



8-zone Expansion Modules
APR-ZX8
DRAFT

Introduction

The 8-zone Expansion Module (APR-ZX8) is an interface between the control panels and any hardwired detection devices. The APR-ZX8 connects to the control panel's combus to provide eight additional hardwired inputs and one 50mA on-board PGM output.

Technical Specifications

Input voltage: Typically 12 to 16 Vdc
 Current consumption: 28mA
 maximum 3 for MG/SP series and Spectra
 maximum 1 for Digiplex - Digiplex EVO
 Number of outputs: One 50mA PGM
 Number of inputs: 8 inputs
 Number of zones: 8 standard zones, 16 with ATZ
 Operating temperature: -20°C to 50°C (-4°F to 122°F)*
 Compatibility: Any Digiplex or Digiplex EVO series control panel
 Any Spectra SP Series control panel
 Any Spectra control panel (V2.0 or higher)
 MG5050
 WinLoad Software V2.03 or higher

* UL tested to 0°C to 49°C (32°F to 120°F).
 Specifications may change without prior notice.

Installation

Connect the module as shown in Figure 1 on the reverse side.

Options	Sections	APR-ZX8 JUMPERS†		
		Panel+1 Input 1 to 8	Panel+9 Input 1 to 8	Panel+17 Input 1 to 8
MG5000 (2 on-board zones)	—	No ATZ = zones 3 to 10 W/ ATZ = zones 5 to 12	No ATZ = zones 11 to 18 W/ ATZ = zones 19 to 26	No ATZ = zones 19 to 26 W/ ATZ = zones 23 to 30
MG5050 / SP5500 (5 On-board zones)	—	No ATZ = zones 6 to 13 W/ ATZ = zones 11 to 18	No ATZ = zones 14 to 21 W/ ATZ = zones 19 to 26	No ATZ = zones 22 to 29 W/ ATZ = zones 27 to 32
SP6000 (8 On-board zones)	—	No ATZ = zones 9 to 16 W/ ATZ = zones 17 to 24	No ATZ = zones 17 to 24 W/ ATZ = zones 25 to 32	No ATZ = zones 25 to 32 W/ ATZ = N/A
SP7000 (16 On-board zones)	—	No ATZ = zones 17 to 24 W/ ATZ = N/A	No ATZ = zones 25 to 32 W/ ATZ = N/A	N/A
PGM Recognition*	—	Recognizes PGM 6	Recognizes PGM 7	Recognizes PGM 8
Input Z1 Recognition*	[706]	Option [4] ON: Tamper Input OFF: A zone	Option [5] ON: Tamper Input OFF: A zone	Option [6] ON: Tamper Input OFF: A zone

†Press "Disable Locate" to change jumper settings. (See reverse)
 *MG5000/MG5050 and all SP Series Control Panels

Feature/Options	Sections	Spectra Programming	
Programming Method	—	To access the module's programming mode: 1. [ENTER] + [INSTALLER CODE] 2. Enter the 3-digit [SECTION] you want to program 3. Turn the desired option ON/OFF or enter the required data	
Tamper Recognition	[650]	[1] EOL Zones [2] Tamper Recognition [3] PGM Follows Spectra Global PGM	OFF = No EOL ON = With EOL OFF = Disabled ON = Enabled (Z1) OFF = Disabled ON = Enabled
Zone Assignment	[651]	Enable the zone input that are being used options [1] to [8] represent input Z1 to Z8.	
PGM Timer	[655]	_/_/_ 000 - 255 sec. 000 = Follow Deactivation Event.	
PGM Activation Event	[656]	_/_/_ Event Group _/_/_ Sub-Group _/_/_ Partition	[60] Tamper zone opened [61] Tamper zone closed [1] to [8] Zone input Z1 to Z8 Not Used: Enter [00]
PGM Deactivation Event	[657]	_/_/_ Event Group _/_/_ Sub-Group _/_/_ Partition	[60] Tamper zone opened [61] Tamper zone closed [1] to [8] Zone input Z1 to Z8 Not Used: Enter [00]

Feature/Options	Sections	Digiplex/EVO Programming
Programming Method		To access the module's programming mode: 1. Hold the [0] key+ [INSTALLER CODE] . 2. Enter section [953] (DGP-848) [4003] (EVO) 3. Enter the module's 8-digit [SERIAL NUMBER] 4. Enter the 3-digit [SECTION] you want to program 5. Turn the desired option ON/OFF or enter the required data
Options	[001]	[1] Tamper Recognition OFF † = Disabled ON = Enabled (Z8) [2] PGM Deactivation OFF † = Deactivation Event ON = PGM timer [3] PGM Normal State OFF † = N.O. ON = N.C. [4] PGM Base time OFF † = 1 second ON = 1 minute
Input Speed (Base Time Selection)	[002] - [016] Even Numbered	(Default = all inputs @ 600ms) Even numbered sections represent APR-ZX8 input terminals Z1 through Z8 respectfully. Using [▼] and [▲] keys, select a Base Time value from 000 to 002 (see below) and press [ENTER] . 000= Input Speed is multiplied by 15 milliseconds. 001= Input Speed is multiplied by 1 second. 002= Input Speed is multiplied by 1 minute.
Input Speed (Time Value)	[003] - [017] Odd Numbered	Odd numbered sections represent APR-ZX8 inputs Z1 through Z8 respectfully. Enter a 3-digit decimal time value (000 to 255) into the appropriate section, where this value is multiplied by the Input Speed.
PGM Timer	[018]	Enter a 3-digit decimal value (001-255) where this value is multiplied by the PGM Base Time Selection.
Activation Event*	[019] [020] [021] [022]	_/_/_ Event Group _/_/_ Feature Group _/_/_ Start# Set the range within the Feature Group. _/_/_ End# Set the range within the Feature Group.
Deactivation Event*	[023] [024] [025] [026]	_/_/_ Event Group _/_/_ Feature Group _/_/_ Start# Set the range within the Feature Group. _/_/_ End# Set the range within the Feature Group.
PGM Test Mode	[030]	Activate the PGM for 8 seconds to verify if the PGM is functioning properly.

*Only Event Groups 000 to 055 can be used. See PGM Table in the panel Programming Guide.
 † Default Setting

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Figure 1: Connecting the APR-ZX8

