Installation Manual

PC572O

ADT V2.2

W A R N I N G – ***This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.***

DSC™
Security Products

Table of Contents

System Introduction

S E C T I O N 1

Features

The PC5720 is a fire module that can be used for ULC-listed non-residential fire applications. The PC5720 can also be used as an interface between the control panel and either a serial printer or a DVAC communications network.

Module Specifications

- 4-wire (QUAD) hook-up to the Keybus
- Current draw: 80mA standby; 100mA with printer, 120mA with F1/F2-L3
- Tamper and Trouble reporting codes
- Maximum cable length: 200 feet (61 meters)
- Eight zone inputs: one ground fault detection zone, two normally open Class A loops and five standard Class B loops.

PC5720 connected to a serial printer

- True RS-232 technology
- DTR protocol
- Four possible baud rates: 300, 1200, 2400 or 4800

PC5720 connected to a DVACS network

- Automatic programming for extended DVACS reporting codes.
- Monitoring for DVACS line fault
- Module self diagnostics

Compatible Products

- PC5010
- PC5015

Getting Started

S E C T I O N 2

Mounting the Cabinet

When mounting a new cabinet for the PC5720, select a dry location close to where the serial printer will be located (if used), or near the F1/F2 subset if DVACS communications is to be used.

To mount the cabinet:

1. From the back of the cabinet, press in the four white circuit board stand-offs into the raised mounting holes.
2. Holding the cabinet in position, pull all wiring into the cabinet through the hole in the back.
3. Using the provided mounting screws and appropriate wall anchors, mount the cabinet securely to the wall.
4. Press the PC5720 module onto the plastic stand-offs.

Wiring

Refer to the Hook-up Diagram included in this manual.

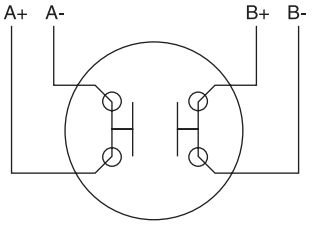
Keybus Wires

Connect the red, black, yellow and green wires to the RED, BLK, YEL and GRN terminals on the control panel, respectively. Refer to your panel's Installation Manual for complete instructions on Keybus wiring.

Zone Input terminals

The zone inputs Z10 to Z14 as well as A and B will report as PC5010 zones 10-16. This is not optional. These zones cannot be programmed to enunciate as any other system zones.The PC5720 zone inputs are as follows:

- The EGND input will report as control panel zone 09. It is a ground fault detection zone only. When the PC5720 detects an incorrect ground connection, a zone 9 trouble is sent to the control panel. Zone 09 must be programmed as a 24-hour supervisory zone (zone type 09). A ground fault cannot cause a false alarm on any zone, nor can it inhibit any zone's performance.
- Zone inputs Z10-Z14 will report as control panel zones 10-14.
- Zones 15 and 16 are normally open Class A loops. These correspond to two sets of A and B terminals on the PC5720. Zones 15 and 16 must be programmed as Delay Fire (zone type 07) or Standard Fire (zone type 08). These zones must be connected according to the following diagram:



Normally Open Class A Loops

The two Normally Open Class A Loops (Zones 15 and 16) function as follows:

- **Restored States**
  A1+ is shorted to A1-.
  B1+ is shorted to B1-.
  There is a Normally-Open contact between A1 and B1.

  A2+ is shorted to A2-.
  B2+ is shorted to B2-.
  There is a Normally-Open contact between A2 and B2.
- **Alarms**
  If the Normally-Open contact between A1 and B1 is shorted a Z15 Alarm will result.
  If the Normally-Open contact between A2 and B2 is shorted a Z16 Alarm will result.
  Note: A short from either A1+ or A1- to either B1+ or B1- will cause an alarm to occur. This is also true to A2 and B2.
- **Troubles**
  If either of the shorts on A1 (+ to -) or B1 (+ to -) is removed, a Z15 Trouble will result.
  If either of the shorts on A2 (+ to -) or B2 (+ to -) is removed, a Z16 Trouble will result.

Tamper

There is no tamper input for the PC5720.

Module Supervision

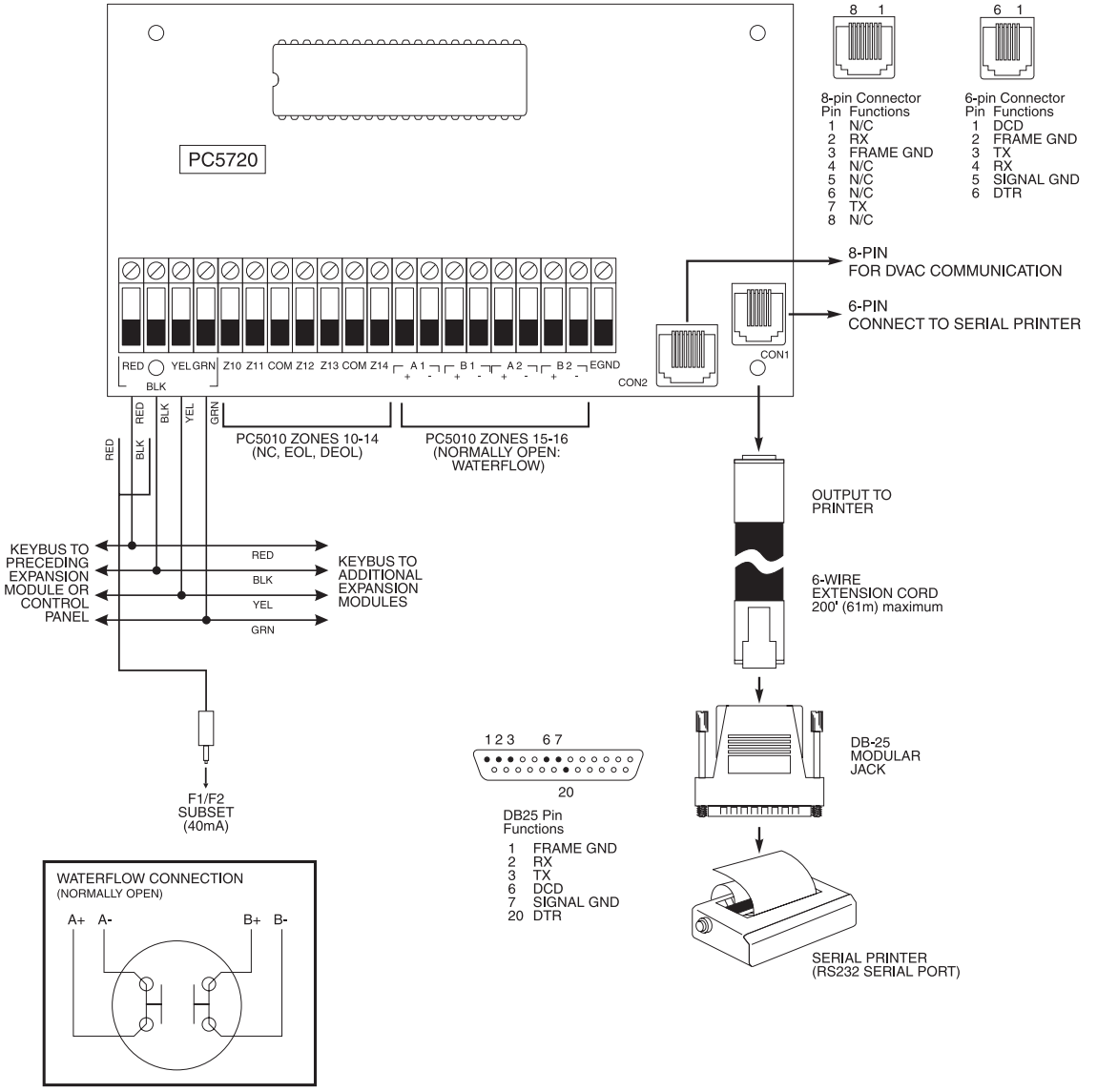
The PC5720 will not be supervised as a single unit unlike the other Power832 modules. It will be supervised as a PC5400 (printer) or alternate communicator (DVAC) and zone expanders 1 and 2 (zones 9-12, zones 13-16). These three areas of supervision correspond to supervision zone lights [20] (printer) or [22] (alternate communicator), [9] and [10] when all modules are displayed by entering [✶] [8] [Installer's Code] [903]. The supervision restorals of all modules will be transmitted through the DVAC line (if used).

In order for the PC5720 to be supervised, you must follow the supervision procedure. For details, please refer to your panel's Installation Manual.

If the PC5720 loses communication with the main panel, a Keybus fault will be transmitted through the DVAC line. The PC5720 (the alternator communicator and zone expanders 1 and 2) will go into supervisory fault. All events which occur during the Keybus fault will not be transmitted through the DVAC line. Once communications have been restored, a Keybus fault restoral will be transmitted and the PC5720 (alternate communicator and zone expanders 1 and 2) will be restored from supervisory fault.

If the PC5720 loses communications with the DVAC receiver, it will stop supervising the alternate communicator, causing an alternate communicator supervisory fault. When communications are restored, an alternate communicator supervisory fault restoral will be sent.

PC5720 Wiring Diagram



Program the PC5720 in module programming section [801] in installer's programming mode. For instructions on installer's programming, refer to your control panel's Installation Manual, section four "How to Program".

If you will be connecting the PC5720 to a serial printer, program sections [01] to [05]. If you will be using DVACS, program section [06], option [1] as OFF. Once the PC5720 has been changed to a DVAC module, you must access DVAC programming in module programming section [803], and complete programming in sections [07] to [52].

Serial Printer Programming:

Section [01], Option [1] Printer Enable/Disable
Enables the module for use with a serial printer.

Section [01], Option [2] Handshake Enable/Disable
Enables a handshake with the printer.

Section [01], Option [3] Printer Columns
Program the number of columns appropriate for the printer.

Section [01], Options [4] to [7] Baud Rate
Program the baud rate the PC5720 module will use to communicate with the serial printer. The baud rate is the speed at which information will be transmitted from the PC5720 module to the serial printer. There are four different baud rates available. If you are experiencing problems with missing characters, try lowering the baud rate.

Section [01], Option [8] Clock display
Program how the clock displays the time.

Section [05] Printer Language Selection
The default language is English. You can program the module for French, Spanish or Swedish.

NOTE: If some characters do not print correctly, try changing the character set your printer uses.

PC5400 Miscellaneous Options – Section [06], Option [1]
Program this options as ON if you will be using a serial printer, or as OFF if you will be using DVACS.

NOTE: If you change this option, the PC5720 will return to its factory default programming.

Section [06], Option [2]: AC Communications
To change from standard DVACS (150 baud) to AC communications protocol (300 baud) program this option as ON.

Section [07]: Subsystem Number
Program the DVACS Subsystem number in this section.

Section [08]: Group Number
Program the DVACS Group number in this section.

Section [09]: Panel DVACS Identifier Code
Program the DVACS ID code in this section.

Sections [10-17], and [50-52]: DVACS Reporting Codes
Program the DVACS reporting codes in these sections (see Appendix A: ADT DVACS Transmission Table):

- To have the PC5720 transmit a pre-programmed code from the internal table, leave the programming at the default value FF.
- To prevent the PC5720 from reporting an event, program the code as 00.
- To have the PC5720 transmit a different code, program a value from 01-FE.

Sections [18-27]: Transmission Options

To prevent the PC5720 from transmitting a group of reporting codes (e.g. zone troubles or zone trouble restorals) program the appropriate option as OFF. All options are ON by default.

Sections [28-35]: Zone Assignments

The programming in these sections tells the PC5720 which partitions each zone is assigned to (on control panels which are capable of partitioning) and/or which zones in active use.

If the PC5720 is connected to a control panel using partitions, make sure that the zone/partition assignments match those programmed in the control panel.

If the PC5720 is connected to a control panel without partitions, you must still program these sections: for each used zone on the control panel, turn ON the option that assigns the zone to partition 1.

Sections [36-39]: Zone Definitions

Make sure that the zone definitions match those programmed in the control panel.

NOTE: If you change any of the above options from the default settings, test the PC5720 to make sure it is operating as desired.

Programming Worksheets

S E C T I O N 4

[01] Printer Configuration

Default		Option	ON	OFF
OFF	⌊___⌋	**1**	Printer Enabled	Printer Disabled
ON	⌊___⌋	**2**	Handshake from Printer (DTR)	No Handshake
OFF	⌊___⌋	**3**	80 Column Printer	40 Column Printer
OFF	⌊___⌋	**4**	300 Baud enabled	300 Baud disabled
OFF	⌊___⌋	**5**	1200 Baud enabled	1200 Baud disabled
ON	⌊___⌋	**6**	2400 Baud enabled	2400 Baud disabled
OFF	⌊___⌋	**7**	4800 Baud enabled	4800 Baud disabled
OFF	⌊___⌋	**8**	**Local clock displays 24hr time**	**Local clock displays AM/PM**

[05] Language Selection

Default

01 ⌊_ _⌋ Printer Language (01=English; 02=French; 03=Spanish; 04=Swedish)

[06] Miscellaneous Options

Default		Option ON	Option OFF
ON	⌊__⌋ ***Option 1***	Serial Printer enabled	DVACS enabled
OFF	⌊__⌋ ***Option 2***	AC Communications	DVACS Communications
OFF	⌊__⌋ ***Option 3-8***	For future use	

PC5010, PC5015 Programming Sections

[07] Subsystem Number

Default

0 0 ⌊__⌋__⌋ (Valid entries are 00-99)

[08] Group Number

Default

0 0 ⌊__⌋__⌋ (Valid entries are 00-99)

[09] Panel Identifier

Default

0 0 ⌊__⌋__⌋ (Valid entries are 00-63)

[10] Zone 1-8 Reporting Codes

Default			Default		
FF	⌊__⌋__⌋	Zone 1	*FF*	⌊__⌋__⌋	Zone 5
FF	⌊__⌋__⌋	Zone 2	*FF*	⌊__⌋__⌋	Zone 6
FF	⌊__⌋__⌋	Zone 3	*FF*	⌊__⌋__⌋	Zone 7
FF	⌊__⌋__⌋	Zone 4	*FF*	⌊__⌋__⌋	Zone 8

[11] Zone 9-16 Reporting Codes

Default			Default		
FF	|__|__|	Zone 9	*FF*	|__|__|	Zone 13
FF	|__|__|	Zone 10	*FF*	|__|__|	Zone 14
FF	|__|__|	Zone 11	*FF*	|__|__|	Zone 15
FF	|__|__|	Zone 12	*FF*	|__|__|	Zone 16

[12] Zone 17-24 Reporting Codes

Default			Default		
FF	|__|__|	Zone 17	*FF*	|__|__|	Zone 21
FF	|__|__|	Zone 18	*FF*	|__|__|	Zone 22
FF	|__|__|	Zone 19	*FF*	|__|__|	Zone 23
FF	|__|__|	Zone 20	*FF*	|__|__|	Zone 24

[13] Zone 25-32 Reporting Codes

Default			Default		
FF	|__|__|	Zone 25	*FF*	|__|__|	Zone 29
FF	|__|__|	Zone 26	*FF*	|__|__|	Zone 30
FF	|__|__|	Zone 27	*FF*	|__|__|	Zone 31
FF	|__|__|	Zone 28	*FF*	|__|__|	Zone 32

[14] Keypad 1-8 Reporting Codes

Default			Default		
FF	|__|__|	Keypad 1	*FF*	|__|__|	Keypad 5
FF	|__|__|	Keypad 2	*FF*	|__|__|	Keypad 6
FF	|__|__|	Keypad 3	*FF*	|__|__|	Keypad 7
FF	|__|__|	Keypad 4	*FF*	|__|__|	Keypad 8

[15] Zone Expander 1-6 Reporting Codes

Default			Default		
FF	|__|__|	Expander 1	*FF*	|__|__|	Expander 5
FF	|__|__|	Expander 2	*FF*	|__|__|	Expander 6
FF	|__|__|	Expander 3	*FF*	|__|__|	PC5100
FF	|__|__|	Expander 4	*FF*	|__|__|	***For future use***

[16] Miscellaneous Reporting Codes

Default			Default		
FF	|__|__|	2 Wire Smoke	*FF*	|__|__|	Keypad [F,A,P]
FF	|__|__|	***For future use***	*FF*	|__|__|	TLM Trouble
FF	|__|__|	Phone #1 FTC	*FF*	|__|__|	Bell Supervisory
FF	|__|__|	Phone #2 FTC	*FF*	|__|__|	***For future use***

[17] Module Reporting Codes

Default			Default		
FF	I__I__I	PC5132	*FF*	I__I__I	ESCORT5580
FF	I__I__I	PC5208	*FF*	I__I__I	PC59xx
FF	I__I__I	PC5204	*FF*	I__I__I	Downlook Module
FF	I__I__I	PC5400	*FF*	I__I__I	Alternate Communicator

[18] First Transmission Options

Default			Option On	Option Off
ON	I__I	***Option 1***	Zone Alarms	Disabled
ON	I__I	***Option 2***	Zone Alarm Restorals	Disabled
ON	I__I	***Option 3***	Zone Troubles	Disabled
ON	I__I	***Option 4***	Zone Trouble Restorals	Disabled
ON	I__I	***Option 5***	Zone Tampers	Disabled
ON	I__I	***Option 6***	Zone Tamper Restorals	Disabled
ON	I__I	***Option 7***	Zone Low Battery	Disabled
ON	I__I	***Option 8***	Zone Bypass	Common Partial Closing

[19] Second Transmission Options

Default			Option On	Option Off
OFF	I__I	***Option 1***	Keypad Fire	Disabled
OFF	I__I	***Option 2***	Keypad Auxiliary	Disabled
OFF	I__I	***Option 3***	Keypad Panic	Disabled
OFF	I__I	***Option 4***	Duress	Disabled
ON	I__I	***Option 5***	Keypad Supervisory	Disabled
ON	I__I	***Option 6***	Keypad Supervisory Restore	Disabled
ON	I__I	***Option 7***	Keypad Tamper	Disabled
ON	I__I	***Option 8***	Keypad Tamper Restore	Disabled

[20] Third Transmission Options

Default			Option On	Option Off
ON	I__I	***Option 1***	Zone Expander Supervisory	Disabled
ON	I__I	***Option 2***	Zone Expander Superv. Restore	Disabled
ON	I__I	***Option 3***	Zone Expander Tamper	Disabled
ON	I__I	***Option 4***	Zone Expander Tamper Restore	Disabled
ON	I__I	***Option 5***	PC5132 Supervisory	Disabled
ON	I__I	***Option 6***	PC5132 Supervisory Restore	Disabled
ON	I__I	***Option 7***	PC5132 Tamper	Disabled
ON	I__I	***Option 8***	PC5132 Tamper Restore	Disabled

[21] Fourth Transmission Options

Default		Option On	Option Off
ON	***Option 1***	PC5400 Supervisory	Disabled
ON	***Option 2***	PC5400 Supervisory Restore	Disabled
ON	***Option 3***	PC5400 Tamper	Disabled
ON	***Option 4***	PC5400 Tamper Restore	Disabled
ON	***Option 5***	Downlook Module Supervisory	Disabled
ON	***Option 6***	DLK Mod. Supervisory Restore	Disabled
ON	***Option 7***	PC5204 Output 1 Fail	Disabled
ON	***Option 8***	PC5204 Output 1 Restore	Disabled

[22] Fifth Transmission Options

Default		Option On	Option Off
ON	***Option 1***	PC5204 Supervisory	Disabled
ON	***Option 2***	PC5204 Supervisory Restore	Disabled
ON	***Option 3***	PC5204 Tamper	Disabled
ON	***Option 4***	PC5204 Tamper Restore	Disabled
ON	***Option 5***	PC5204 AC Failure	Disabled
ON	***Option 6***	PC5204 AC Restore	Disabled
ON	***Option 7***	PC5204 Battery Trouble	Disabled
ON	***Option 8***	PC5204 Battery Restore	Disabled

[23] Sixth Transmission Options

Default		Option On	Option Off
ON	***Option 1***	PC5208 Supervisory	Disabled
ON	***Option 2***	PC5208 Supervisory Restore	Disabled
ON	***Option 3***	PC5208 Tamper	Disabled
ON	***Option 4***	PC5208 Tamper Restore	Disabled
ON	***Option 5***	PC59xx Supervisory	Disabled
ON	***Option 6***	PC59xx Supervisory Restore	Disabled
ON	***Option 7***	ESCORT5580 Supervisory	Disabled
ON	***Option 8***	ESCORT5580 Supervisory Restore	Disabled

[24] Seventh Transmission Options

Default		Option On	Option Off
ON	I__I ***Option 1***	Closing By User	Disabled
OFF	I__I ***Option 2***	Recent Closing	Disabled
ON	I__I ***Option 3***	***For future use***	
ON	I__I ***Option 4***	Automatic Closing	Disabled
ON	I__I ***Option 5***	Quick Arm	Disabled
ON	I__I ***Option 6***	Closing By Maintenance Code	Disabled
ON	I__I ***Option 7***	Closing By Keyswitch Zone	Disabled
ON	I__I ***Option 8***	Closing By Downloading	Disabled

[25] Eighth Transmission Options

Default		Option On	Option Off
ON	I__I ***Option 1***	Opening By User	Disabled
OFF	I__I ***Option 2***	Auto Arm Cancellation	Disabled
ON	I__I ***Option 3***	Opening By Maintenance Code	Disabled
ON	I__I ***Option 4***	Opening By Keyswitch Zone	Disabled
ON	I__I ***Option 5***	Opening By Downloading	Disabled
OFF	I__I ***Option 6***	Opening After Alarm	Disabled
ON	I__I ***Option 7***	Late to Close	Disabled
ON	I__I ***Option 8***	Downlook Module Remote Trigger	Disabled

[26] Ninth Transmission Options

Default		Option On	Option Off
ON	I__I ***Option 1***	Battery Trouble	Disabled
ON	I__I ***Option 2***	AC Failure	Disabled
ON	I__I ***Option 3***	Fire Trouble	Disabled
ON	I__I ***Option 4***	Keybus Failure	Disabled
ON	I__I ***Option 5***	Police Code	Disabled
ON	I__I ***Option 6***	Delinquency	Disabled
ON	I__I ***Option 7***	PC5100 Supervisory	Disabled
ON	I__I ***Option 8***	PC5100 Supervisory Restore	Disabled

[27] Tenth Transmission Options

Default		Option On	Option Off
ON	***Option 1***	PC5204 Trouble	Disabled
ON	***Option 2***	PC5204 Trouble Restore	Disabled
ON	***Option 3***	Alternate Communicator Supervisory	Disabled
ON	***Option 4***	Alternate Comm. Superv. Restore	Disabled
ON	***Option 5***	Alternate Communicator Tamper	Disabled
ON	***Option 6***	Alternate Comm. Tamper Restore	Disabled
ON	***Option 7***	PC5100 Tamper	Disabled
ON	***Option 8***	PC5100 Tamper Restore	Disabled

[28] Partition 1 Zone Assignments (1-8)

Default		Option On	Option Off
ON	***Option 1***	Zone 1 is on Partition 1	Zone 1 is not on Partition 1
ON	***Option 2***	Zone 2 is on Partition 1	Zone 2 is not on Partition 1
ON	***Option 3***	Zone 3 is on Partition 1	Zone 3 is not on Partition 1
ON	***Option 4***	Zone 4 is on Partition 1	Zone 4 is not on Partition 1
ON	***Option 5***	Zone 5 is on Partition 1	Zone 5 is not on Partition 1
ON	***Option 6***	Zone 6 is on Partition 1	Zone 6 is not on Partition 1
ON	***Option 7***	Zone 7 is on Partition 1	Zone 7 is not on Partition 1
ON	***Option 8***	Zone 8 is on Partition 1	Zone 8 is not on Partition 1

[29] Partition 1 Zone Assignments (9-16)

Default		Option On	Option Off
OFF	***Option 1***	Zone 9 is on Partition 1	Zone 9 is not on Partition 1
OFF	***Option 2***	Zone 10 is on Partition 1	Zone 10 is not on Partition 1
OFF	***Option 3***	Zone 11 is on Partition 1	Zone 11 is not on Partition 1
OFF	***Option 4***	Zone 12 is on Partition 1	Zone 12 is not on Partition 1
OFF	***Option 5***	Zone 13 is on Partition 1	Zone 13 is not on Partition 1
OFF	***Option 6***	Zone 14 is on Partition 1	Zone 14 is not on Partition 1
OFF	***Option 7***	Zone 15 is on Partition 1	Zone 15 is not on Partition 1
OFF	***Option 8***	Zone 16 is on Partition 1	Zone 16 is not on Partition 1

[30] Partition 1 Zone Assignments (17-24)

Default		Option On	Option Off
OFF	***Option 1***	Zone 17 is on Partition 1	Zone 17 is not on Partition 1
OFF	***Option 2***	Zone 18 is on Partition 1	Zone 18 is not on Partition 1
OFF	***Option 3***	Zone 19 is on Partition 1	Zone 19 is not on Partition 1
OFF	***Option 4***	Zone 20 is on Partition 1	Zone 20 is not on Partition 1
OFF	***Option 5***	Zone 21 is on Partition 1	Zone 21 is not on Partition 1
OFF	***Option 6***	Zone 22 is on Partition 1	Zone 22 is not on Partition 1
OFF	***Option 7***	Zone 23 is on Partition 1	Zone 23 is not on Partition 1
OFF	***Option 8***	Zone 24 is on Partition 1	Zone 24 is not on Partition 1

[31] Partition 1 Zone Assignments (25-32)

Default		Option On	Option Off
OFF	***Option 1***	Zone 25 is on Partition 1	Zone 25 is not on Partition 1
OFF	***Option 2***	Zone 26 is on Partition 1	Zone 26 is not on Partition 1
OFF	***Option 3***	Zone 27 is on Partition 1	Zone 27 is not on Partition 1
OFF	***Option 4***	Zone 28 is on Partition 1	Zone 28 is not on Partition 1
OFF	***Option 5***	Zone 29 is on Partition 1	Zone 29 is not on Partition 1
OFF	***Option 6***	Zone 30 is on Partition 1	Zone 30 is not on Partition 1
OFF	***Option 7***	Zone 31 is on Partition 1	Zone 31 is not on Partition 1
OFF	***Option 8***	Zone 32 is on Partition 1	Zone 32 is not on Partition 1

[32] Partition 2 Zone Assignments (1-8)

Default		Option On	Option Off
OFF	***Option 1***	Zone 1 is on Partition 2	Zone 1 is not on Partition 2
OFF	***Option 2***	Zone 2 is on Partition 2	Zone 2 is not on Partition 2
OFF	***Option 3***	Zone 3 is on Partition 2	Zone 3 is not on Partition 2
OFF	***Option 4***	Zone 4 is on Partition 2	Zone 4 is not on Partition 2
OFF	***Option 5***	Zone 5 is on Partition 2	Zone 5 is not on Partition 2
OFF	***Option 6***	Zone 6 is on Partition 2	Zone 6 is not on Partition 2
OFF	***Option 7***	Zone 7 is on Partition 2	Zone 7 is not on Partition 2
OFF	***Option 8***	Zone 8 is on Partition 2	Zone 8 is not on Partition 2

[33] Partition 2 Zone Assignments (9-16)

Default		Option On	Option Off
OFF	***Option 1***	Zone 9 is on Partition 2	Zone 9 is not on Partition 2
OFF	***Option 2***	Zone 10 is on Partition 2	Zone 10 is not on Partition 2
OFF	***Option 3***	Zone 11 is on Partition 2	Zone 11 is not on Partition 2
OFF	***Option 4***	Zone 12 is on Partition 2	Zone 12 is not on Partition 2
OFF	***Option 5***	Zone 13 is on Partition 2	Zone 13 is not on Partition 2
OFF	***Option 6***	Zone 14 is on Partition 2	Zone 14 is not on Partition 2
OFF	***Option 7***	Zone 15 is on Partition 2	Zone 15 is not on Partition 2
OFF	***Option 8***	Zone 16 is on Partition 2	Zone 16 is not on Partition 2

[34] Partition 2 Zone Assignments (17-24)

Default		Option On	Option Off
OFF I__I	***Option 1***	Zone 17 is on Partition 2	Zone 17 is not on Partition 2
OFF I__I	***Option 2***	Zone 18 is on Partition 2	Zone 18 is not on Partition 2
OFF I__I	***Option 3***	Zone 19 is on Partition 2	Zone 19 is not on Partition 2
OFF I__I	***Option 4***	Zone 20 is on Partition 2	Zone 20 is not on Partition 2
OFF I__I	***Option 5***	Zone 21 is on Partition 2	Zone 21 is not on Partition 2
OFF I__I	***Option 6***	Zone 22 is on Partition 2	Zone 22 is not on Partition 2
OFF I__I	***Option 7***	Zone 23 is on Partition 2	Zone 23 is not on Partition 2
OFF I__I	***Option 8***	Zone 24 is on Partition 2	Zone 24 is not on Partition 2

[35] Partition 2 Zone Assignments (25-32)

Default		Option On	Option Off
OFF I__I	***Option 1***	Zone 25 is on Partition 2	Zone 25 is not on Partition 2
OFF I__I	***Option 2***	Zone 26 is on Partition 2	Zone 26 is not on Partition 2
OFF I__I	***Option 3***	Zone 27 is on Partition 2	Zone 27 is not on Partition 2
OFF I__I	***Option 4***	Zone 28 is on Partition 2	Zone 28 is not on Partition 2
OFF I__I	***Option 5***	Zone 29 is on Partition 2	Zone 29 is not on Partition 2
OFF I__I	***Option 6***	Zone 30 is on Partition 2	Zone 30 is not on Partition 2
OFF I__I	***Option 7***	Zone 31 is on Partition 2	Zone 31 is not on Partition 2
OFF I__I	***Option 8***	Zone 32 is on Partition 2	Zone 32 is not on Partition 2

ZONE DEFINITIONS

00 Null Zone (Not Used)
01 Delay 1
02 Delay 2
03 Instant
04 Interior
05 Interior, Home-Away
06 Delay, Home-Away
07 Delayed 24-Hour Fire (Hardwired)
08 Standard 24-Hour Fire (Hardwired)
09 24-Hour Supervisory (LINKS)
10 24-Hour Supervisory Buzzer
11 24-Hour Burglary
12 24-Hour Holdup
13 24-Hour Gas
14 24-Hour Heat
15 24-Hour Medical
16 24-Hour Panic
17 24-Hour Emergency
18 24-Hour Sprinkler
19 24-Hour Water
20 24-Hour Freeze
21 24-Hour Latching Tamper
22 Momentary Keyswitch Arm
23 Maintained Keyswitch Arm
24 LINKS Answer
25*Interior Delay
26**24-Hour Non-Alarm
87 Delayed 24-Hour Fire (Wireless)
88 Standard 24-Hour Fire (Wireless)

***** **25** for v2.1 and higher control panels only
****** **26** for v2.2 and higher control panels only

[36] Zone 1-8 Definitions

Default		Default	
01 I__I__I	Zone 1	*04* I__I__I	Zone 5
03 I__I__I	Zone 2	*04* I__I__I	Zone 6
03 I__I__I	Zone 3	*04* I__I__I	Zone 7
03 I__I__I	Zone 4	*04* I__I__I	Zone 8

[37] Zone 9-16 Definitions

Default			Default		
00	|__|__|	Zone 9	*00*	|__|__|	Zone 13
00	|__|__|	Zone 10	*00*	|__|__|	Zone 14
00	|__|__|	Zone 11	*00*	|__|__|	Zone 15
00	|__|__|	Zone 12	*00*	|__|__|	Zone 16

[38] Zone 17-24 Definitions

Default			Default		
00	|__|__|	Zone 17	*00*	|__|__|	Zone 21
00	|__|__|	Zone 18	*00*	|__|__|	Zone 22
00	|__|__|	Zone 19	*00*	|__|__|	Zone 23
00	|__|__|	Zone 20	*00*	|__|__|	Zone 24

[39] Zone 25-32 Definitions

Default			Default		
00	|__|__|	Zone 25	*00*	|__|__|	Zone 29
00	|__|__|	Zone 26	*00*	|__|__|	Zone 30
00	|__|__|	Zone 27	*00*	|__|__|	Zone 31
00	|__|__|	Zone 28	*00*	|__|__|	Zone 32

[50] Hadheld Keypad Low Battery Reporting Codes

Default			Default		
FF	|__|__|	Handheld Keypad #1	FF	|__|__|	***For future use***
FF	|__|__|	Handheld Keypad #2	FF	|__|__|	***For future use***
FF	|__|__|	Handheld Keypad #3	FF	|__|__|	***For future use***
FF	|__|__|	Handheld Keypad #4	FF	|__|__|	***For future use***

[51] Wireless Key 1-8 Low Batery Reporting Codes

Default			Default		
FF	|__|__|	Wireless Key #1	FF	|__|__|	Wireless Key #5
FF	|__|__|	Wireless Key #2	FF	|__|__|	Wireless Key #6
FF	|__|__|	Wireless Key #3	FF	|__|__|	Wireless Key #7
FF	|__|__|	Wireless Key #4	FF	|__|__|	Wireless Key #8

[52] Wireless Key 9-16 Low Batery Reporting Codes

Default			Default		
FF	|__|__|	Wireless Key #9	FF	|__|__|	Wireless Key #13
FF	|__|__|	Wireless Key #10	FF	|__|__|	Wireless Key #14
FF	|__|__|	Wireless Key #11	FF	|__|__|	Wireless Key #15
FF	|__|__|	Wireless Key #12	FF	|__|__|	Wireless Key #16

ADT DVACS Transmission Table

A P P E N D I X A

Note: XX represents 1-32 (Zones, Users)

Note: Please refer to Zone Reporting Type

PC5010 Event Description	ADT Transmission	Comments
Zone xx Alarm (Burglary)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Alarm (Fire)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Alarm (Medical)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Alarm (Holdup)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Alarm (Supervisory)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Alarm (Other)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Restore (Burglary)	BRxx	**Note: Alarm, Trouble and Tamper Restore have the same format. A special procedure should be implemented to send only one restore.**
Zone xx Restore (Fire)	FRxx	
Zone xx Restore (Medical)	MRxx	
Zone xx Restore (Holdup)	HRxx	
Zone xx Restore (Supervisory)	SRxx	
Zone xx Restore (Other)	URxx	
Zone xx Low Batt (Burglary)	BLxx	
Zone xx Low Batt (Fire)	FLxx	
Zone xx Low Batt (Medical)	MLxx	
Zone xx Low Batt (Holdup)	HLxx	
Zone xx Low Batt (Supervisory)	SLxx	
Zone xx Low Batt (Other)	ULxx	
Zone xx Tamper (Burglary)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Tamper (Fire--Sprinkler Only)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Tamper (Medical)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Tamper (Holdup)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Tamper (Supervisory)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Tamper (Other)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Tamper Restore (Burglary)	BRxx	
Zone xx Tamper Restore (Fire)	FRxx	FRxx (for Sprinkler only)
Zone xx Tamper Restore (Medical)	MRxx	
Zone xx Tamper Restore (Holdup)	HRxx	
Zone xx Tamper Restore (Supervisory)	SRxx	
Zone xx Tamper Restore (Other)	URxx	
Zone xx Trouble (Burglary)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Trouble (Fire)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Trouble (Medical)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Trouble (Holdup)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Trouble (Supervisory)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Trouble (Other)	See "ADT DVACS ZONE REPORTING TYPES"	
Zone xx Trouble Restore (Burglary)	BRxx	
Zone xx Trouble Restore (Fire)	FRxx	Delayed and Standard: FR only

PC5010 Event Description	ADT Transmission	Comments
Zone xx Trouble Restore (Sprinkler)	FRxx	
Zone xx Trouble Restore (Medical)	MRxx	
Zone xx Trouble Restore (Holdup)	HRxx	
Zone xx Trouble Restore (Supervisory)	SRxx	
Zone xx Trouble Restore (Other)	URxx	
Zone xx Bypass (Burglary)•	id##BBxx	• option for zone bypasses
Zone xx Bypass (Fire)•	id##FBxx	OR Partial Closing governs
Zone xx Bypass (Medical)•	id##MBxx	these transmissions
Zone xx Bypass (Holdup)•	id##HBxx	• ## = user, XX = zone
Zone xx Bypass (Supervisory)•	id##SBxx	(PC1575 user=0)
Zone xx Bypass (Other)•	id##UBxx	Section 18 option 8 PC5010 Section 19 option 6 PC1575
Duress Alarm	idxxHHp	xx=33 for Duress Alarm on Partition 1 xx=34 for Duress Alarm on Partition 2
Keypad Fire Alarm	IF0✶1ST	
Keypad Auxiliary Alarm	IM0✶1ST	
Keypad Panic Alarm	IE0✶1ST	
PGM2 Aux. Input Alarm	UAxx✶1ST	
PGM2 Aux. Alarm Restoral	URxx	Default xx = 33
Closing By User Code ##	id##CLp	p = 1, 2 (Partition)
Partial Closing	CGp	• option for zone bypasses OR Partial Closing governs this transmission
Recent Closing	CLp	Equivalent Alarm on Exit
Automatic Closing	CAp	
Quick Arm (✶0), Away Arm	id0CLp	
Closing By Maintenance Code	id38CLp	38 - Maintenance Number
Closing By Keyswitch Zone	id44CLp	44 - Keyswitch Number
Closing By Downloading	id45CLp	45 - Download Number
Opening By User Code ##	id##OPp	
Auto Arm Cancellation	CEp	
Opening By Maintenance Code	id38OPp	38 - Maintenance Number
Opening By Keyswitch Zone	id44OPp	44 - Keyswitch Number
Opening By Downloading	id45OPp	45 - Download Number
Opening After Alarm	id##OPp	
Keybus Fault	YC	
Keybus Fault Restore	YO	
Battery Trouble Alarm	YT2	
Battery Trouble Restoral	YR2	
AC Failure Trouble Alarm	AA	
AC Failure Trouble Restoral	AH	
Bell Circuit Trouble Alarm	NT0✶2ST	
Bell Circuit Trouble Restoral	NR0	

PC5010 Event Description	ADT Transmission	Comments
Fire Trouble Alarm	FT	
Fire Trouble Restoral	FR	
Critical Shutdown	YT1	
TLM Trouble	LT0	
Phone Number 1 FTC	LT1	
Phone Number 2 FTC	LT2	
TLM Restoral	LR0	
Phone Number 1 FTC Restoral	LR1	
Phone Number 2 FTC Restoral	LR2	
Aux. Power Supply Trb. Alarm	UTxx	Default xx = 36
Aux. Power Supply Trb. Restore	URxx	
DLS Lead In	RB1	
DLS Lead Out	RS1	
Installer Lead In	id39SI	Only 1 Installer, always 39
Installer Lead Out	id39SO	
ADT On Premise (by maintenance)	id38SI	
ADT Off Premise (by maintenance)	id38SO	
Keypad x Supervisory	ITx✶8ST	x = 1 - 8
Keypad x Supervisory Restoral	IRx	
Keypad x Tamper	IAx✶4ST	
Keypad x Tamper Restoral	IRx	Same as Supervisory Restore
Zone Expander x Supervisory	ETx✶8ST	x = 1 - 6
Zone Expander x Supervisory Restoral	ERx	
Zone Expander x Tamper	EAx✶4ST	
Zone Expander x Tamper Restoral	ERx	Same as Supervisory Restore
PC5132 Supervisory	ETx✶8ST	Default x = 7
PC5132 Supervisory Restore	ERx	
PC5132 Tamper	EAx✶4ST	
PC5132 Tamper Restore	ERx	Same as Supervisory Restore
PC59XX Supervisory	UTx✶8ST	Default x = 38
PC59XX Supervisory Restore	URx	
ESCORT5580 Supervisory	UTx✶8ST	Default x = 39
ESCORT5580 Supervisory Restore	URx	
PC5208 Supervisory	UTxx✶8ST	Same as Untyped Zones Trouble
PC5208 Supervisory Restore	URxx	Default xx = 34, After last zone #
PC5208 Tamper	UTxx✶4ST	
PC5208 Tamper Restore	URxx	Same as Supervisory Restore
PC5204 Supervisory	UTxx✶8ST	Default xx = 35
PC5204 Supervisory Restore	URxx	
PC5204 Tamper	UTxx✶4ST	

PC5010 Event Description	ADT Transmission	Comments
PC5204 Tamper Restore	URxx	
PC5204 AC Fail	UTxx	
PC5204 AC Restore	URxx	
PC5204 Batt Trouble	UTxx✶16ST	
PC5204 Batt Restore	URxx	
PC5204 Output 1 Fail	UTxx	
PC5204 Output 1 Restore	URxx	
PC5204 Circuit Trouble	UTxx✶2ST	
PC5204 Circuit Restore	URxx	
PC5720DV Tamper	UTx✶4ST	Default x = 37
PC5720DV Tamper Restore	URx	
PC5720DV Supervisory Alarm	UTx✶8ST	
PC5720DV Supervisory Restore	URx	
Alternate Communicator Tamper	UTxx✶4ST	Default xx=41
Alternate Comm.Tamper Restore	URxx	
Alternate Comm. Supervisory Alarm	UTxx✶8ST	
Alternate Comm. Supervisory Restore	URxx	
Downlook Module Supervisory	UTxx✶8ST	PC5015 Only - Default xx = 40
Downlook Module Supervisory Restore	URxx	PC5015 Only
Downlook Module Remote Trigger	RV	PC5015 Only
Late To Close	OTp	p = Partition (1 or 2); PC5015 Only
Cross Zone Police Code	BVp	p = Partition (1 or 2)
Delinquency Code	ITp	p = Partition (1 or 2)
Handheld Keypad Low Battery	IAxx✶16ST	xx = 9-12
Handheld Keypad Low Batt. Restore	IRxx	
Wireless Key Low Battery	IAxx✶16ST	xx = 17-32
Wireless Key Low Batt. Restore	IRxx	
PC5100 Supervisory	ETxx✶8ST	xx = 42
PC5100 Supervisory Restore	ERxx	
PC5100 Tamper	EAxx✶4ST	xx = 42
PC5100 Tamper Restore	ERxx	

The following events are not supported by ADT and will not be transmitted to the central station:

Expansion Mod. Supervisory Alm.
Expansion Mod. Supervisory Rst.
Special Closing
Special Opening
Home Arm Mode
No Entry Arm Mode(✶+9+Access Cd)
Zone xx Low Bt. Restore (All Zone Definitions)
Remote ESCORT Access
Cold Start
Periodic Test Transmission
LINKS 1000 Test Transmission
System Test
Keypad Lockout
DLS Message Received
DLS Message Cleared
Event Buffer 75% Full
Quick Exit
Utility Output /Command Output #1
Sensor Reset/Command Output #2
Command Output #3
Command Output #4
Default Successful
Default Failed
Swinger Shutdown
Re-Activating Home Away Zones
[✶][5] By Access Code ## (40 - 42)
[✶][6] By Access Code ## (40 - 42)

Special Events for PC5010 v1.03 ADTU

PC5010 v1.03 ADTU Event Description	ADT Transmission	Comments
No Close Partition 1	OT1	no tx options
No Close Partition 2	OT2	no tx options
Change Closing Time	idxxCEp	no tx options, xx = user
Sick Sensor	BTxx✶32ST	xx = Alarm Rep Code, no tx options

Events NOT Transmitted when using the PC5720 with the PC5010 v1.03 ADTU

2-Wire Smoke Alarm	FAxx✶1ST	
2-Wire Smoke Alarm Restoral	FRxx	Default xx = 33
Phone Number 1 FTC	LT1	
Phone Number 2 FTC	LT2	
Phone Number 1 FTC Restoral	LR1	
Phone Number 2 FTC Restoral	LR2	

ADT DVAC Zone Reporting Types

A P P E N D I X B

	DUAL-EOL / ZONE DOUBLER					
	DEVICE ACTIVATED (OPENS CONTACTS)		OPEN LOOP		SHORT ON LOOP	
INPUT POINT ASSIGNMENT	**ARMED**	**DISARMED**	**ARMED**	**DISARMED**	**ARMED**	**DISARMED**
00 NULL	-	-	-	-	-	-
01 DELAY 1	BA✶2ST	1	BA✶2ST	BT✶2ST	BA✶1ST	BT✶1ST
02 DELAY 2	BA✶2ST	1	BA✶2ST	BT✶2ST	BA✶1ST	BT✶1ST
03 INSTANT	BA✶2ST	1	BA✶2ST	BT✶2ST	BA✶1ST	BT✶1ST
04 INTERIOR	BA✶2ST	1	BA✶2ST	BT✶2ST	BA✶1ST	BT✶1ST
05 INTERIOR HOME/AWAY	BA✶2ST	1	BA✶2ST	BT✶2ST	BA✶1ST	BT✶1ST
06 DELAY HOME/AWAY	BA✶2ST	1	BA✶2ST	BT✶2ST	BA✶1ST	BT✶1ST
07 DELAY 24HR FIRE	FT	FT	FT	FT	FA✶1ST	FA✶1ST
08 STANDARD 24 HR FIRE	FT	FT	FT	FT	FA✶1ST	FA✶1ST
09 24HR SUPV BUZZER	ST✶1ST	ST✶1ST	ST✶1ST	ST✶1ST	SS✶2ST	SS✶2ST
10 24HR SUPERVISORY	SS✶2ST	SS✶2ST	ST✶2ST	ST✶2ST	ST✶1ST	ST✶1S
11 24HR BA	BA✶2ST	BA✶2ST	BA✶2ST	BT✶2ST	BA✶1ST	BT✶1ST
12 24HR HOLDUP	HA✶2ST	HA✶2ST	HT✶2ST	HT✶2ST	HT✶1ST	HT✶1ST
13 24HR GAS	UA✶2ST	UA✶2ST	UT✶2ST	UT✶2ST	UT✶1ST	UT✶1ST
14 24HR HEAT	UA✶2ST	UA✶2ST	UT✶2ST	UT✶2ST	UT✶1ST	UT✶1ST
15 24HR MEDICAL	MA✶2ST	MA✶2ST	MT✶2ST	MT✶2ST	MT✶1ST	MT✶1ST
16 24HR PANIC	BA✶2ST	BA✶2ST	BT✶2ST	BT✶2ST	BT✶1ST	BT✶1ST
17 24HR EMERGENCY	MA✶2ST	MA✶2ST	MT✶2ST	MT✶2ST	MT✶1ST	MT✶1ST
18 24HR SPRINKLER	FA✶2ST	FA✶2ST	FT✶2ST	FT✶2ST	FT✶1ST	FT✶1ST
19 24HR WATER	SS✶2ST	SS✶2ST	ST✶2ST	ST✶2ST	ST✶1ST	ST✶1ST
20 24HR FREEZE	UA✶2ST	UA✶2ST	UT✶2ST	UT✶2ST	UT✶1ST	UT✶1ST
21 24HR LATCHING TAMPER	BA✶2ST	BA✶2ST	BT✶2ST	BT✶2ST	BT✶1ST	BT✶1ST
22 MOMENTARY KEYSWITCH	-	-	BT✶2ST	BT✶2ST	BT✶1ST	BT✶1ST
23 MAINTAINED KEYSWITCH	-	-	BT✶2ST	BT✶2ST	BT✶1ST	BT✶1ST
24 LINKS ANSWER	-	-	-	-	-	-
25 INTERIOR DELAY	BA✶2ST	1	BA✶2ST	BT✶2ST	BA✶1ST	BT✶1ST
26 24HR NON-ALARM	UA✶2ST	UA✶2ST	UT✶2ST	UT✶2ST	UT✶1ST	UT✶1ST
87 DELAY 24HR FA (Wireless)	FT	FT	FT	FT	FA✶1ST	FA✶1ST
88 STAND 24HR FA (Wireless)	FT	FT	FT	FT	FA✶1ST	FA✶1ST

1 - Ignored by Control

	NORMALLY CLOSED		SINGLE EOLR			
			CROSS		OPEN	
INPUT POINT ASSIGNMENT	**ARMED**	**DISARMED**	**ARMED**	**DISARMED**	**ARMED**	**DISARMED**
00 NULL	-	-	-	-	-	-
01 DELAY 1	BA✶2ST	1	BA✶2ST	1	BA✶2ST	1
02 DELAY 2	BA✶2ST	1	BA✶2ST	1	BA✶2ST	1
03 INSTANT	BA✶2ST	1	BA✶2ST	1	BA✶2ST	1
04 INTERIOR	BA✶2ST	1	BA✶2ST	1	BA✶2ST	1
05 INTERIOR HOME/AWAY	BA✶2ST	1	BA✶2ST	1	BA✶2ST	1
06 DELAY HOME/AWAY	BA✶2ST	1	BA✶2ST	1	BA✶2ST	1
07 DELAY 24HR FIRE	-	-	FA✶1ST	FA✶1ST	FT	FT
08 STANDARD 24 HR FIRE	-	-	FA✶1ST	FA✶1ST	FT	FT
09 24HR SUPV BUZZER	-	-	SS✶2ST	SS✶2ST	ST✶1ST	ST✶1ST
10 24HR SUPERVISORY	SS✶2ST	SS✶2ST	SS✶2ST	SS✶2ST	SS✶2ST	SS✶2ST
11 24HR BA	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST
12 24HR HOLDUP	HA✶2ST	HA✶2ST	HA✶2ST	HA✶2ST	HA✶2ST	HA✶2ST
13 24HR GAS	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST
14 24HR HEAT	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST
15 24HR MEDICAL	MA✶2ST	MA✶2ST	MA✶2ST	MA✶2ST	MA✶2ST	MA✶2ST
16 24HR PANIC	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST
17 24HR EMERGENCY	MA✶2ST	MA✶2ST	MA✶2ST	MA✶2ST	MA✶2ST	MA✶2ST
18 24HR SPRINKLER	FA✶2ST	FA✶2ST	FA✶2ST	FA✶2ST	FA✶2ST	FA✶2ST
19 24HR WATER	SS✶2ST	SS✶2ST	SS✶2ST	SS✶2ST	SS✶2ST	SS✶2ST
20 24HR FREEZE	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST
21 24HR LATCHING TAMPER	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST	BA✶2ST
22 MOMENTARY KEYSWITCH	-	-	-	-	-	-
23 MAINTAINED KEYSWITCH	-	-	-	-	-	-
24 LINKS ANSWER	-	-	-	-	-	-
25 INTERIOR DELAY	BA✶2ST	1	BA✶2ST	1	BA✶2ST	1
26 24HR NON-ALARM	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST	UA✶2ST
87 DELAY 24HR FA (Wireless)	-	-	FA✶1ST	FA✶1ST	FT	FT
88 STAND 24HR FA (Wireless)	-	-	FA✶1ST	FA✶1ST	FT	FT

1 - Ignored by Control

LIMITED WARRANTY

Digital Security Controls Ltd. warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls Ltd. shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original owner must promptly notify Digital Security Controls Ltd. in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls Ltd. shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls Ltd. must first obtain an authorization number. Digital Security Controls Ltd. will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Digital Security Controls Ltd. such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Digital Security Controls Ltd.);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Digital Security Controls Ltd.'s liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls Ltd. be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) And of all other obligations or liabilities on the part of Digital Security Controls Ltd. Digital Security Controls Ltd. neither assumes nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

WARNING: Digital Security Controls Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Installer's Lockout

Any products returned to DSC which have the Installer's Lockout option enabled and exhibit no other problems will be subject to a service charge.

Out of Warranty Repairs

Digital Security Controls Ltd. will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls Ltd. must first obtain an authorization number. Digital Security Controls Ltd. will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Digital Security Controls Ltd. determines to be repairable will be repaired and returned. A set fee which Digital Security Controls Ltd. has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Digital Security Controls Ltd. determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

WARNING **Please Read Carefully**

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

■ Inadequate Installation

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

■ Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

■ Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

■ Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

■ Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

■ Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

■ System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm.

■ Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

■ Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbeques, fireplaces, sunlight, steam vents, lighting and so on.

■ Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

■ Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

■ Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

■ Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

■ Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

■ Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

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