Installation Manual

PC572O

SUR-GARD 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™
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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

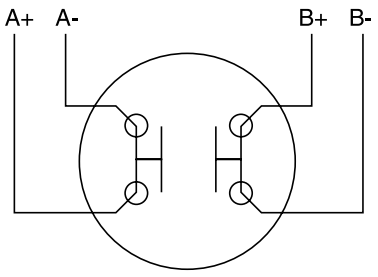
Connect the red, black, yellow and green wires to the RED, BLK, YEL and GRN terminals on the control panel, respectively. Refer to your panel's Installation Manual for complete instructions on Keybus wiring.

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

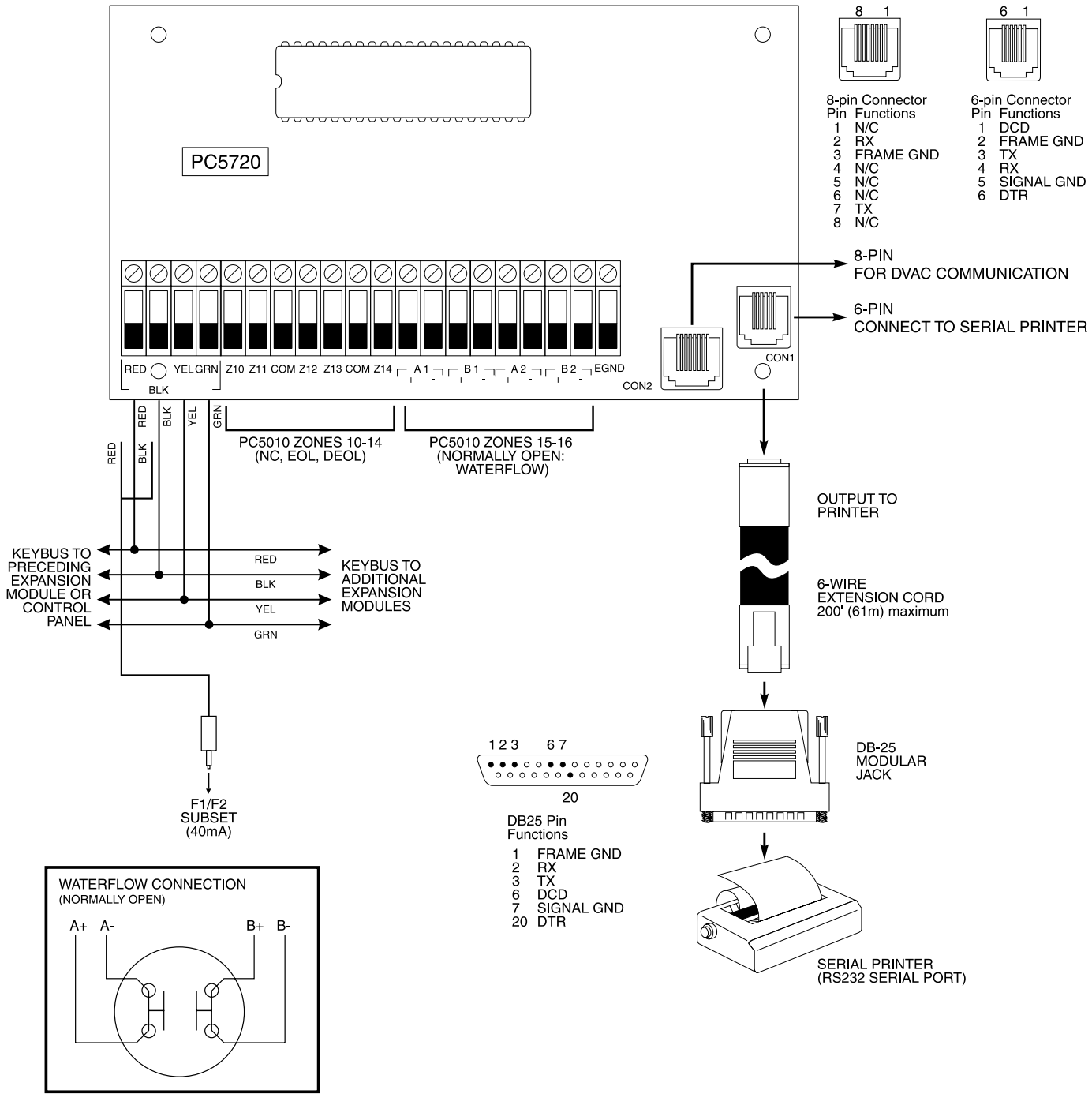
The PC5720 will not be supervised as a single unit unlike the other Power832 modules. It will be supervised as a PC5400 (printer) or alternate communicator (DVAC) and zone expanders 1 and 2 (zones 9-12, zones 13-16). These three areas of supervision correspond to supervision zone lights [20] (printer) 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



Programming Sections

S E C T I O N 3

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 [10] to [94].

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.

Sections [10-13] Wireless & Miscellaneous Reporting Codes
Program the DVACS reporting codes in these sections (see DVACS Transmission Table for Transmission Codes):

- To have the PC5720 transmit a pre-programmed code from the internal table, leave the programming at the default value FF. Default reporting codes are listed in the Appendix B.
- 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 [20-23] Wireless & Miscellaneous Reporting Types
By programming the Reporting Types sections, you can add additional information to each transmission.

For example, you can program the reporting *code* for zone 1 as 01 and the reporting *type* for zone 1 as 00, to indicate that zone 1 is a fire zone. Refer to the DVACS Reporting Type tables on pages 24-27.

- To have the PC5720 transmit a pre-programmed code from the internal table, leave the programming at the default value FF. Default reporting types are listed in the Appendix A.
- To have the PC5720 transmit a different code, program a value from 00-7F.

NOTE: Do not program values above 7F.

Sections [36-39] Zone Definitions
Make sure that the zone definitions match those programmed in the control panel.

Section [40] DVACS ID Code
Program the DVACS ID code in this section. This code identifies a PC5720 module on a DVACS subset, specifying which poll from a F2 node the module will respond to. Valid entries are 01 - F0.

Section [41] All Call Select
Use this section to program which all call response the PC5720 will have. The options are:

(00) no response on any all call

(01) response on all call #1 only

(02) response on all call #2 only

(03) response on both all calls

(04) modules with odd-numbered ID codes (see section 40) respond to All Call #1. Modules with even-numbered ID codes respond to All Call #2. (E.g. a module withID code 03 will respond to All Call #1. A module with ID code 04 will respond to All Call #2.)

Section [42] Miscellaneous (Transmission) Options
Option 1: Turn this option ON to have the PC5720 send alarms during an all call. Turn this option OFF to have the PC5720 send alarms and restorals during an all call.

Option 2: Turn this option ON to have the PC5720 report which zones have been bypassed. Turn this option OFF for prevent the PC5720 from reporting which zones have been bypassed.

Option 3: Turn this option ON to have the PC5720 report openings and closings. Turn this option OFF to to prevent the PC5720 from reporting openings and closings.

Sections [43-68] Reporting Codes
Program the DVACS reporting codes in these sections (see DVACS Transmission Table for Transmission Codes):

- To have the PC5720 transmit a pre-programmed code from the internal table, leave the programming at the default value FF. Default reporting codes are listed in the Appendices B.
- 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 [69-94] Reporting Types

By programming the Reporting Types sections, you can add additional information to each transmission.

For example, you can program the reporting *code* for zone 1 as 01 and the reporting *type* for zone 1 as 00, to indicate that zone 1 is a fire zone. Refer to the DVACS Reporting Type tables on pages 24-27.

- To have the PC5720 transmit a pre-programmed code from the internal table, leave the programming at the default value FF. Default reporting types are listed in the Appendix A.
- To have the PC5720 transmit a different code, program a value from 00-7F.

NOTE: Do not program values above 7F.

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 2-8***	For future use	

PC5010 and PC5015 Programming Sections

If you will be connecting the PC5720 to a PC5010 or PC5015 control panel, access the PC5720 programming sections at a system keypad by entering [✶][8][Installer's Code][803]. Then enter the 2-digit number of the section you want to program.

[10] Handheld 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***

[11] Wireless Key 1-8 Low Battery 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

[12] Wireless Key 9-16 Low Battery 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

[13] Miscellaneous Option Reporting Codes

Default			Default		
FF	___	Police Code	*FF*	___	***For future use***
FF	___	Delinquency Code	*FF*	___	***For future use***
FF	___	Late to Close	*FF*	___	***For future use***
FF	___	Event Buffer 75% Full	*FF*	___	***For future use***

[20] Handheld Keypad Low Battery Reporting Types

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***

[21] Wireless Key 1-8 Low Battery Reporting Types

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

[22] Wireless Key 9-16 Low Battery Reporting Types

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

[23] Miscellaneous Option Reporting Types

Default			Default		
FF	| | |	Police Code	*FF*	| | |	***For future use***
FF	| | |	Delinquency Code	*FF*	| | |	***For future use***
FF	| | |	Late to Close	*FF*	| | |	***For future use***
FF	| | |	Event Buffer 75% Full	*FF*	| | |	***For future use***

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	| | |	Zone 1	*04*	| | |	Zone 5
03	| | |	Zone 2	*04*	| | |	Zone 6
03	| | |	Zone 3	*04*	| | |	Zone 7
03	| | |	Zone 4	*04*	| | |	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	I__I__I	Zone 25	*00*	I__I__I	Zone 29
00	I__I__I	Zone 26	*00*	I__I__I	Zone 30
00	I__I__I	Zone 27	*00*	I__I__I	Zone 31
00	I__I__I	Zone 28	*00*	I__I__I	Zone 32

[40] ID Code

Default

00 I__I__I

[41] All Call Select

Default

01 I__I__I

00 No response on All Call
01 Response on All Call #1 only
02 Response on All Call #2 only
03 Response on both All Calls
04 Modules with odd-numbered ID codes (see section 40) respond to All Call #1. Modules with even-numbered ID codes respond to All Call #2. (E.g. a module withID code 03 will respond to All Call #1. A module with ID code 04 will respond to All Call #2.)

[42] Miscellaneous Options

Default			Option ON	Option OFF
ON	I__I	***Option 1***	All Call Sends Alarms Only	All Call Sends Alarms & Restorals
ON	I__I	***Option 2***	Zone Bypass Report Enabled	Zone Bypass Report Disabled
ON	I__I	***Option 3***	Openings/Closings Enabled	Openings/Closings Disabled
OFF	I__I	***Option 4 -8***	***For future use***	

[43] First SG-DVACS Reporting Codes

Default			Default		
FF	I__I__I	Duress Alarm	*FF*	I__I__I	Aux. Input Alarm / Restore
FF	I__I__I	Keypad [F] Key Alarm / Restore	*FF*	I__I__I	PC5132 Tamper / Restore
FF	I__I__I	Keypad [A] Key Alarm / Restore	*FF*	I__I__I	PC5208 Tamper / Restore
FF	I__I__I	Keypad [P] Key Alarm / Restore	*FF*	I__I__I	PC5204 Tamper / Restore

[44] Second SG-DVACS Reporting Codes

Default			Default		
FF	___	PC5400 Tamper / Restore	*FF*	___	Bell Circuit Trouble / Restore
FF	___	LINKS Module Tamper / Restore	*FF*	___	Fire Trouble Alarm / Restore
FF	___	Battery Trouble / Restore	*FF*	___	Aux Power Trouble / Restore
FF	___	AC Trouble / Restore	*FF*	___	TLM (LINKS) Trouble / Restore

[45] Third SG-DVACS Reporting Codes

Default			Default		
FF	___	Phone Number 1 Trouble / Restore	*FF*	___	Critical Shutdown
FF	___	Phone Number 2 Trouble / Restore	*FF*	___	PC5204 AC Trbl / Rest
FF	___	DLS Lead Out Failed	*FF*	___	PC5204 Battery Trbl / Rest
FF	___	Keybus Fault / Restore	*FF*	___	PC5204 Aux Power Trbl / Rest

[46] Fourth SG-DVACS Reporting Codes

Default			Default		
FF	___	PC5204 Output Fault / Restore	*FF*	___	PC5204 Supv. Fault / Rest
FF	___	Downlook Module Supv./Restore	*FF*	___	PC5400 Supv. Fault / Rest
FF	___	PC5132 Supervisory Fault / Restore	*FF*	___	Alt. Comm (LINKS) Supv Flt/Rest
FF	___	PC5208 Supervisory Fault / Restore	*FF*	___	PC59XX Supv. Fault / Rest

[47] Fifth SG-DVACS Reporting Codes

Default			Default		
FF	___	ESCORT 5580 Supv Fault / Restore	*FF*	___	System Test
FF	___	Keypad Lockout	*FF*	___	Installer Lead In / Lead Out
FF	___	Remote ESCORT Access	*FF*	___	Cold Start
FF	___	DLS Lead In / Lead Out	*FF*	___	Warm Start

[48] Sixth SG-DVACS Reporting Codes

Default			Default		
FF	___	Swinger Shutdown	*FF*	___	Auto Arm Cancellation
FF	___	S-A Mode / Activate S-A Zones	*FF*	___	Partial Closing
FF	___	Opening After Alarm	*FF*	___	For future use
FF	___	Recent Closing	*FF*	___	Dwnlook Module Remote Trigger

[49] Zone 1-8 Alarm / Restore / Bypass 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

[50] Zone 9-16 Alarm / Restore / Bypass 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

[51] Zone 17-24 Alarm / Restore / Bypass 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

[52] Zone 25-32 Alarm / Restore / Bypass 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

[53] Zone 1-8 Tamper / Restore 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

[54] Zone 9-16 Tamper / Restore 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

[55] Zone 17-24 Tamper / Restore 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

[56] Zone 25-32 Tamper / Restore 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

[57] Zone 1-8 Trouble / Restore 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

[58] Zone 9-16 Trouble / Restore 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

[59] Zone 17-24 Trouble / Restore 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

[60] Zone 25-32 Trouble / Restore 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

[61] Zone 1-8 Low Battery / Restore 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

[62] Zone 9-16 Low Battery / Restore 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

[63] Zone 17-24 Low Battery / Restore 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

[64] Zone 25-32 Low Battery / Restore 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

[65] Keypad Tamper / Restore 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

[66] Zone Expander Tamper / Restore Reporting Codes

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

[67] Keypad Supervisory / Restore 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

[68] Zone Expander Supervisory / Restore Reporting Codes

Default			Default		
FF	___	Zone Expander 1	*FF*	___	Zone Expander 5
FF	___	Zone Expander 2	*FF*	___	Zone Expander 6
FF	___	Zone Expander 3	*FF*	___	PC5100
FF	___	Zone Expander 4	*FF*	___	Expander Module

Reporting Types - Refer to the Reporting Type Table

[69] Zone 1-8 Alarm / Restore / Bypass Reporting Types

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

[70] Zone 9-16 Alarm / Restore / Bypass Reporting Types

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

[71] Zone 17-24 Alarm / Restore / Bypass Reporting Types

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

[72] Zone 25-32 Alarm / Restore / Bypass Reporting Types

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

[73] Zone 1-8 Tamper / Restore Reporting Types

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

[74] Zone 9-16 Tamper / Restore Reporting Types

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

[75] Zone 17-24 Tamper / Restore Reporting Types

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

[76] Zone 25-32 Tamper / Restore Reporting Types

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

[77] Zone 1-8 Trouble / Restore Reporting Types

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

[78] Zone 9-16 Trouble / Restore Reporting Types

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

[79] Zone 17-24 Trouble / Restore Reporting Types

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

[80] Zone 25-32 Trouble / Restore Reporting Types

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

[81] Zone 1-8 Low Battery / Restore Reporting Types

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

[82] Zone 9-16 Low Battery / Restore Reporting Types

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

[83] Zone 17-24 Low Battery / Restore Reporting Types

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

[84] Zone 25-32 Low Battery / Restore Reporting Types

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

[85] Keypad Tamper / Restore Reporting Types

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

[86] Zone Expander Tamper / Restore Reporting Types

Default			Default		
FF	___	Zone Expander 1	*FF*	___	Zone Expander 5
FF	___	Zone Expander 2	*FF*	___	Zone Expander 6
FF	___	Zone Expander 3	*FF*	___	PC5100
FF	___	Zone Expander 4	*FF*	___	***For future use***

[87] Keypad Supervisory / Restore Reporting Types

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

[88] Zone Expander Supervisory / Restore Reporting Types

Default			Default		
FF	___	Zone Expander 1	*FF*	___	Zone Expander 5
FF	___	Zone Expander 2	*FF*	___	Zone Expander 6
FF	___	Zone Expander 3	*FF*	___	PC5100
FF	___	Zone Expander 4	*FF*	___	Expander Module

[89] First DVACS Reporting Types

Default			Default		
FF	___	Duress Alarm	*FF*	___	PGM2 Input Alarm/Restore
FF	___	Keypad [F] Key Alarm / Restore	*FF*	___	PC5132 Tamper / Restore
FF	___	Keypad [A] Key Alarm / Restore	*FF*	___	PC5208 Tamper / Restore
FF	___	Keypad [P] Key Alarm / Restore	*FF*	___	PC5204 Tamper / Restore

[90] Second DVACS Reporting Types

Default			Default		
FF	___	PC5400 Tamper / Restore	*FF*	___	Bell Circuit Trouble / Restore
FF	___	LINKS Module Tamper / Restore	*FF*	___	Fire Trouble Alarm / Restore
FF	___	Battery Trouble / Restore	*FF*	___	***For future use***
FF	___	AC Trouble / Restore	*FF*	___	TLM (LINKS) Trouble / Restore

[91] Third DVACS Reporting Types

Default			Default		
FF	___	Phone Number 1 Trouble / Restore	*FF*	___	Critical Shutdown
FF	___	Phone Number 2 Trouble / Restore	*FF*	___	PC5204 AC Trbl / Rest
FF	___	DLS Lead Out Failed	*FF*	___	PC5204 Battery Trbl / Rest
FF	___	Keybus Fault / Restore	*FF*	___	PC5204 Aux Power Trbl / Rest

[92] Fourth DVACS Reporting Types

Default			Default		
FF	___	PC5204 Output Fault / Restore	*FF*	___	PC5204 Supv. Fault / Rest
FF	___	Dwnlk Module Supervisory Fault	*FF*	___	PC5400 Supv. Fault / Rest
FF	___	PC5132 Supervisory Fault / Restore	*FF*	___	LINKS Mod. Supv. Fault / Rest
FF	___	PC5208 Supervisory Fault / Restore	*FF*	___	PC59XX Supv. Fault / Rest

[93] Fifth DVACS Reporting Types

Default			Default		
FF	___	ESCORT 5580 Supv Fault / Restore	*FF*	___	System Test
FF	___	Keypad Lockout	*FF*	___	Installer Lead In / Lead Out
FF	___	Remote ESCORT Access	*FF*	___	Cold Start
FF	___	DLS Lead In / Lead Out	*FF*	___	Warm Start

[94] Sixth DVACS Reporting Types

Default			Default		
FF	___	Swinger Shutdown	*FF*	___	Auto Arm Cancellation
FF	___	H-A Mode / Activate H-A Zones	*FF*	___	Partial Closing
FF	___	Opening After Alarm	*FF*	___	For future use
FF	___	Recent Closing	*FF*	___	Dwnlk Module Remote Trigger

DVAC Reporting Types

A P P E N D I X A

Alarm Reporting Types:

Rep.Type	Printer MSG		Computer MSG	
00	Fire	Alm/Rst/Byp/Unb Zn000-999	FA/FH/FB/FU	000-999
01	Sprnklr	Alm/Rst/Byp/Unb Zn000-999	SA/SH/SB/SU	000-999
02	Panic	Alm/Rst/Byp/Unb Zn000-999	PA/PH/PB/PU	000-999
03	Hold up	Alm/Rst/Byp/Unb Zn000-999	HA/HH/HB/HU	000-999
04	Medical	Alm/Rst/Byp/Unb Zn000-999	MA/MH/MB/MU	000-999
05	Emergen	Alm/Rst/Byp/Unb Zn000-999	QA/QH/QB/QU	000-999
06	Burglar	Alm/Rst/Byp/Unb Zn000-999	BA/BH/BB/BU	000-999
07	DelayHA	Alm/Rst/Byp/Unb Zn000-999	BA/BH/BB/BU	000-999
08	Delay	Alm/Rst/Byp/Unb Zn000-999	BA/BH/BB/BU	000-999
09	Instant	Alm/Rst/Byp/Unb Zn000-999	BA/BH/BB/BU	000-999
0A	Interio	Alm/Rst/Byp/Unb Zn000-999	BA/BH/BB/BU	000-999
0B	InterHA	Alm/Rst/Byp/Unb Zn000-999	BA/BH/BB/BU	000-999
0C	Motion	Alm/Rst/Byp/Unb Zn000-999	BA/BH/BB/BU	000-999
0D	Water	Alm/Rst/Byp/Unb Zn000-999	WA/WH/WB/WU	000-999
0E	Freeze	Alm/Rst/Byp/Unb Zn000-999	ZA/ZH/ZB/ZU	000-999
0F	Gas	Alm/Rst/Byp/Unb Zn000-999	GA/GH/GB/GU	000-999
10	Heat	Alm/Rst/Byp/Unb Zn000-999	KA/KH/KB/KU	000-999
11	24 hrs	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
12	System	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
13	Auxil.	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
14	Untyped	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
15	-------	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
16	24hrLat	Alm/Rst/Byp/Unb Zn000-999	TA/TR/TB/TU	000-999
17	Tamper	Alm/Rst/Byp/Unb Zn000-999	TA/TR/TB/TU	000-999
18	Supervi	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
19	-------	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
1A	-------	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
1B	-------	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
1C	-------	Alm/Rst/Byp/Unb Zn000-999	UA/UH/UB/UU	000-999
1D	Test	Alm/Rst/Byp/Unb Zn000-999	UX/UR/UB/UU	000-999
1E	Unsecur	Alm/Rst/Byp/Unb Zn000-999	YY/UR/UB/UU	000-999
1F	Cancel	Alm/Rst/Byp/Unb Zn000-999	OC/OC/UB/UU	000-999

Troubles Reporting Types:

Rep.Type	Printer MSG		Computer MSG	
20	Fire	Trb/T_R/Byp/Unb Zn000-999	FT/FJ/FB/FU	000-999
21	Sprinkl	Trb/T_R/Byp/Unb Zn000-999	ST/SJ/SB/SU	000-999
22	Panic	Trb/T_R/Byp/Unb Zn000-999	PT/PJ/PB/PU	000-999
23	Hold up	Trb/T_R/Byp/Unb Zn000-999	HT/HJ/HB/HU	000-999
24	Medical	Trb/T_R/Byp/Unb Zn000-999	MT/MJ/MB/MU	000-999
25	Emergen	Trb/T_R/Byp/Unb Zn000-999	QT/QJ/QB/QU	000-999
26	Burglar	Trb/T_R/Byp/Unb Zn000-999	BT/BJ/BB/BU	000-999
27	DelayHA	Trb/T_R/Byp/Unb Zn000-999	BT/BJ/BB/BU	000-999
28	Delay	Trb/T_R/Byp/Unb Zn000-999	BT/BJ/BB/BU	000-999
29	Instant	Trb/T_R/Byp/Unb Zn000-999	BT/BJ/BB/BU	000-999
2A	Interio	Trb/T_R/Byp/Unb Zn000-999	BT/BJ/BB/BU	000-999
2B	InterHA	Trb/T_R/Byp/Unb Zn000-999	BT/BJ/BB/BU	000-999
2C	Motion	Trb/T_R/Byp/Unb Zn000-999	BT/BJ/BB/BU	000-999
2D	Water	Trb/T_R/Byp/Unb Zn000-999	WT/WJ/WB/WU	000-999
2E	Freeze	Trb/T_R/Byp/Unb Zn000-999	ZT/ZJ/ZB/ZU	000-999
2F	Gas	Trb/T_R/Byp/Unb Zn000-999	GT/GJ/GB/GU	000-999
30	Heat	Trb/T_R/Byp/Unb Zn000-999	KT/KJ/KB/KU	000-999
31	24 hrs	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/UB/UU	000-999
32	System	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/UB/UU	000-999
33	Auxil.	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/UB/UU	000-999
34	Untyped	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/UB/UU	000-999
35	-------	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/UB/UU	000-999
36	24hrLat	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/TB/TU	000-999
37	Tamper	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/TB/TU	000-999
38	Supervi	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/UB/UU	000-999
39	Expans.	Trb/T_R/Byp/Unb Zn000-999	ET/ER/UB/UU	000-999
3A	AC Cut	Trb/T_R/Byp/Unb Zn000-999	AT/AR/UB/UU	000-999
3B	WirLBat	Trb/T_R/Byp/Unb Zn000-999	XT/XR/UB/UU	000-999
3C	PwSuply	Trb/T_R/Byp/Unb Zn000-999	YP/YQ/UB/UU	000-999
3D	SysLBat	Trb/T_R/Byp/Unb Zn000-999	YT/YR/UB/UU	000-999
3E	Line	Trb/T_R/Byp/Unb Zn000-999	LT/LR/UB/UU	000-999
3F	ZnFault	Trb/T_R/Byp/Unb Zn000-999	UT/UJ/UB/UU	000-999

40 TO 5F ------- RESERVED

NOTE: Interior Delay Zones will use the reporting type for Burglary at Default.

Supervisory Reporting Types:

Rep.Type	Printer MSG		Computer MSG	
60	Fire	Sup/S_R/Byp/Unb Zn000-999	FS/FJ/FB/FU	000-999
61	Sprinkl	Sup/S_R/Byp/Unb Zn000-999	SS/SJ/SB/SU	000-999
62	Panic	Sup/S_R/Byp/Unb Zn000-999	PS/PJ/PB/PU	000-999
63	Hold up	Sup/S_R/Byp/Unb Zn000-999	HS/HJ/HB/HU	000-999
64	Medical	Sup/S_R/Byp/Unb Zn000-999	MS/MJ/MB/MU	000-999
65	Emergen	Sup/S_R/Byp/Unb Zn000-999	QS/QJ/QB/QU	000-999
66	Burglar	Sup/S_R/Byp/Unb Zn000-999	BS/BJ/BB/BU	000-999
67	DelayHA	Sup/S_R/Byp/Unb Zn000-999	BS/BJ/BB/BU	000-999
68	Delay	Sup/S_R/Byp/Unb Zn000-999	BS/BJ/BB/BU	000-999
69	Instant	Sup/S_R/Byp/Unb Zn000-999	BS/BJ/BB/BU	000-999
6A	Interio	Sup/S_R/Byp/Unb Zn000-999	BS/BJ/BB/BU	000-999
6B	InterHA	Sup/S_R/Byp/Unb Zn000-999	BS/BJ/BB/BU	000-999
6C	Motion	Sup/S_R/Byp/Unb Zn000-999	BS/BJ/BB/BU	000-999
6D	Water	Sup/S_R/Byp/Unb Zn000-999	WS/WJ/WB/WU	000-999
6E	Freeze	Sup/S_R/Byp/Unb Zn000-999	ZS/ZJ/ZB/ZU	000-999
6F	Gas	Sup/S_R/Byp/Unb Zn000-999	GS/GJ/ZB/ZU	000-999
70	Heat	Sup/S_R/Byp/Unb Zn000-999	KS/KJ/KB/KU	000-999
71	24 Hrs	Sup/S_R/Byp/Unb Zn000-999	US/UJ/UB/UU	000-999
72	System	Sup/S_R/Byp/Unb Zn000-999	US/UJ/UB/UU	000-999
73	Auxil.	Sup/S_R/Byp/Unb Zn000-999	US/UJ/UB/UU	000-999
74	Untyped	Sup/S_R/Byp/Unb Zn000-999	US/UJ/UB/UU	000-999
75	-------	Sup/S_R/Byp/Unb Zn000-999	US/UJ/UB/UU	000-999

Open/Close Reporting Types:

76	Open User000-999	OP	000-999
F6	Close User000-999	CL	000-999
77	Open Group000-999	OG	000-999
F7	Close Group000-999	CG	000-999

Miscellaneous Reporting Types:

78	By	User	000-999	No transmission			
79	Control	Act/Rst	Pt000-999	RC/RO 000-999			
7A	Service	Req	Zn000-999	YX 000-999			
7B	Dealer	Id	000-999	DU 000-999			
7C	User	Msg	Zn000-999	CE 000-999			
7D	Instal	Msg	Zn000-999	DU 000-999			

7E : Specific Messages Reporting Types:

For reporting type 7E, the reporting code is specified in the message to be printed or transmitted to the Computer. The zone sent to the computer is always 000.

Rep. Code	Printer MSG	Computer MSG
01	Automat Closing	CA
02	Automat Open	OA
03	Closing Extend	CE
04	Partial Closing	CG
05	Forced Closing	CF
06	Forced arming	CW
07	Fail to Close	CI
08	Fail to Open	OI
09	Late Close	CJ
0A	Late Open	OJ
0B	Late to Close	OT
0C	Late to Open	CT
0D	Early Close	CK
0E	Early Open	OK
0F	F. Arm Perimeter	NF
10	Perimeter Arm	NL000
11	Disarm From Alm	OR
12	Access Closed	DC
13	Access Denied	DD
14	Access Granted	DG
15	Access Lockout	DK
16	Access Open	DO
17	Access Trouble	DT
18	Door Forced	DF
19	Door Station	DS
1A	Alm On Exit	UA
1B	Fire test begin	FI
1C	Fire test end	FK
1D	User cd Tamper	JA
1E	Log Threshold	JL
1F	Log Overflow	JO
20	Schedul Execute	JR
21	Schedul Change	JS
22	Time Changed	JT
23	Date Changed	JD
24	Holiday Changed	JH
25	User cd Changed	JV
26	User cd Deleted	JX
27	Local Prg Begin	LB
28	Local Prg Denied	LD
29	Local Prg Succes	LS
2A	Local Prg Fail	LU
2B	Local Prg Ended	LX
2C	Listen-In begin	LF
2D	Listen-In ended	LE
2E	Remote P.C.F	RA
2F	Remote P.begin	RB
30	Remote P.Denied	RD
31	Remote P.Success	RS
32	Remote P.Fail	RU
33	Remote Reset	RN
34	Power Up	RR
35	Data Lost	RT
36	Automatic Test	RP
37	Manual Test	RX
38	Test Start	TS
39	Test End	TE
3A	Printer Papr In	VI
3B	Printer Papr Out	VO
3C	Printer Restore	VR
3D	Printer Trouble	VT
3E	Printer Test	VX
3F	Printer On Line	VY
40	Printer Off Line	VZ
41	Extra Point	XE
42	Extra RF Point	XF
43	Sensor Reset	XI
44	Forced Point	XW
45	Watch Dog Reset	YW
46	Service Required	YX
47	Status Report	YY
48	Downlook Start	None

PC5010 & PC5015 DVACS Default Reporting Codes

A P P E N D I X B

ALARMS:

Event Description	MT / Function Byte	Real Zone #	SIA Message
Delay	08 / 88		BA0zz / BH0zz
Instant	09 / 89		BA0zz / BH0zz
Interior	0A / 8A		BA0zz / BH0zz
Interior Home-Away	0B / 8B		BA0zz / BH0zz
Delay Home-Away	07 / 87		BA0zz / BH0zz
Delayed 24-Hr Fire	00 / 80		FA0zz / FH0zz
Standard 24-Hr Fire	00 / 80		FA0zz / FH0zz
24-Hr Supervisory Links	11 / 91		UA0zz / UH0zz
24-Hr Supervisory Buzzer	11 / 91		UA0zz / UH0zz
24-Hr Burglary	06 / 86		BA0zz / BH0zz
24-Hr Hold up	03 / 83		HA0zz / HH0zz
24-Hr Gas	0F / 8F		GA0zz / GH0zz
24-Hr Heat	10 / 90		KA0zz / KH0zz
24-Hr Medical	04 / 84		MA0zz / MH0zz
24-Hr Panic	02 / 82		PA0zz / PH0zz
24-Hr Emergency	05 / 85		QA0zz / QH0zz
24-Hr Sprinkler	01 / 81		SA0zz / SH0zz
24-Hr Water	0D / 8D		WA0zz / WH0zz
24-Hr Freeze	0E / 8E		ZA0zz / ZH0zz
24-Hr Latching Tamper	16 / 96		TA0zz / TR0zz
Interior Delay	08 / 88		BA0zz / BH0zz
Duress	03	99	HA099
Keypad Fire Alm/Rst	00	99	FA099
Keypad Aux. Alm/Rst	04	99	MA099
Keypad Panic Alm/Rst	02	99	PA099
PGM2 Input Alm/Rst	14 / 94	33	UA033 / UH033

BYPASSES:

Event Description	MT / Function Byte	Real Zone #	SIA Message
Delay	48		BB0zz
Instant	49		BB0zz
Interior	4A		BB0zz
Interior Home-Away	4B		BB0zz
Delay Home-Away	47		BB0zz
Delayed 24-Hr Fire	40		FB0zz
Standard 24-Hr Fire	40		FB0zz
24-Hr Supervisory Links	51		UB0zz
24-Hr Supervisory Buzzer	51		UB0zz
24-Hr Burglary	46		BB0zz
24-Hr Hold up	43		HB0zz
24-Hr Gas	4F		GB0zz
24-Hr Heat	50		KB0zz
24-Hr Medical	44		MB0zz
24-Hr Panic	42		PB0zz
24-Hr Emergency	45		QB0zz
24-Hr Sprinkler	41		SB0zz
24-Hr Water	4D		WB0zz

Event Description	MT / Function Byte	Real Zone #	SIA Message
24-Hr Freeze	4E		ZB0zz
24-Hr Latching Tamper	56		TB0zz
Interior Delay	48		BB0zz
24-Hr Non-alarm	51		UB0zz

TAMPER ALARMS:

Event Description	MT / Function Byte	Low Zone #	SIA Message
Delay	68 / E8		BS0zz / BJ0zz
Instant	69 / E9		BS0zz / BJ0zz
Interior	6A / EA		BS0zz / BJ0zz
Interior Home-Away	6B / EB		BS0zz / BJ0zz
Delay Home-Away	67 / E7		BS0zz / BJ0zz
Delayed 24-Hr Fire	60 / E0		FS0zz / FJ0zz •
Standard 24-Hr Fire	60 / E0		FS0zz / FJ0zz •
24-Hr Supervisory Links	71 / F1		US0zz / UJ0zz •
24-Hr Supervisory Buzzer	71 / F1		US0zz / UJ0zz
24-Hr Burglary	66 / E6		BS0zz / BJ0zz
24-Hr Hold up	63 / E3		HS0zz / HJ0zz
24-Hr Gas	6F / EF		GS0zz / GJ0zz
24-Hr Heat	70 / F0		KS0zz / KJ0zz
24-Hr Medical	64 / E4		MS0zz / MJ0zz
24-Hr Panic	62 / E2		PS0zz / PJ0zz
24-Hr Emergency	65 / E5		QS0zz / QJ0zz
24-Hr Sprinkler	61 / E1		SS0zz / SJ0zz
24-Hr Water	6D / ED		WS0zz / WJ0zz
24-Hr Freeze	6E / EE		ZS0zz / ZJ0zz
24-Hr Latching Tamper	71 / F1		US0zz / UJ0zz
Interior Delay	68 / E8		BS0zz / BJ0zz
24-Hr Non-alarm	71 / F1		US0zz / UJ0zz
Keypad x Tamper/Rst	17 / 97	41 - 48	TA04x / TR04x
Zn. Exp. x Tamper/Rst	17 / 97	51 - 56	TA05x / TR05x
PC5132 Tamper/Rst	17 / 97	61	TA061 / TR061
PC5208 Tamper/Rst	17 / 97	62	TA062 / TR062
PC5204 Tamper/Rst	17 / 97	63	TA063 / TR063
PC5720 Tamper/Rst	17 / 97	64	TA064 / TR064
Alternate Comm. Tamper/Rst	17 / 97	65	TA065 / TR065 •
PC5100 Tamper/Rst	17 / 97	71	TA071 / TR071

SYSTEM TROUBLES:

Event Description	MT / Function Byte	Low Zone #	SIA Message
Delay	28 / A8		BT0zz / BJ0zz
Instant	29 / A9		BT0zz / BJ0zz
Interior	2A / AA		BT0zz / BJ0zz
Interior Home-Away	2B / AB		BT0zz / BJ0zz
Delay Home-Away	27 / A7		BT0zz / BJ0zz
Delayed 24-Hr Fire	20 / A0		FT0zz / FJ0zz
Standard 24-Hr Fire	20 / A0		FT0zz / FJ0zz

- **To be supported on future versions**

Event Description	MT / Function Byte	Low Zone #	SIA Message
24-Hr Supervisory Links	31 / B1		UT0zz / UJ0zz
24-Hr Supervisory Buzzer	31 / B1		UT0zz / UJ0zz
24-Hr Burglary	26 / A6		BT0zz / BJ0zz
24-Hr Holdup	23 / A3		HT0zz / HJ0zz
24-Hr Gas	2F / AF		GT0zz / GJ0zz
24-Hr Heat	30 / B0		KT0zz / KJ0zz
24-Hr Medical	24 / A4		MT0zz / MJ0zz
24-Hr Panic	22 / A2		PT0zz / PJ0zz
24-Hr Emergency	25 / A5		QT0zz / QJ0zz
24-Hr Sprinkler	21 / A1		ST0zz / SJ0zz
24-Hr Water	2D / AD		WT0zz / WJ0zz
24-Hr Freeze	2E / AE		ZT0zz / ZJ0zz
24-Hr Latching Tamper	36 / B6		UT0zz / UJ0zz
Interior Delay	28 / A8		BT0zz / BJ0zz
24-Hr Non-alarm	31 / B1		UT0zz / UJ0zz
Zone 01 - 32 Low Bt./Rst	3B / BB	Real Zone #	XT0zz / XR0zz
Battery Trouble Alm/Rst	3D / BD	01	YT001 / YR001
AC Failure Alm/Rst	3A / BA	01	AT001 / AR001
Bell Circuit Alm/Rst	33 / B3	99	UT099 / UJ099
Fire Trouble Alm/Rst	20 / A0	00	FT000 / FJ000
Aux. Power Alm/Rst	3C / BC	01	YP001 / YQ001
TLM Alm/Rst Links	3E / BE	00	LT000 / LR000
Phone #1 Alm/Rst	3E / BE	01	LT001 / LR001
Phone #2 Alm/Rst	3E / BE	02	LT002 / LR002
Keybus Fault Alm/Rst	39 / B9	01	ET001 / ER001
Critical Shutdown	3D	00	YT000
PC5204 AC Rst/Fail	3A / BA	63	AT063 / AR063
PC5204 Batt. Rst/Trouble	3D / BD	63	YT063 / YR063
PC5204 Circuit Rst/Trbl.	3C / BC	63	YP063 / YQ063
PC5204 Output 1 Rst/Fail	3F / BF	63	UT063 / UJ063
PC5720 ON-line/OFF-line	7E	3F / 40	VY / VZ

SUPERVISORY ALARMS:

Event Description	MT / Function Byte	Low Zone #	SIA Message
Keypad x Suprv./Rst	32 / B2	41 - 48	UT04x / UJ04x
Zn. Exp. x Suprv./Rst	32 / B2	51 - 56	UT05x / UJ05x
PC5132 Suprv./Rst	32 / B2	61	UT061 / UJ061
PC5208 Suprv./Rst	32 / B2	62	UT062 / UJ062
PC5204 Suprv./Rst	32 / B2	68	UT068 / UJ068
PC5720 Suprv./Rst	32 / B2	64	UT064 / UJ064
Alternat Comm. Suprv./Rst	32 / B2	65	UT065 / UJ065 •
PC59XX Suprv./Rst	32 / B2	66	UT066 / UJ066
ESCORT Suprv./Rst	32 / B2	67	UT067 / UJ067
PC5100 Suprv./Rst	32/B2	71	UT071 / UJ071
Dwnlk Mod. Suprv./Rst	32 / B2	72	UT072 / UJ072
Expander Module Superv./Rst	75 / F5	000	US000 / UJ000

• **To be supported on future versions**

OPEN / CLOSE REPORTS:

Event Description	MT / Function Byte	Low Zone #	SIA Message
Opening By User 01 - 42	76	User #	OP0xx
Closing By User 01 - 42	F6	User #	CL0xx
Opening By Maintenance	76	43	OP043
Opening By Keyswitch	76	44	OP044
Opening By Downloading	76	45	OP045
Closing By Maintenance	F6	43	CL043
Closing By Keyswitch	F6	44	CL044
Closing By Downloading	F6	45	CL045
Quick /Away Arming	F6	46	CL046
Automatic Closing	7E	01	CA

MISCELLANEOUS SYSTEM REPORTS:

Event Description	MT / Function Byte	Low Zone #	SIA Message
Keypad Lockout	7E	1D	JA
Remote ESCORT Access	7E	16	DO
DLS Lead In/ Lead Out	7E	2F / 31	RB / RS
System Test	7E	37	RX
Installer Lead In/Out	7E	27 / 29	LB / LS
Cold Start	7E	34	RR
Warm Start	7E	45	YW
Swinger Shutdown	3F	00	UT000
H-A Mode/Re-Activ.H-A	7E	10	NL
Opening After Alarm	7E	11	OR
Recent Closing	7E	1A	UA
Auto Arm Cancellation	7E	0B	OT
Partial Closing	7E	04	CG
Downlook Mdl Remove Trigger	7E	37	RX
Late to Close	7E	07	CI000
Delinqency Code	32	97	CD
Police Code	19	01	BV000
Event Buffer 75% Full	7E	1E	JL

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.

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.

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