected per Spectra control panel.

