

PRT3 Printer Module: ASCII Protocol Programming Instructions

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Technical Specifications

Parallel Port: Minimum 80 column printer

Serial Port: 1 start bit, 8 data bit, no parity and 1 stop bit (8N1)

Input Voltage: 9 -16 Vdc
Current Consumption: 60mA maximum

Serial Port Baud Rates: 2400, 9600, 19200 or 57600 bps

Event Buffer: 2048 events

Compatibility: Digiplex EVO48, EVO96, EVO192 control panels

DGP-848 control panel (V4.11 and up) DGP-NE96 control panel (V1.60 and up)

Panel Specifications

Feature	EVO48	EVO96	EVO192	DGP-848	DGP-NE96
Zones	48	96	192	48	96
Users	96	999	999	96	999
Areas	4	8	8	4	8

Introduction

The PRT3 Printer Module can be used as an interface between a home automation module and your Digiplex system. When in home automation mode, the Printer Module can receive and send commands to and from the home automation module and the Digiplex control panel, linking your home automation capabilities with your security system.

The Printer Module features 16 onboard virtual inputs. These inputs are not related to any physical input on the module, but operate in the same manner and are programmed in the same way as traditional zone inputs. A virtual input can be programmed to trigger a response from the Digiplex control panel based on an event that has occurred within the home automation module. For example, your home automation module may consist of a temperature sensor which you could associate with a virtual input. If the temperature fell to a certain level, the home automation module would send a command to open/close one of the Printer Module's virtual inputs and could trigger a Digiplex zone programmed with a 24-hr. freeze to generate an alarm. Using virtual inputs to trigger events within the Digiplex control panel involves associating the Printer Module's virtual input to a zone or a keyswitch on the control panel. See "Virtual Input Programming" on page 4.

The Printer Module also features 30 virtual PGMs for use with its home automation interface capabilities. These PGMs are not related to any physical output on the module, but operate in the same manner and are programmed in the same way as a traditional PGM. A virtual PGM can be used to trigger a response within the home automation module based on an event that has occurred within the Digiplex system. For example, when a user uses the Digiplex system to disarm an area, this event could activate a virtual PGM on the Printer Module and trigger a response within the home automation system, such as turning on a specific light on the premises. See "Virtual PGM Programming" on page 7.

In order for the home automation module and the Digiplex control panel to communicate through the Printer Module, the home automation module must be programmed to communicate using the ASCII Protocol. See "ASCII Protocol" on page 12.



For a complete list of the Printer Module's event reporting features, see the Printer Module V1.0 (PRT3) Instructions.

Installation

The Printer Module is connected to the control panel's combus. 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 2 on page 22. See the EVO or DGP-848 Reference & Installation Manual for the maximum allowable installation distance from the control panel.

The home automation module must be connected directly to the Printer Module's serial port (9-pin/ DB-9 connector). See Figure 2 on page 22 for an overview of the Printer Module's connections, LEDs and connectors.

Overview

The following provides of an overview of how the Printer Module communicates with the home automation system.

Virtual PGM events
 System events
 Communication with panel status

 Home Automation System

 Asculation System

Figure 1: Typical ASCII Application

Programming Sections

The following describes the programming sections which must be set when the Printer Module acts as an interface between a control panel and a home automation module using the ASCII Protocol.

To access the Printer Module's programming mode:

- STEP 1: Press and hold the [0] key.
- STEP 2: Enter the [INSTALLER CODE].
- STEP 3: Enter section [953] (DGP-848) / [4003] (EVO).
- STEP 4: Enter the Printer Module's 8-digit [SERIAL NUMBER].
- STEP 5: Enter the 3-digit [SECTION] you want to program.
- STEP 6: Enter the required data.

The Printer Module can also be programmed using the WinLoad Security Software (V2.62 or higher) or using the control panel's *Module Broadcast* feature. Refer to the *panel's Reference & Installation Manual* for more details. Please note that the serial number can be located on the Printer Module's PC board.

Serial Port Setup

The following list the serial port programming options which must be set in order for the Printer Module to communicate with the home automation module.

Section [016] - Option [1]
Enable Serial Port

When this option is ON (enabled), you can connect the home automation module directly to the Printer Module's 9-pin serial or USB port. Set option [4] to ON when using the Printer Module as an interface between a home automation module and the Digiplex system.

Section [016] - Options [2] & [3]
Baud Settings

This option allows you to set the Printer Module's serial port baud rate. Set the Printer Module's baud rate to match that of the home automation module. Refer to the home automation module's documentation to determine what baud rate to set the Printer Module to.

Baud Rate Settings
[2] [3]
OFF OFF −2400 Baud △
ON OFF −9600 Baud □
OFF ON −19200 Baud □
ON ON −57600 Baud □

 \triangle = default setting

Section [016] - Option [4]
Serial Port Usage

This option allows you to set the Printer Module's serial port usage to either Event Reporting or Home Automation. To set the Printer Module to Home Automation mode, set option [4] to ON.

Section [016] - Options [5] & [6] Home Automation Options

This option allows you to select the home automation protocol for the Printer Module. To select the ASCII Protocol, set options [5] and [6] to OFF.

Home Automation Settings

[5] [6]

OFF OFF — ASCII Protocol △
ON OFF — Clipsal C-Bus Protocol □
OFF ON — N/A
ON ON — N/A

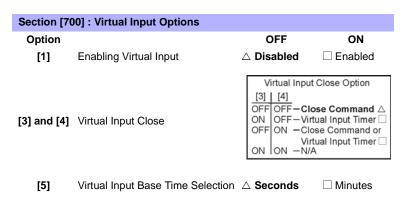
 \triangle = default setting



For more information on the Clipsal C-Bus Protocol, see the C-Bus Programming Instructions on our website at paradox.com.

Virtual Input Programming

The home automation module can be programmed to open/close the Printer Module's virtual inputs and generate activity within the Digiplex system. The tables below offer an example of the virtual input programming sections which must be set for Virtual Input 1.



Refer to the table below for a list of the programming sections for all virtual inputs.

Virtual Input	Section	Virtual Input	Section	Virtual Input	Section	Virtual Input	Section
1	[700] & [701]	5	[740] & [741]	9	[780] & [781]	13	[820] & [821]
2	[710] & [711]	6	[750] & [751]	10	[790] & [791]	14	[830] & [831]
3	[720] & [721]	7	[760] & [761]	11	[800] & [801]	15	[840] & [841]
4	[730] & [731]	8	[770] & [771]	12	[810] & [811]	16	[850] & [851]

The following describes the programming sections and options specific to the Printer Module's virtual inputs. Use the programming tables to document specific settings for all programmed virtual inputs.

	Section [700] - Option [1]
Enabling Virtual Input Option	

Each virtual input must be individually enabled. To enable the virtual input, set option [1] to ON.

 \triangle = default setting

Section	Virtual Input	[1] OFF	[1] ON	Section	Virtual Input	[1] OFF	[1] ON
[700]	1	△ disabled	☐ enabled	[780]	9	△ disabled	☐ enabled
[710]	2	△ disabled	☐ enabled	[790]	10	△ disabled	☐ enabled
[720]	3	△ disabled	☐ enabled	[800]	11	△ disabled	☐ enabled
[730]	4	△ disabled	☐ enabled	[810]	12	△ disabled	☐ enabled
[740]	5	△ disabled	☐ enabled	[820]	13	△ disabled	☐ enabled
[750]	6	△ disabled	☐ enabled	[830]	14	△ disabled	☐ enabled
[760]	7	△ disabled	☐ enabled	[840]	15	△ disabled	☐ enabled
[770]	8	△ disabled	☐ enabled	[850]	16	△ disabled	□ enabled

Section [700] - Options [3] and [4]

Virtual Input Close Option

The virtual input can be closed by receiving a virtual input close command and/or after a timer elapses. This option determines how the virtual input will close.

Virtual Input Close Option					
[4]					
OFF – Close Command OFF – Virtual Input Timer ON – Close Command or Virtual Input Timer					
OFF-Virtual Input Timer					
ON -Close Command or					
Virtual Input Timer					
ON -N/A					

 \triangle = default setting

Section	Virtual Input	[3] OFF / [4] OFF	[3] ON / [4] OFF	[3] OFF / [4] ON
[700]	1	\triangle close command	□ virtual input timer	☐ close command or virtual input timer
[710]	2	\triangle close command	□ virtual input timer	☐ close command or virtual input timer
[720]	3	△ close command	□ virtual input timer	☐ close command or virtual input timer
[730]	4	△ close command	☐ virtual input timer	☐ close command or virtual input timer
[740]	5	\triangle close command	□ virtual input timer	☐ close command or virtual input timer
[750]	6	△ close command	□ virtual input timer	close command or virtual input timer
[760]	7	△ close command	☐ virtual input timer	☐ close command or virtual input timer
[770]	8	△ close command	☐ virtual input timer	☐ close command or virtual input timer
[780]	9	△ close command	□ virtual input timer	close command or virtual input timer

[790]	10	△ close command	☐ virtual input timer	☐ close command or virtual input timer
[800]	11	△ close command	☐ virtual input timer	☐ close command or virtual input timer
[810]	12	△ close command	☐ virtual input timer	☐ close command or virtual input timer
[820]	13	△ close command	☐ virtual input timer	☐ close command or virtual input timer
[830]	14	△ close command	□ virtual input timer	☐ close command or virtual input timer
[840]	15	△ close command	☐ virtual input timer	☐ close command or virtual input timer
[850]	16	△ close command	☐ virtual input timer	☐ close command or virtual input timer

Section [701]

Virtual Input Timers

If the virtual input is set to follow its Virtual Input Timer, the entered value represents the amount of time that the virtual input will remain open. To program the Virtual Input Timer, enter a 3-digit value from **000** to **255**. Depending on the Virtual Input Base Time (see below), the Virtual Input Timer will either be in seconds or minutes.

Section	Virtual Input	Data	Section	Virtual Input	Data
[701]	1	//_ (000 to 255) x Base time	[781]	9	//_ (000 to 255) x Base time
[711]	2	//_ (000 to 255) x Base time	[791]	10	//_ (000 to 255) x Base time
[721]	3	//_ (000 to 255) x Base time	[801]	11	//_ (000 to 255) x Base time
[731]	4	//_ (000 to 255) x Base time	[811]	12	//_ (000 to 255) x Base time
[741]	5	//_ (000 to 255) x Base time	[821]	13	//_ (000 to 255) x Base time
[751]	6	//_ (000 to 255) x Base time	[831]	14	//_ (000 to 255) x Base time
[761]	7	//_ (000 to 255) x Base time	[841]	15	//_ (000 to 255) x Base time
[771]	8	// (000 to 255) x Base time	[851]	16	//_ (000 to 255) x Base time

Section [700] - Option [5]

Virtual Input Base Time Selection

If option [5] is OFF, the value programmed for the Virtual Input Timer will be in seconds. If option [5] is ON, the Virtual Input Timer will be in minutes. The following table lists the base time sections and their respective virtual inputs.

 \triangle = default setting

Section	Virtual Input	[5] OFF	[5] ON	Section	Virtual Input	[5] OFF	[5] ON
[700]	1	△ seconds	☐ minutes	[780]	9	△ seconds	☐ minutes
[710]	2	△ seconds	☐ minutes	[790]	10	△ seconds	☐ minutes
[720]	3	△ seconds	☐ minutes	[800]	11	△ seconds	☐ minutes
[730]	4	△ seconds	☐ minutes	[810]	12	△ seconds	☐ minutes
[740]	5	△ seconds	☐ minutes	[820]	13	△ seconds	☐ minutes
[750]	6	△ seconds	☐ minutes	[830]	14	△ seconds	☐ minutes
[760]	7	△ seconds	☐ minutes	[840]	15	△ seconds	☐ minutes
[770]	8	△ seconds	☐ minutes	[850]	16	△ seconds	☐ minutes

Virtual PGM Programming

The Printer Module supports up to 30 virtual PGMs which are not related to any physical output on the module, but operate in the same manner and are programmed in the same way as traditional PGMs. The tables below offer an example of the virtual PGM programming sections which must be set for virtual PGM 1.

Section [1	00] : Virtual PGM Options				
Option		OFF	ON		
[1] and [2] Virtual PGM Deactivation		Virtual PGM Deactivation Option [1] [2] OFF OFF — No deactivation □ ON OFF — Deactivation event △ OFF ON — Virtual PGM timer □ ON ON — Deactivation event or virtual PGM timer □			
[3]	Virtual PGM Base Time Selection	\triangle Seconds	☐ Minutes		
[4]	Virtual PGM Resend	△ Message not resent	☐ Message resent		
Section	Data	Description	Default		
[101]	//_ (000 to 255) x Base Time	Virtual PGM 1	Timer 005		

	Event Group		Feature Group		Start #		End #	
	Section	Section			Section		Section	
Virtual PGM Activation	[102]	_/_/_	[103]	_/_/_	[104]	_/_/_	[105]	_/_/_
Virtual PGM Deactivation	[106]	_/_/_	[107]	_/_/_	[108]	_/_/_	[109]	_/_/_

Refer to the table below for a list of the programming sections for all virtual PGMs.

Virtual PGM	Section								
1	[100] - [109]	7	[160] - [169]	13	[220] - [229]	19	[280] - [289]	25	[340] - [349]
2	[110] - [119]	8	[170] - [179]	14	[230] - [239]	20	[290] - [299]	26	[350] - [359]
3	[120] - [129]	9	[180] - [189]	15	[240] - [249]	21	[300] - [309]	27	[360] - [369]
4	[130] - [139]	10	[190] - [199]	16	[250] - [259]	22	[310] - [319]	28	[370] - [379]
5	[140] - [149]	11	[200] - [209]	17	[260] - [269]	23	[320] - [329]	29	[380] - [389]
6	[150] - [159]	12	[210] - [219]	18	[270] - [279]	24	[330] - [339]	30	[390] - [399]



For more information on PGM programming, see "Appendix 1: Programming PGMs" on page 23.

The following describes the programming sections and options specific to the Printer Module's virtual PGMs. Use the programming tables to document specific settings for all programmed virtual PGMs.

Section [100] - Options [1] and [2] Virtual PGM Deactivation Option

When the Virtual PGM Activation Event occurs, this option determines when the virtual PGM will return to its normal state (deactivate). Depending on the programmed value, the virtual PGM can stay activated indefinitely. It can also deactivate following a virtual deactivation event (see "Virtual PGM Deactivation Event" on page 11) and/or after the Virtual PGM Timer has elapsed (see "Virtual PGM Timers" on page 8).

Virtual PGM Deactivation Option

[1] [2]

OFF OFF — No deactivation

ON OFF Deactivation event

OFF ON — Virtual PGM timer

ON ON — Deactivation event or virtual PGM timer

Castian	Virtual	(4) 055 / (2) 055	[4] ON / [2] OFF	[4] OFF / [2] ON	[4] ON / [2] ON
Section	PGM	[1] OFF / [2] OFF	[1] ON / [2] OFF	[1] OFF / [2] ON	[1] ON / [2] ON
[100]	1	no deactivation	△ deactivation event	☐ virtual PGM timer	deactivation event or virtual PGM timer
[110]	2	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[120]	3	no deactivation	△ deactivation event	☐ virtual PGM timer	deactivation event or virtual PGM timer
[130]	4	no deactivation	△ deactivation event	☐ virtual PGM timer	deactivation event or virtual PGM timer
[140]	5	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[150]	6	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[160]	7	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[170]	8	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[180]	9	no deactivation	\triangle deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[190]	10	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[200]	11	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[210]	12	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[220]	13	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[230]	14	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[240]	15	no deactivation	\triangle deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[250]	16	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[260]	17	no deactivation	\triangle deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[270]	18	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[280]	19	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[290]	20	no deactivation	\triangle deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[300]	21	no deactivation	\triangle deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[310]	22	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[320]	23	no deactivation	\triangle deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[330]	24	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[340]	25	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[350]	26	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[360]	27	no deactivation	△ deactivation event	☐ virtual PGM timer	deactivation event or virtual PGM timer
[370]	28	no deactivation	△ deactivation event	☐ virtual PGM timer	☐ deactivation event or virtual PGM timer
[380]	29	no deactivation	△ deactivation event	☐ virtual PGM timer	deactivation event or virtual PGM timer
[390]	30	no deactivation	△ deactivation event	☐ virtual PGM timer	deactivation event or virtual PGM timer

Section [101]

Virtual PGM Timers

If the virtual PGM is set to follow its Virtual PGM Timer (see "Virtual PGM Deactivation Option" on page 7), the entered value represents the amount of time that the virtual PGM will remain activated. To program the Virtual PGM Timer, enter a 3-digit value from **000** to **255**. Depending on the Virtual PGM Base Time (see below), the Virtual PGM Timer will either be in seconds or minutes.

Section	Virtual PGM	Data	Section	Virtual PGM	Data
[101]	1	// (000 to 255) x Base time	[251]	16	//_ (000 to 255) x Base time
[111]	2	//_ (000 to 255) x Base time	[261]	17	//_ (000 to 255) x Base time
[121]	3	//_ (000 to 255) x Base time	[271]	18	//_ (000 to 255) x Base time
[131]	4	// (000 to 255) x Base time	[281]	19	//_ (000 to 255) x Base time
[141]	5	// (000 to 255) x Base time	[291]	20	//_ (000 to 255) x Base time
[151]	6	//_ (000 to 255) x Base time	[301]	21	//_ (000 to 255) x Base time
[161]	7	// (000 to 255) x Base time	[311]	22	//_ (000 to 255) x Base time
[171]	8	// (000 to 255) x Base time	[321]	23	//_ (000 to 255) x Base time
[181]	9	//_ (000 to 255) x Base time	[331]	24	//_ (000 to 255) x Base time
[191]	10	// (000 to 255) x Base time	[341]	25	//_ (000 to 255) x Base time

[201]	11	//_ (000 to 255) x Base time	[351]	26	//_ (000 to 255) x Base time
[211]	12	//_ (000 to 255) x Base time	[361]	27	//_ (000 to 255) x Base time
[221]	13	//_ (000 to 255) x Base time	[371]	28	//_ (000 to 255) x Base time
[231]	14	//_ (000 to 255) x Base time	[381]	29	//_ (000 to 255) x Base time
[241]	15	//_ (000 to 255) x Base time	[391]	30	//_ (000 to 255) x Base time

Section [100] - Option [3]

Virtual PGM Base Time Selection

If option [3] is OFF, the value programmed for the Virtual PGM Timer will be in seconds. If option [3] is ON, the Virtual PGM Timer will be in minutes. See the "Virtual PGM Deactivation Option" on page 7 table for relevant timer sections.

 \triangle = default setting

Section	Virtual PGM	[5] OFF	[5] ON	Section	Virtual PGM	[5] OFF	[5] ON
[100]	1	△ seconds	☐ minutes	[250]	16	△ seconds	☐ minutes
[110]	2	△ seconds	☐ minutes	[260]	17	△ seconds	☐ minutes
[120]	3	△ seconds	☐ minutes	[270]	18	△ seconds	☐ minutes
[130]	4	△ seconds	☐ minutes	[280]	19	△ seconds	☐ minutes
[140]	5	△ seconds	☐ minutes	[290]	20	△ seconds	☐ minutes
[150]	6	△ seconds	☐ minutes	[300]	21	△ seconds	☐ minutes
[160]	7	△ seconds	☐ minutes	[310]	22	△ seconds	☐ minutes
[170]	8	△ seconds	☐ minutes	[320]	23	△ seconds	☐ minutes
[180]	9	△ seconds	☐ minutes	[330]	24	△ seconds	☐ minutes
[190]	10	△ seconds	☐ minutes	[340]	25	△ seconds	☐ minutes
[200]	11	△ seconds	☐ minutes	[350]	26	△ seconds	☐ minutes
[210]	12	△ seconds	☐ minutes	[360]	27	△ seconds	☐ minutes
[220]	13	△ seconds	☐ minutes	[370]	28	△ seconds	☐ minutes
[230]	14	△ seconds	☐ minutes	[380]	29	△ seconds	☐ minutes
[240]	15	△ seconds	☐ minutes	[390]	30	△ seconds	☐ minutes

Section [100] - Option [4]

Virtual PGM Resend Option

If option [4] is ON and a virtual PGM's activation event reoccurs while the virtual PGM is ON, the associated message sent to the home automation system will be resent. If option [4] is ON and a Virtual PGM's deactivation event reoccurs while the virtual PGM is OFF, the associated message sent to the home automation system will be resent. See the "Virtual PGM Deactivation Option" on page 7 table for relevant sections.

 \triangle = default setting

Section	Virtual PGM	[4] OFF	[4] ON	Section	Virtual PGM	[4] OFF	[4] ON
[100]	1	△ message not resent	☐ message resent	[250]	16	△ message not resent	☐ message resent
[110]	2	△ message not resent	☐ message resent	[260]	17	△ message not resent	☐ message resent
[120]	3	△ message not resent	☐ message resent	[270]	18	△ message not resent	☐ message resent
[130]	4	△ message not resent	☐ message resent	[280]	19	△ message not resent	☐ message resent
[140]	5	△ message not resent	☐ message resent	[290]	20	△ message not resent	☐ message resent
[150]	6	\triangle message not resent	☐ message resent	[300]	21	△ message not resent	☐ message resent
[160]	7	△ message not resent	☐ message resent	[310]	22	△ message not resent	☐ message resent
[170]	8	△ message not resent	☐ message resent	[320]	23	△ message not resent	☐ message resent
[180]	9	\triangle message not resent	☐ message resent	[330]	24	△ message not resent	☐ message resent
[190]	10	\triangle message not resent	☐ message resent	[340]	25	△ message not resent	☐ message resent
[200]	11	\triangle message not resent	☐ message resent	[350]	26	△ message not resent	☐ message resent
[210]	12	\triangle message not resent	☐ message resent	[360]	27	△ message not resent	☐ message resent
[220]	13	△ message not resent	☐ message resent	[370]	28	△ message not resent	☐ message resent
[230]	14	△ message not resent	☐ message resent	[380]	29	△ message not resent	☐ message resent
[240]	15	△ message not resent	☐ message resent	[390]	30	△ message not resent	☐ message resent

Virtual PGM Activation Event

The Virtual PGM Activation Event determines which event will activate the Printer Module's virtual PGM output(s). The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # set the range within the Feature Group. Note that Event Groups [064] to [067] may be selected when programming virtual PGMs (see "Appendix 1: Programming PGMs" on page 23).

	Event	Group	Feature	Group	Sta	art #	Er	nd #
	Section		Section		Section		Section	
Virtual PGM1	[102]	_/_/_	[103]	//	[104]	//	[105]	//
Virtual PGM2	[112]	_/_/_	[113]	//	[114]	//	[115]	//
Virtual PGM3	[122]	_/_/_	[123]	//	[124]	//	[125]	//
Virtual PGM4	[132]	_/_/_	[133]	//	[134]	//	[135]	//
Virtual PGM5	[142]	_/_/_	[143]	//	[144]	//	[145]	//
Virtual PGM6	[152]	_/_/_	[153]	//	[154]	//	[155]	//
Virtual PGM7	[162]	_/_/_	[163]	//	[164]	//	[165]	//
Virtual PGM8	[172]	//	[173]	//	[174]	//	[175]	//
Virtual PGM9	[182]	_/_/_	[183]	_/_/_	[184]	_/_/_	[185]	//
Virtual PGM10	[192]	_/_/_	[193]	//	[194]	//	[195]	//
Virtual PGM11	[202]	_/_/_	[203]	_/_/_	[204]	_/_/_	[205]	//
Virtual PGM12	[212]	_/_/_	[213]	//	[214]	//	[215]	//
Virtual PGM13	[222]	_/_/_	[223]	//	[224]	//	[225]	//
Virtual PGM14	[232]	_/_/_	[233]	//	[234]	//	[235]	//
Virtual PGM15	[242]	_/_/_	[243]	//	[244]	//	[245]	//
Virtual PGM16	[252]	_/_/_	[253]	//	[254]	//	[255]	//
Virtual PGM17	[262]	_/_/_	[263]	//	[264]	//	[265]	//
Virtual PGM18	[272]	_/_/_	[273]	//	[274]	//	[275]	//
Virtual PGM19	[282]	_/_/_	[283]	//	[284]	//	[285]	//
Virtual PGM20	[292]	_/_/_	[293]	//	[294]	//	[295]	//
Virtual PGM21	[302]	_/_/_	[303]	//	[304]	//	[305]	//
Virtual PGM22	[312]	_/_/_	[313]	//	[314]	//	[315]	//
Virtual PGM23	[322]	_/_/_	[323]	//	[324]	//	[325]	//
Virtual PGM24	[332]	_/_/_	[333]	//	[334]	//	[335]	//
Virtual PGM25	[342]	_/_/_	[343]	_/_/_	[344]	//	[345]	//
Virtual PGM26	[352]	//	[353]	//	[354]	//	[355]	//
Virtual PGM27	[362]	_/_/_	[363]	_/_/_	[364]	_/_/_	[365]	//
Virtual PGM28	[372]	_/_/_	[373]	_/_/_	[374]	_/_/_	[375]	//
Virtual PGM29	[382]	//	[383]	//	[384]	//	[385]	//
Virtual PGM30	[392]	_/_/_	[393]	_/_/_	[394]	_/_/_	[395]	//

Virtual PGM Deactivation Event

If the Virtual PGM Deactivation Option is set to follow the Virtual PGM Deactivation Event (see "Virtual PGM Deactivation Option" on page 7), the virtual PGM will return to its normal state when the event programmed occurs (see table below). The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # set the range within the Feature Group.

Enter the sections that correspond to the Event Group, Feature Group, Start # and End # of the PGM.

	Event	Group	Feature	e Group	Sta	art #	Er	nd #
	Section		Section		Section		Section	
Virtual PGM1	[106]	_/_/_	[107]	//	[108]	//	[109]	//
Virtual PGM2	[116]	_/_/_	[117]	//	[118]	//	[119]	//
Virtual PGM3	[126]	_/_/_	[127]	//	[128]	//	[129]	//
Virtual PGM4	[136]	_/_/_	[137]	//	[138]	//	[139]	//
Virtual PGM5	[146]	_/_/_	[147]	//	[148]	//	[149]	//
Virtual PGM6	[156]	//	[157]	//	[158]	//	[159]	//
Virtual PGM7	[166]	//	[167]	//	[168]	//	[169]	//
Virtual PGM8	[176]	//	[177]	//	[178]	//	[179]	//
Virtual PGM9	[186]	_/_/_	[187]	_/_/_	[188]	//	[189]	//
Virtual PGM10	[196]	//	[197]	//	[198]	//	[199]	//
Virtual PGM11	[206]	_/_/_	[207]	_/_/_	[208]	//	[209]	//
Virtual PGM12	[216]	_/_/_	[217]	//	[218]	//	[219]	//
Virtual PGM13	[226]	_/_/_	[227]	_/_/_	[228]	//	[229]	//
Virtual PGM14	[236]	_/_/_	[237]	_/_/_	[238]	//	[239]	//
Virtual PGM15	[246]	_/_/_	[247]	//	[248]	//	[249]	//
Virtual PGM16	[256]	_/_/_	[257]	//	[258]	_/_/_	[259]	//
Virtual PGM17	[266]	_/_/_	[267]	_/_/_	[268]	_/_/_	[269]	//
Virtual PGM18	[276]	_/_/_	[277]	//	[278]	//	[279]	//
Virtual PGM19	[286]	_/_/_	[287]	//	[288]	_/_/_	[289]	//
Virtual PGM20	[296]	_/_/_	[297]	_/_/_	[298]	_/_/_	[299]	//
Virtual PGM21	[306]	_/_/_	[307]	//	[308]	//	[309]	//
Virtual PGM22	[316]	_/_/_	[317]	_/_/_	[318]	_/_/_	[319]	//
Virtual PGM23	[326]	_/_/_	[327]	_/_/_	[328]	//	[329]	//
Virtual PGM24	[336]	_/_/_	[337]	//	[338]	//	[339]	//
Virtual PGM25	[346]	_/_/_	[347]	_/_/_	[348]	//	[349]	//
Virtual PGM26	[356]	_/_/_	[357]	_/_/_	[358]	//	[359]	//
Virtual PGM27	[366]	_/_/_	[367]	_/_/_	[368]	_/_/_	[369]	//
Virtual PGM28	[376]	_/_/_	[377]	_/_/_	[378]	_/_/_	[379]	//
Virtual PGM29	[386]	_/_/_	[387]	_/_/_	[388]	_/_/_	[389]	//
Virtual PGM30	[396]	_/_/_	[397]	/_/	[398]	_/_/_	[399]	//

ASCII Protocol

The ASCII Protocol is a serial communication protocol which allows your home automation module to communicate with the Digiplex control panel through the PRT3 Printer Module. The home automation module must be programmed with the ASCII Protocol in order for successful communication to occur.

The ASCII Protocol is a means of communication involving the use of uppercase ASCII characters. All communications between the Printer Module and the home automation module must end with a carriage return (ASCII #13).

When a command is sent from the home automation module to the Printer Module, it is acknowledged with a feedback echo. The Printer Module will send the first five characters of the command back to the home automation module followed by "&OK" for valid commands, "&fail" for invalid commands or with requested information when a valid command involves an information request. If the feedback consists of an exclamation point ("!") followed by a carriage return, this signifies that the command could not be accepted due to the fact that the Printer Module's reception buffer is full.

Printer Module to Digiplex Panel Communication Status

If the Printer Module fails to communicate with the Digiplex panel, the following command is used.

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8	Byte 9	Byte 10
С	0	М	M	&	f	а	i	I	<cr></cr>

The following command is used to signify communication has been restored. This command is also used upon startup to indicate that the Printer Module is successfully communicating with the Digiplex control panel.

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8
С	0	M	M	&	0	k	<cr></cr>

Commands sent to the Printer Module from the Home Automation Module

The following lists the ASCII Protocol string codes and their respective commands from the home automation module to the Printer Module.

Virtual Input Open

The following commands set the virtual inputs' status to "open".

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6
Virtual Input Open 01	V	0	0	0	1	<cr></cr>
Virtual Input Open 02	V	0	0	0	2	<cr></cr>
			11			
Virtual Input Open 16	V	0	0	1	6	<cr></cr>

Virtual Input Closed

The following commands set the virtual inputs' status to "closed".

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6
Virtual Input Closed 01	V	С	0	0	1	<cr></cr>
Virtual Input Closed 02	V	С	0	0	2	<cr></cr>
			11			
Virtual Input Closed 16	V	С	0	1	6	<cr></cr>

Request Area Status

The following commands request the area status. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	
Request Area Status 01	R	Α	0	0	1	<cr></cr>	
Request Area Status 02	R	Α	0	0	2	<cr></cr>	
↓↓							
Request Area Status 08	R	Α	0	0	8	<cr></cr>	

The Request Area Status command involves an information request. When the command is valid, the first five characters of the command are returned followed by the requested information. The following provides an example of the information sent by the Printer Module to the home automation module after having received a Request Area Status 01 command:

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
R	А	0	0	1	D (Disarmed) A (Armed) F (Force armed) S (Stay armed) I (Instant armed)	M (Zone in memory) O (Ok)

Byte 8	Byte 9	Byte 10	Byte 11	Byte 12	Byte 13
T (Trouble) O (Ok)	N (Not ready) O (Ok)	P (In programming) O (Ok)	A (In alarm) O (Ok)	S (Strobe) O (Ok)	<cr></cr>

Request Zone Status

The following commands request the zone status. For the panel's maximum number of zones, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6		
Request Zone Status 01	R	Z	0	0	1	<cr></cr>		
Request Zone Status 02	R	Z	0	0	2	<cr></cr>		
↓ ↓								
Request Zone Status 192	R	Z	1	9	2	<cr></cr>		

The Request Zone Status command also involves an information request. When the command is valid, the first five characters of the command are returned followed by the requested information. The following provides an example of the information sent by the Printer Module to the home automation module after having received a Request Zone Status 01 command.

Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6
R	Z	0	0	1	C (Closed) O (Open) T (Tampered) F (Fire loop trouble)

Byte 7	Byte 8	Byte 9	Byte 10	Byte 11
A (In alarm) O (Ok)	F (Fire alarm) O (Ok)	S (Supervision lost) O (Ok)	L (Low battery) O (Ok)	<cr></cr>

Request Zone Label

The following commands request the zone label. For the panel's maximum number of zones, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6		
Request Zone Label 01	Z	L	0	0	1	<cr></cr>		
Request Zone Label 02	Z	L	0	0	2	<cr></cr>		
↓↓								
Request Zone Label 192	Z	L	1	9	2	<cr></cr>		

The Request Zone Label command also involves an information request. When the command is valid, the first five characters of the command are returned followed by the requested zone label. All zone labels are 16 characters in length.

Request Area Label

The following commands request the area label. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	
Request Area Label 01	А	L	0	0	1	<cr></cr>	
Request Area Label 02	А	L	0	0	2	<cr></cr>	
↓↓							
Request Area Label 08	Α	L	0	0	8	<cr></cr>	

The Request Area Label command also involves an information request. When the command is valid, the first five characters of the command are returned followed by the requested area label. All area labels are 16 characters in length.

Request User Label

The following commands request the user label. For the panel's maximum number of users, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	
Request User Label 01	U	L	0	0	1	<cr></cr>	
Request User Label 02	U	L	0	0	2	<cr></cr>	
↓↓							
Request User Label 999	U	L	9	9	9	<cr></cr>	

The Request User Label command also involves an information request. When the command is valid, the first five characters of the command are returned followed by the requested user label. All user labels are 16 characters in length.

Area Arm

The following commands arm areas. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Bytes 7-12	Byte 13	
Arm Area 01	А	А	0	0	1	A (Regular arm) F (Force arm) S (stay arm) I (Instant arm)	xxxxxx*	<cr></cr>	
Arm Area 02	Α	Α	0	0	2	"	66	<cr></cr>	
↓ ↓									
Arm Area 08	А	Α	0	0	8	"	"	<cr></cr>	

^{*} xxxxxx represents the code used to arm the system. If the code is shorter than six digits, enter only the appropriate amount of digits.



If an invalid user code is entered, the command will be returned followed by "&fail".

Area Quick Arm

The following commands quick arm areas. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7
Quick Arm Area 01	А	Q	0	0	1	A (Regular arm) F (Force arm) S (stay arm) I (Instant arm)	<ci></ci>

Quick Arm Area 02	А	Q	0	0	2	A (Regular arm) F (Force arm) S (stay arm) I (Instant arm	<cr></cr>
↓ ↓							
Quick Arm Area 08	А	Q	0	0	8	A (Regular arm) F (Force arm) S (stay arm) I (Instant arm	<cr></cr>



The One-Touch feature must be enabled in the Digiplex control panel to use this feature. See the appropriate Digiplex control panel's Reference and Installation Manual for more information.

Area Disarm

The following commands disarm areas. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Bytes 6-11	Byte 12		
Disarm Area 01	Α	D	0	0	1	xxxxxx*	<cr></cr>		
Disarm Area 02	Α	D	0	0	2	66	<cr></cr>		
	↓↓								
Disarm Area 08	Α	D	0	0	8	66	<cr></cr>		

^{*} xxxxxx represents the code used to arm the system. If the code is shorter than six digits, enter only the appropriate amount of digits.



If an invalid user code is entered, the command will be returned followed by "&fail".

Emergency Panic

The following commands are used for emergency panic alarms in up to eight areas. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6		
Panic 1 - Emergency Area 01	Р	E	0	0	1	<cr></cr>		
Panic 1 - Emergency Area 02	Р	E	0	0	2	<cr></cr>		
↓ ↓								
Panic 1 - Emergency Area 08	Р	Е	0	0	8	<cr></cr>		



Panic alarms must be individually enabled. See the appropriate Digiplex control panel's Reference and Installation Manual for more information.

Medical Panic

The following commands are used for medical panic alarms in up to eight areas. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	
Panic 2 - Medical Area 01	Р	M	0	0	1	<cr></cr>	
Panic 2 - Medical Area 02	Р	M	0	0	2	<cr></cr>	
↓ ↓							
Panic 2 - Medical Area 08	Р	M	0	0	8	<cr></cr>	



Panic alarms must be individually enabled. See the appropriate Digiplex control panel's Reference and Installation Manual for more information.

Fire Panic

The following commands are used for fire panic alarms in up to eight areas. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6		
Panic 3 - Fire Area 01	Р	F	0	0	1	<cr></cr>		
Panic 3 - Fire Area 02	Р	F	0	0	2	<cr></cr>		
↓↓								
Panic 3 - Fire Area 08	Р	F	0	0	8	<cr></cr>		



Panic alarms must be individually enabled. See the appropriate Digiplex Control Panel Reference and Installation Manual for more information.

Smoke Reset

The following commands are used for smoke detector resets in up to eight areas. For the panel's maximum number of areas, refer to "Panel Specifications" on page 1.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	
Smoke reset - Area 01	S	R	0	0	1	<cr></cr>	
Smoke reset - Area 02	S	R	0	0	2	<cr></cr>	
↓ ↓							
Smoke reset - Area 08	S	R	0	0	8	<cr></cr>	

Utility Key

The following commands are used for the utility keys (up to 251).

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6		
Utility key 01	U	K	0	0	1	<cr></cr>		
Utility key 02	U	K	0	0	2	<cr></cr>		
↓↓								
Utility key 251	U	K	2	5	1	<cr></cr>		

Commands sent from the Printer Module to the Home Automation Module

The following lists the ASCII Protocol string codes and their respective commands from the Printer Module to the home automation module.

Virtual PGM Events

When a virtual PGM is activated within the Printer Module, the following commands are sent to the home automation module.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	
Virtual PGM 01 ON	Р	G	M	0	1	0	N	
Virtual PGM 02 ON	Р	G	M	0	2	0	N	
+ +								
Virtual PGM 30 ON	Р	G	M	3	0	0	N	

When a virtual PGM is deactivated within the Printer Module, the following commands are sent to the home automation module.

	Byte 1	Byte 2	Byte 3	Byte 4	Byte 5	Byte 6	Byte 7	Byte 8	Byte 9
Virtual PGM 01 OFF	Р	G	М	0	1	0	F	F	<cr></cr>
Virtual PGM 02 OFF	Р	G	М	0	2	0	F	F	<cr></cr>
++									
Virtual PGM 30 OFF	Р	G	М	3	0	0	F	F	<cr></cr>

System Events

All Digiplex system events are sent through the Printer Module to the home automation module using the following format.

	Byte 1	Bytes 2-4	Byte 5	Bytes 6-8	Byte 9	Bytes 10-12
System Event	G	xxx*	N	ууу**	А	ZZZ***

^{*} xxx represents the 3-digit event group (G).

As shown above, system events involve a 3-digit event group (Gxxx), a 3-digit event number (Nyyy) and a 3-digit area number (Azzz). The following table lists the event group and event number descriptors that can be used to read the system event format. For example, G001N005A006 means zone 5 in area 6 has been opened. (Event group 001= Zone open, Event number 005= zone 5, Area 006= area 6).

Event Group (G)	Event Group Description	Event Number (N)	Event Number Description	Area Number (A)
000	Zone is OK			
001	Zone is Open	001-192	Zone Numbers	001-008
002	Zone is Tampered	001-132	Zone Numbers	001-000
003	Zone is in Fire Loop Trouble			
		000	TLM Trouble	
		001	Smoke detector reset	
		002	Arm with no entry delay	
		003	Arm in Stay mode	
004	Non-reportable Event	004	Arm in Away mode	800-000
		005	Full arm when in Stay mode	
		006	Voice module access	
		007	Remote control access	
		800	PC Fail to communicate	
		009	Midnight	
		010	NEware User Login	
		011	NEware User Logout	
		012	User Initiated Callup	
		013	Force Answer	
		014	Force Hangup	
005	User Code entered on Keypad	000-999	User Codes	000-008
006	User/Card Access on door	001-032	Door Numbers	800-000
007	Bypass Programming	000	One-touch Bypass Programming	001-008
001	Access	001-999	User Code	001-000
800	TX Delay Zone Alarm	001-192	Zone Numbers	001-008
009	Arming with Master	001-999	User Codes	001-008
010	Arming with User Code	001-999	User Codes	001-008
011	Arming with Keyswitch	001-032	Keyswitch numbers	001-008

^{**} yyy represents the 3-digit event number (N).
*** zzz represents the 3-digit area number (A). Area number 000 signifies that the event has occurred in all enabled areas or is a global event independent of area assignment.

Event Group (G)	Event Group Description	Event Number (N)	Event Number Description	Area Number (A)		
		000	Auto Arming			
		001	Arming by WinLoad			
		002	Late to Close			
		003	No Movement Arming			
012	Special Arming	004	Partial Arming	001-008		
		005	One-touch Arming			
		006	Future Use			
		007	Future Use			
		008	(InTouch) Voice Module Arming			
013	Disarm with Master	001-999	User Codes	001-008		
014	Disarm with User Code	001-999	User Codes	001-008		
015	Disarm with Keyswitch	001-032	Keyswitch numbers	001-008		
016	Disarm after alarm with Master	001-999	User Codes	001-008		
017	Disarm after alarm with User Code	001-999	User Codes	001-008		
018	Disarm after alarm with Keyswitch	001-032	Keyswitch numbers	001-008		
019	Alarm Cancelled with Master	001-999	User Codes	001-008		
020	Alarm Cancelled with User Code	001-999	User Codes	001-008		
021	Alarm Cancelled with Keyswitch	001-032	Keyswitch numbers	001-008		
		000	Auto Arm Cancelled			
		001	One-touch Stay/Instant Disarm			
		002	Disarming with WinLoad			
		003	Disarming with WinLoad after alarm			
022	Special Disarm Events	004	WinLoad cancelled alarm	001-008		
		005	Future Use			
		006	Future Use			
		007	Future Use			
		800	(InTouch) Voice Module Disarming			
023	Zone Bypassed	001-192	Zone Numbers	001-008		
024	Zone in Alarm	001-192	Zone Numbers	001-008		
025	Fire Alarm	001-192	Zone Numbers	001-008		
026	Zone Alarm Restore	001-192	Zone Numbers	001-008		
027	Fire Alarm Restore	001-192	Zone Numbers	001-008		
028	Early to Disarm by User	001-999	User Codes	001-008		
029	Late to Disarm by User	001-999	User Codes	001-008		
		000	Emergency Panic (Keys 1 & 3)			
		001	Medical Panic (Keys 4 & 6)			
030	Special Alarm	002	Fire Panic (Keys 7 & 9)	001-008		
	003		Recent Closing	001-008		
			004	Police Code		
		005	Global Shutdown			
031	Duress Alarm by User	0-999	User Codes	001-008		
032	Zone Shutdown	0-192	Zone Numbers	001-008		
033	Zone Tamper	0-192	Zone Numbers	001-008		

Event Group (G)	Event Group Description	Event Number (N)	Event Number Description	Area Number (A)
034	Zone Tamper Restore	001-192	Zone Numbers	001-008
035	Special Tamper	000	Keypad Lockout	001-008
		000	TLM Trouble	
		001	AC Failure	
		002	Battery Failure	
036	Trouble Event	003	Auxiliary Current Limit	000-008
030	Trouble Event	004	Bell Current Limit	000-000
		005	Bell Absent	
		006	Clock Trouble	
		007	Global Fire Loop	
		000	TLM Trouble	
		001	AC Failure	
		002	Battery Failure	
037	Trouble Restore	003	Auxiliary Current Limit	000-008
037	Trouble Restore	004	Bell Current Limit	000-000
		005	Bell Absent	
		006	Clock Trouble	
		007	Global Fire Loop	
		000	Combus Fault	
		001	Module Tamper	
		002	ROM/RAM error	
		003	TLM Trouble	
038	Module Trouble	004	Fail to Communicate	000-008
		005	Printer Fault	
		006	AC Failure	
		007	Battery Failure	
		008	Auxiliary Failure	
		000	Combus Fault	
		001	Module Tamper	
		002	ROM/RAM error	
		003	TLM Trouble	
039	Module Trouble Restore	004	Fail to Communicate	000-008
		005	Printer Fault	
		006	AC Failure	
		007	Battery Failure	
		008	Auxiliary Failure	
040	Fail to Communicate on telephone Number	001-004	Telephone Number	000-008
041	Low Battery on Zone	001-192	Zone Numbers	001-008
042	Zone Supervision Trouble	001-192	Zone Numbers	001-008
043	Low Battery on Zone Restored	001-192	Zone Numbers	001-008
044	Zone Supervision Trouble Restored	001-192	Zone Numbers	001-008

Event Group (G)	Event Group Description	Event Number (N)	Event Number Description	Area Number (A)	
		000	Power up after total power down		
		001	Software reset (Watchdog)		
		002	Test Report		
045	Special Events	003	Future Use	800-000	
040	opoolar Evollio	004	WinLoad In (connected)	000 000	
		005	WinLoad Out (disconnected)		
		006	Installer in programming		
		007	Installer out of programming		
046	Early to Arm by User	001-999	User Codes	001-008	
047	Late to Arm by User	001-999	User Codes	001-008	
048	Utility Key	001-251	Utility Key	000-008	
049	Request for Exit	001-032	Door Numbers	800-000	
050	Access Denied	001-032	Door Numbers	000-008	
051	Door Left Open Alarm	001-032	Door Numbers	800-000	
052	Door Forced Alarm	001-032	Door Numbers	800-000	
053	Door Left Open Restore	001-032	Door Numbers	000-008	
054	Door Forced Open Restore	001-032	Door Numbers	000-008	
055	Intellizone Triggered	001-192	Zone Numbers	800-000	
058	New Module Assigned on	000	Module Address	001 to 254 Not Used	
333	Combus	255	Any Module		
059	Module Manually Removed	000	Module Address	001 to 254	
	From Combus	255	Any Module	Not Used	
060 - 061	Future Use	Future Use	Future Use	Future Use	
062	Access Granted to User	000-999	User Codes	000-008	
063	Access Denied to User	000-999	User Codes	800-000	
			Armed	000	
			Force Armed	001	
			Stay Armed	002	
064	Status 1	See Note 1	Instant Armed	003	
		on page 21	Strobe Alarm	004	
			Silent Alarm	005	
			Audible Alarm	006	
			Fire Alarm	007	
			Ready	000	
			Exit Delay	001	
			Entry Delay	002	
		See Note 1	System in Trouble	003	
065	Status 2	on page 21	Alarm in Memory	004	
		- -	Zones Bypassed	005	
			Bypass, Master, Installer Programming	006	
			Keypad Lockout	007	

Event Group (G)	Event Group Description	Event Number (N)	Event Number Description	Area Number (A)
			Intellizone Delay Engaged**	000
			Fire Delay Engaged	001
		See Note 1 on page 21	Auto Arm	002
066	Status 3		Arming with Voice Module (set until Exit Delay finishes)	003
			Tamper	004
			Zone Low Battery	005
			Fire Loop Trouble	006
			Zone Supervision Trouble	007

NOTE 1: 000 = Occurs in all areas enabled in the system (see section [3031]).

001 = Area 1 003 = Areaarea 3 005 = Area 5 007 = Area 7 255 = Occurs in at least one area enabled in the system.

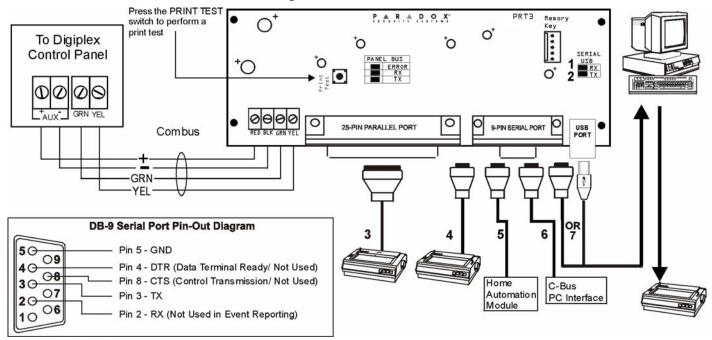
002 = Area 2 **004** = Area 4 **006** = Area 6 **008** = Area 8

*: If a Keyswitch Input is used, the input must be defined as "Generates a Utility Key Event on Open" or "Generates a Utility Key Event on Open and Close". If a remote control is used, the remote control button must be defined as a Utility Key button.

** This event cannot be used for a module's PGM programming.

†: Actions that Activate a Utility Key Event

Figure 2: .PRT3 Connection



- 1) Green "RX" LED: Flashes when the Printer Module is receiving data through the serial port only.
- 2) Red "TX" LED: Flashes when the Printer Module is transmitting data through the serial port only.
- 3) 25-Pin Parallel Port: Connect the Printer Module's 25-pin parallel port to any dot matrix printer. Note: The dot matrix printer must support a minimum of 80 columns.
- 4) 9-Pin Serial Port: Connect the Printer Module's 9-Pin serial port to a dot matrix printer. Note: The dot matrix printer must support a minimum of 80 columns.
- 5) 9-pin Serial Port: Connect the Printer Module's 9-pin serial port to a home automation module.
- 6) 9-pin Serial Port: Connect C-Bus to the Printer Module using a *null modem cable*.
- 7) 9-pin Serial Port: Connect either the Printer Module's USB or 9-pin serial port to a computer's COM port to view the control panel's events on the computer's monitor. The events display on the monitor can then be printed through the printer connected to the computer.



Remove AC power and battery before adding a module to the system. Refer to the Digplex EVO or DGP-848 Reference & Installation Manual for the maximum allowable installation distance from the control panel.



Printer cable length must not exceed 25ft.



For information on using the Printer Module as an interface with home automation modules, see the ASCII Protocol Programming Instructions or C-Bus Programming Instructions.

Appendix 1: Programming PGMs

A PGM is a programmable output that toggles to its opposite state (i.e. a normally open PGM will close) when a specific event occurs in the system. For example, a PGM can be used to reset smoke detectors, activate strobe lights, open/close garage doors and much more.

PGM Activation Event

The PGM Activation Event determines which event from which source will activate the PGM. The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # sets the range within the Feature Group (see PGM Programming Table below).

For example, the PRT3 can activate Virtual PGM1 when the area is armed by User Access Codes 256 to 260. Therefore:

Event Group section [102] = 010 "Arming with User Code"

Feature Group section [103] = 001 "User Codes 256 to 511"

Start # section [104] = 000 (representing user code 256)

End # section [105] = 004 (representing user code 260)

Enter the sections that correspond to the Event Group, Feature Group, Start # and End # of the desired PGM and enter the data as required.

PGM Deactivation Option

Once the PGMs are activated, they can deactivate when another event occurs or after a period of time. The PGM Deactivation Option determines which method is used, the PGM Deactivation Event or the PGM Timer. Enter the section that corresponds to the desired PGM and enable or disable the option.

PGM Deactivation Event

When the PGM Deactivation Option (see above) is disabled, the PGM Deactivation Event determines which event from which source will return the PGM to its original state. The Event Group specifies the event, the Feature Group identifies the source, and the Start # and End # determine the range within the Feature Group. The complete PGM Programming Table appears below.

For example, the PRT3 can deactivate Virtual PGM1 when zone 3 opens. Therefore:

Event Group section [106] = 001 "Zone is Open"

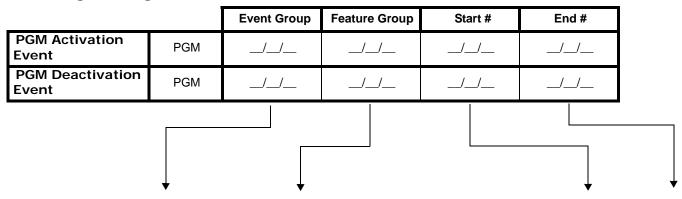
Feature Group section [107] = 000 "Zone Numbers"

Start # section [108] = 003

End # section [109] = 003

Enter the sections that correspond to the Event Group, Feature Group, Start # and End # of the desired PGM and enter the data as required.

PGM Programming Table



Event Group	Event	Feature Group Feature		Start #	End#
000	Zone is OK	000	Zone Numbers	001 to 192	001 to 192
000	Zone is Or	255	Any zone number	Not Used	Not Used
001	7 and in Ones	000	Zone Numbers	001 to 192	001 to 192
001	Zone is Open	255	Any zone number	Not Used	Not Used
002 Zone is T	Zone is Tampered	000	Zone Numbers	001 to 192	001 to 192
002	Zone is rampered	255	Any zone number	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End#
003	Zone is in Fire Loop Trouble	000	Zone Numbers	001 to 192	001 to 192
003	Zone is in Fire Loop Trouble	255	Any zone number	Not Used	Not Used
			TLM Trouble (see NOTE 3 on page 29)	000	000
			Smoke detector reset	001	001
			Arm with no entry delay	002	002
			Arm in Stay mode	003	003
			Arm in Away mode	004	004
			Full arm when in Stay mode	005	005
		000	Voice module access	006	006
004	Non-reportable Event	000	Remote control access	007	007
	·		PC Fail to communicate	800	008
			Midnight	009	009
			NEware User Login	010	010
			NEware User Logout	011	011
			User Initiated Callup	012	012
			Force Answer	013	013
			Force Hangup	014	014
		255	Any non-reportable event	Not Used	Not Used
		000	User Codes 000 to 255	000 to 255	000 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
005	User Code entered on Keypad	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
006	User/Card Access on door	000	Door Numbers	001 to 032	001 to 032
000	Osei/Card Access on door	255	Any door number	Not Used	Not Used
		000	One-touch Bypass Programming	000	000
		000	User Codes 001 to 255	001 to 255	001 to 255
007	Bypass Programming Access	001	User Codes 256 to 511	000 to 255	000 to 255
007		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
008	TX Delay Zone Alarm	000	Zone Numbers	001 to 192	001 to 192
000	17. Dolay Zone Alaim	255	Any zone number	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
009	Arming with Master	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
010	Arming with User Code	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
011	Arming with Keyswitch	000	Keyswitch numbers	001 to 032	001 to 032
	7 tilling with Neyswitch	255	Any keyswitch number	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End#
			Auto Arming	000	000
			Arming by WinLoad	001	001
			Late to Close	002	002
		000	No Movement Arming	003	003
012	Special Arming	000	Partial Arming	004	004
012	Special Airning		One-touch Arming	005	005
			Future Use	006	006
			Future Use	007	007
			(InTouch) Voice Module Arming	800	800
		255	Any special arming event	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
013	Disarm with Master	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
014	Disarm with User Code	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
015	Disarm with Keyswitch	000	Keyswitch numbers	001 to 032	001 to 032
013	Disami with Reyswitch	255	Any keyswitch	Not Used	Not Used
	Disarm after alarm with Master	000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
016		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
	Disarm after alarm with User Code	001	User Codes 256 to 511	000 to 255	000 to 255
017		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
018	Disarm after alarm with	000	Keyswitch numbers	001 to 032	001 to 032
	Keyswitch	255	Any keyswitch	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
019	Alarm Cancelled with Master	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
	Alarm Cancelled with User	001	User Codes 256 to 511	000 to 255	000 to 255
020	Code	002	User Codes 512 to 767	000 to 255	000 to 255
	Jour	003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
021	Alarm Cancelled with	000	Keyswitch numbers	001 to 032	001 to 032
	Keyswitch	255	Any keyswitch	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End #
			Auto Arm Cancelled	000	000
			One-touch Stay/Instant Disarm	001	001
			Disarming with WinLoad	002	002
			Disarming with WinLoad after alarm	003	003
022	Special Digarm Events	000	WinLoad cancelled alarm	004	004
022	Special Disarm Events		Future Use	005	005
			Future Use	006	006
			Future Use	007	007
			(InTouch) Voice Module Disarming	800	008
		255	Any special disarm event	Not Used	Not Used
000	7 5 .	000	Zone Numbers	001 to 192	001 to 192
023	Zone Bypassed	255	Any zone number	Not Used	Not Used
024	Zono in Alarm	000	Zone Numbers	001 to 192	001 to 192
024	Zone in Alarm	255	Any zone number	Not Used	Not Used
025	Fire Alarm	000	Zone Numbers	001 to 192	001 to 192
025	Fire Alaim	255	Any zone number	Not Used	Not Used
026	Zone Alarm Restore	000	Zone Numbers	001 to 192	001 to 192
026	Zone Alaim Restore	255	Any zone number	Not Used	Not Used
027	Fire Alarm Restore	000	Zone Numbers	001 to 192	001 to 192
021	File Alailii Restole	255	Any zone number	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
	Early to Disarm by User	001	User Codes 256 to 511	000 to 255	000 to 255
028		002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
029	Late to Disarm by User	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
			Emergency Panic (Keys 1 & 3)	000	000
			Medical Panic (Keys 4 & 6)	001	001
		000	Fire Panic (Keys 7 & 9)	002	002
030	Special Alarm		Recent Closing	003	003
			Police Code	004	004
			Global Shutdown	005	005
		255	Any special alarm event	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	001 to 255	001 to 255
031	Duress Alarm by User	002	User Codes 512 to 767	001 to 255	001 to 255
		003	User Codes 768 to 999	001 to 231	001 to 231
		255	Any User Code	Not Used	Not Used
032	Zone Shutdown	000	Zone Numbers	001 to 192	001 to 192
		255	Any zone number	Not Used	Not Used
033	Zone Tamper	000	Zone Numbers	001 to 192	001 to 192
	,	255	Any zone number	Not Used	Not Used
034	Zone Tamper Restore	000 255	Zone Numbers Any zone number	001 to 192 Not Used	001 to 192 Not Used
035	Special Tamper	000	Keypad Lockout	000	000

Event Group	Event	Feature Group	Feature	Start #	End#
			TLM Trouble (see NOTE 2 on page 29)	000	000
			AC Failure	001	001
			Battery Failure	002	002
000	Translate French	000	Auxiliary Current Limit	003	003
036	Trouble Event		Bell Current Limit	004	004
			Bell Absent	005	005
			Clock Trouble	006	006
			Global Fire Loop	007	007
		255	Any trouble event	Not Used	Not Used
			TLM Trouble	000	000
			AC Failure	001	001
			Battery Failure	002	002
		000	Auxiliary Current Limit	003	003
037	Trouble Restore		Bell Current Limit	004	004
			Bell Absent	005	005
			Clock Trouble	006	006
			Global Fire Loop	007	007
		255	Any trouble restore event	Not Used	Not Used
		Combus Fault	000	000	
	038 Module Trouble	000	Module Tamper	001	001
			ROM/RAM error	002	002
			TLM Trouble	003	003
038			Fail to Communicate	004	004
			Printer Fault	005	005
			AC Failure	006	006
			Battery Failure	007	007
			Auxiliary Failure	008	008
		255	Any module trouble	Not Used	Not Used
			Combus Fault	000	000
			Module Tamper	001	001
			ROM/RAM error	002	002
			TLM Trouble	003	003
039	Module Trouble Restore	000	Fail to Communicate	004	004
			Printer Fault	005	005
			AC Failure	006	006
			Battery Failure	007	007
		055	Auxiliary Failure	800	008
	Fail to Oamero 1 1	255	Any module trouble restore event	Not Used	Not Used
040	Fail to Communicate on telephone Number	000	Telephone Number	001 to 004	001 to 004
	reiehiione izatiinet	255	Any telephone number Zone Numbers	Not Used 001 to 192	Not Used 001 to 192
041	Low Battery on Zone	000 255		Not Used	Not Used
		000	Any zone number Zone Numbers	001 to 192	001 to 192
042	Zone Supervision Trouble	255			
	Low Pottony on Zone		Any zone number Zone Numbers	Not Used	Not Used
043	Low Battery on Zone Restored	000 255		001 to 192 Not Used	001 to 192 Not Used
			Any zone number Zone Numbers	001 to 192	
044	Zone Supervision Trouble	000			001 to 192
Re	Restored	255	Any zone number	Not Used	Not Used

Event Group	Event	Feature Group	Feature	Start #	End #
			Power up after total power down	000	000
			Software reset (Watchdog)	001	001
			Test Report	002	002
		000	Future Use	003	003
045	Special Events	000	WinLoad In (connected)	004	004
			WinLoad Out (disconnected)	005	005
			Installer in programming	006	006
			Installer out of programming	007	007
		255	Any special event	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
046	Early to Arm by User	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
047	Late to Arm by User	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
048	Utility Key	000	Utility Key 001 to 064 ^{†*}	001 to 064	001 to 064
040	Cunty Ney	255	Any Utility Key ^{†*}	Not Used	Not Used
040	Degreest for Evit	000	Door numbers	001 to 032	001 to 032
049	Request for Exit	255	Any door number	Not Used	Not Used
050	Access Denied	000	Door numbers	001 to 032	001 to 032
050	Access Defiled	255	Any door number	Not Used	Not Used
051	Door Left Open Alarm	000	Door numbers	001 to 032	001 to 032
051	Door Left Open Alaim	255	Any door number	Not Used	Not Used
052	Door Forced Alarm	000	Door numbers	001 to 032	001 to 032
032	Door Torced Alaim	255	Any door number	Not Used	Not Used
053	Door Left Open Restore	000	Door numbers	001 to 032	001 to 032
055	Door Left Open Restore	255	Any door number	Not Used	Not Used
054	Door Forced Open Restore	000	Door numbers	001 to 032	001 to 032
034	Door Forced Open Restore	255	Any door number	Not Used	Not Used
055	Intellizone Triggered	000	Zone Numbers	001 to 192	001 to 192
000	Themzene miggered	255	Any zone number	Not Used	Not Used
056	Zone Excluded on Force	000	Zone Numbers	001 to 192	001 to 192
000	Arming	255	Any zone number	Not Used	Not Used
057	Zone Went Back to Arm	000	Zone Numbers	001 to 192	001 to 192
331	Status	255	Any zone number	Not Used	Not Used
058	New Module Assigned on	000	Module Numbers	001 to 254	001 to 254
	Combus	255	Any moduel number	Not Used	Not Used
059	Module Manually Removed	000	Module Numbers	001 to 254	001 to 254
	From Combus	255	Any moduel number	Not Used	Not Used
060 - 061	Future Use	Future Use	Future Use	Future Use	Future Use
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
062	Access Granted to User	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used

†: see page 29 *: see page 29

Event Group	Event	Feature Group	Feature	Start #	End #
		000	User Codes 001 to 255	001 to 255	001 to 255
		001	User Codes 256 to 511	000 to 255	000 to 255
063 Acc	Access Denied to User	002	User Codes 512 to 767	000 to 255	000 to 255
		003	User Codes 768 to 999	000 to 231	000 to 231
		255	Any User Code	Not Used	Not Used
			Armed	000	000
			Force Armed	001	001
			Stay Armed	002	002
064	Status 1	See Note 1	Instant Armed	003	003
004	Status	on page 29	Strobe Alarm	004	004
			Silent Alarm	005	005
			Audible Alarm	006	006
			Fire Alarm	007	007
			Ready	000	000
			Exit Delay	001	001
			Entry Delay	002	002
		See Note 1	System in Trouble	003	003
065	Status 2	on page 29	Alarm in Memory	004	004
			Zones Bypassed	005	005
			Bypass, Master, Installer Programming	006	006
			Keypad Lockout	007	007
			Intellizone Delay Engaged (see Note 4 on page 29)	000	000
			Fire Delay Engaged	001	001
			Auto Arm	002	002
066	Status 3	See Note 1 on page 29	Arming with Voice Module (set until Exit Delay finishes)	003	003
			Tamper	004	004
			Zone Low Battery	005	005
			Fire Loop Trouble	006	006
			Zone Supervision Trouble	007	007
067	Future Use	Future Use	Future Use	Future Use	Future Use

NOTE 1: 000 = Occurs in all areas enabled in the system (refer to the appropriate control panel Programming Guide).

001 = Area 1 **003** = Area 3 **005** = Area 5 (EVO96/EVO192/DGP-NE96 only) **007** = Area 7 (EVO96/EVO192/DGP-NE96 only)

002 = Area 2 004 = Area 4 006 = Area 6 (EVO96/EVO192/DGP-NE96 only) 008 = Area 8 (EVO96/EVO192/DGP-NE96 only)

255 = Occurs in at least one area enabled in the system.

NOTE 2:This TLM trouble event can only be used with DGP-NE96 control panels that have two dialers.

NOTE 3: This TLM trouble event can only be used with control panels that have one dialer.

NOTE 4: This event cannot be used for a module's PGM programming.

* If a Keyswitch Input is used, the input must be defined as "Generates a Utility Key Event on Open" or "Generates a Utility Key Event on Open and Close". If a remote control is used, the remote control button must be defined as a Utility Key button.

[†]Actions that Activate a Utility Key Event

	Actions					
Utility Key Event	Keypad Utility Keys	Keyswitch Inputs (definition = [3])	Keyswitch Inputs (definition = [4])	Remote Control		
Utility Key Event 1	[1] & [2]	KS** Input 1 opens	KS** Input 1 opens	Utility Key 1 RC button [‡]		
Utility Key Event 2	[4] & [5]	KS** Input 2 opens	KS** Input 1 closes	Utility Key 2 RC button [‡]		
Utility Key Event 3	[7] & [8]	KS** Input 3 opens	KS** Input 2 opens	Utility Key 3 RC button [‡]		
Utility Key Event 4	[CLEAR] & [0] or [*] & [0]	KS** Input 4 opens	KS** Input 2 closes	Utility Key 4 RC button [‡]		
Utility Key Event 5	[2] & [3]	KS** Input 5 opens	KS** Input 3 opens	Utility Key 5 RC button [‡]		
Utility Key Event 6	[5] & [6]	KS** Input 6 opens	KS** Input 3 closes	N/A		
Utility Key Event 7	[8] & [9]	KS** Input 7 opens	KS** Input 4 opens	N/A		
Utility Key Event 8	[0] & [ENTER] or [0] & [#]	KS** Input 8 opens	KS** Input 4 closes	N/A		
Utility Key Event 9	N/A	KS** Input 9 opens	KS** Input 5 opens	N/A		
Utility Key Event 10	N/A	KS** Input 10 opens	KS** Input 5 closes	N/A		
Utility Key Event 11	N/A	KS** Input 11 opens	KS** Input 6 opens	N/A		
Utility Key Event 12	N/A	KS** Input 12 opens	KS** Input 6 closes	N/A		
Utility Key Event 13	N/A	KS** Input 13 opens	KS** Input 7 opens	N/A		
Utility Key Event 14	N/A	KS** Input 14 opens	KS** Input 7 closes	N/A		
Utility Key Event 15	N/A	KS** Input 15 opens	KS** Input 8 opens	N/A		
Utility Key Event 16	N/A	KS** Input 16 opens	KS** Input 8 closes	N/A		
Utility Key Event 17	N/A	KS** Input 17 opens	KS** Input 9 opens	N/A		
Utility Key Event 18	N/A	KS** Input 18 opens	KS** Input 9 closes	N/A		
\	N/A	↓	\	N/A		
Utility Key Event 31	N/A	KS** Input 31 opens	KS** Input 16 opens	N/A		
Utility Key Event 32	N/A	KS** Input 32 opens	KS** Input 16 closes	N/A		
Utility Key Event 33	N/A	N/A	KS** Input 17 opens	N/A		
Utility Key Event 34	N/A	N/A	KS** Input 17 closes	N/A		
\	N/A	N/A	\	N/A		
Utility Key Event 63	N/A	N/A	KS** Input 32 opens	N/A		
Utility Key Event 64	N/A	N/A	KS** Input 32 closes	N/A		

^{**} Keyswitch

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[‡] Refer to the Magellan™ Reference and Installation Manual for remote control button programming instructions.

For technical support in Canada or the U.S., call 1-800-791-1919, Monday to Friday from 8:00 a.m. to 8:00 p.m. EST. For technical support outside Canada and the U.S., call 00-1-450-491-7444, Monday to Friday from 8:00 a.m. to 8:00 p.m. EST. Please feel free to visit our website at www.paradox.com.

