



4-Output Bus Module V1.0 (PGM4)

with Auto-recognition



Reference & Installation Manual

SPECIFICATIONS

Power input:	9 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
Bus fault indication:	Green and red LEDs flash alternately
Humidity:	95% maximum
Operating Temp.:	0°C to 50°C (32°F to 122°F)
Compatibility:	Spectra control panel version 2.0 and higher

INSTALLATION

Connect the four terminals labeled red, black, green, and yellow of the module to the corresponding terminals on the control panel as shown in Figure 1 on the other side of this sheet.

AUTO-RECOGNITION

Due to the 4-Output Bus Module's Auto-recognition feature, it can be used with either the Spectra (V2.0 or higher) or Digiplex control panel. When connected to the bus, the 4-Output Bus Module automatically detects which control panel it is connected to and adjusts its internal communication parameters to function accordingly. When the module is installed on a Digiplex system, use the *Digiplex 4-Output Bus Module Instruction Manual*.

PGM TIME BASE SELECTION

Section **[500]** Option **[1]**, **[2]**, **[3]** and **[4]**

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

PGM TIMER

Section **[501]** to **[504]**

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. If 000 is programmed into sections **[501]** to **[504]**, the corresponding PGM will deactivate according to its PGM Deactivation Event. Refer to the PGM Time Base Selection to determine whether the value will be in seconds or minutes.

PGM ACTIVATION EVENT

Section **[505]**, **[507]**, **[509]** and **[511]**

A PGM Activation Event determines which event will activate a PGM output. The 4-Output Bus Module'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 (version 2.0 or higher) to program the 4-Output Bus Module's 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.

PGM DEACTIVATION EVENT

Section **[506]**, **[508]**, **[510]** and **[512]**

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 4-Output Bus Module'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 (version 2.0 or higher) to program the 4-Output Bus Module's 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 a 4-Output Bus Module installed on a Spectra system is included in a Spectra System Programming Guide (version 2.0 or higher).

Figure 1: 4-Output Bus Module connections

Red “Watchdog” LED:

Flashes once every second to indicate proper operation.

Slow flash (1 sec. on and 1 sec. off) to indicate trouble.

