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1. Introduction

The PC4400 module adds serial printer or DVAC communications capability to a MAXSYS PC4010 or PC4020 security system.

2. Specifications

- Four wire (QUAD) hook-up to Combus
- Normal current draw of 35 mA
- Tamper and Trouble reporting codes
- Low Combus supervision to Main Control Panel
- Maximum cable length: 200 feet (61 meters)

PC4400 connected to a serial printer:

- True RS-232 technology
- Protocol XON / XOFF or DTR
- Five possible baud rates: 300, 600, 1200, 2400 or 4800

NOTE: *4800 Baud only available on PC4010/PC4020 V2.1 and above.*

PC4400 connected to a DVAC network:

- Automatic programming for DVAC function bytes and reporting codes.
- Programmable response type to all calls
- Monitoring for DVAC Line fault
- Module self diagnostics

3. Installing the PC4400

3.1 Unpacking

The PC4400 package includes the following parts:

- One PC4400 circuit board
- Four plastic stand-offs

3.2 Mounting the Cabinet

When mounting a new cabinet for the PC4400, select a dry location close to either the serial printer or the F1 / F2 subsets if DVAC communication 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 PC4400 module onto the plastic stand-offs.

3.3 Wiring

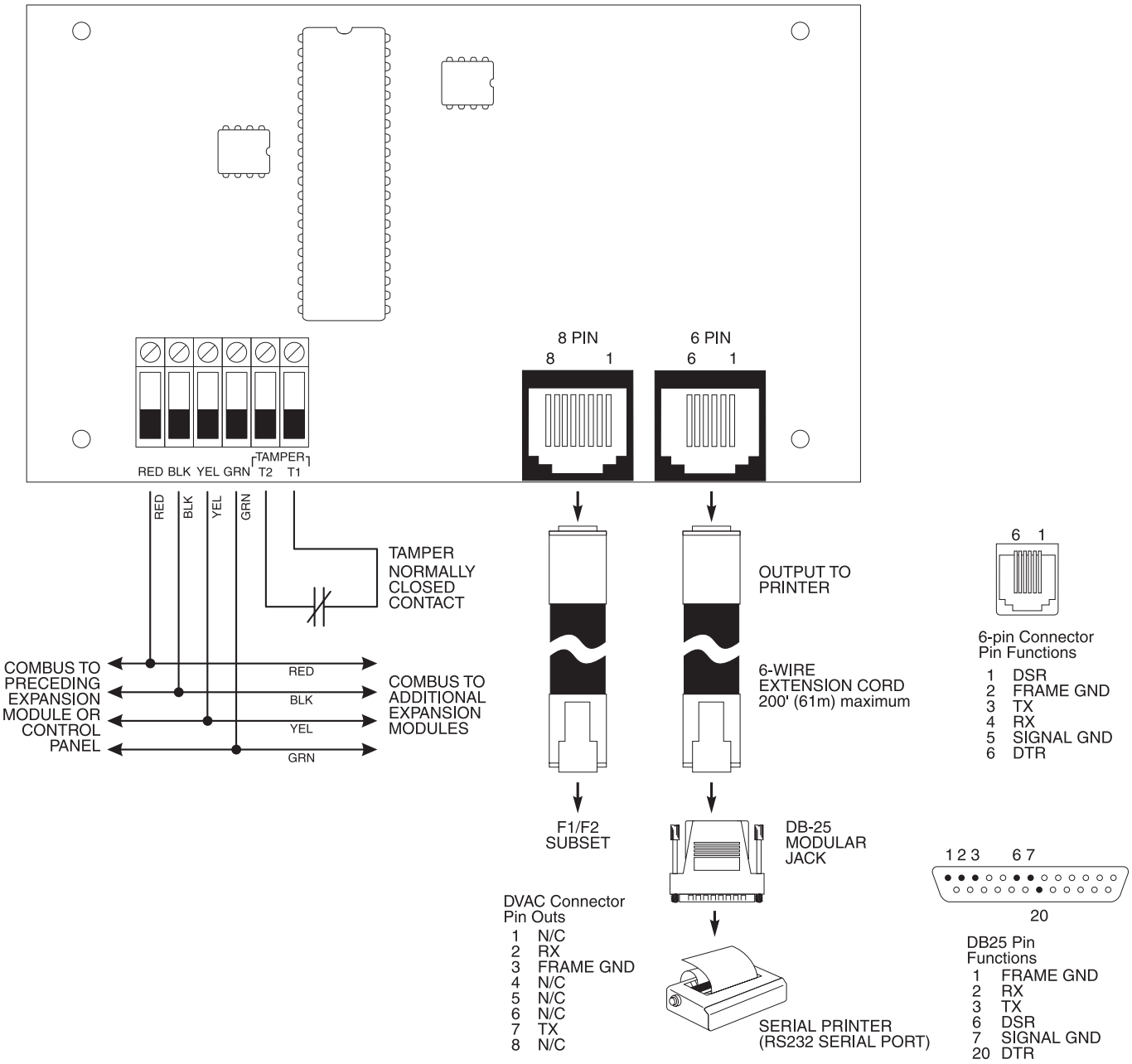
Before beginning to wire the unit, ensure that all power (AC transformer and battery) is disconnected from the control panel.

Perform the following steps to complete wiring:

1. Connect the four Combus wires to the PC4400. Connect the red, black, yellow and green Combus wires to the RED, BLK, YEL and GRN terminals, respectively.
2. Connect terminals T1 and T2 to a normally closed tamper switch. If no tamper switch is desired, connect a jumper wire between T1 and T2 terminals.

Consult the wiring diagram on page 2 for further information.

3.4 PC4400 Hookup Diagram



3.5 Applying Power

After all wiring is completed, apply power to the control panel. Connect the battery leads to the battery, then connect the AC transformer. For more information on control panel power specifications, see the control panel Installation Manual.

***NOTE**: Do not connect the power until all wiring is complete.*

4. Enrolling the Module

Once all wiring is complete, you must enroll the module:

1. Enter installer's programming by pressing [*] [8] [Installer's Code].
2. Scroll to "Module Hardware" and press the [*] key.
3. Scroll to "Enroll Module" and press the [*] key.
4. Scroll through the different modules until "PC4400" is displayed. Press the [*] key.
5. The message "Create Tamper on Desired Unit" will be displayed. To create the required tamper, secure the tamper zone on the module and then open it. The transition from secure to violated enrolls the module. After this is done, the keypad will display the module number and will confirm enrollment (e.g. "PC4400 Mod 01 Enrolled").
6. The panel will prompt "Select Toggle <> DVAC enabled N". To enable the module for DVAC communications, press [*]. The display changes to "DVAC enabled Y". To use the module with a serial printer, leave the toggle set to "DVAC enabled N".

NOTE: *To change the DVAC enabled toggle option for the module, you must remove, and then re-enroll the module.*

For more information regarding module enrollment, see the control panel Installation Manual.

5. Programming the Module

To access PC4010/PC4020 programming, enter [*][8] followed by the Installer's code. The sections you will need to program are described below. For more information regarding programming, see the control panel Installation Manual.

The PC4400 module programming sections are located in the System Area section under the PC4400 options. Once you have entered installer's programming, enter the indicated reference number (on PC4010/PC4020 v3.x panels only); OR use the [<] [>] keys to scroll through the programming options on the LCD display and press [*] to select the desired option.

The following explains each programming option relevant to the PC4400.

5.1 Baud Rate

Ref. # [000800]

This section is used to program which baud rate the PC4400 serial interface module will use to communicate with a serial printer. The baud rate is the speed at which information will be transmitted from the PC4400 module to the serial printer. There are five different baud rates available to the PC4400 module: 300, 600, 1200, 2400 and 4800 baud. If you are experiencing problems with missing characters, try lowering the baud rate.

NOTE: *4800 Baud only available on PC4010/PC4020 V2.1 and above.*

5.2 DVAC Options

Ref. # [00080100]

This section is used to program DVAC options for the PC4400 module.

NOTE: *This section is only available if the PC4400 module is enrolled as a DVAC module.*

ID Code Option

This is the ID code the PC4400 module will use for DVAC communications. Valid ID codes range from 01 to EF. The default ID code is FF. With this setting, the PC4400 will respond to ID code 01.

NOTE: *Do not plug the DVAC line into the module until the ID code has been programmed.*

All Call Select Options

This option determines how the PC4400 module will respond to all calls from the central station. The valid entries are from 00 to 04:

00 = No response on all calls.

01 = Respond to all call #1 only.

02 = Respond to all call #2 only.

03 = Respond to both all calls.

04 = Respond to all call #1 if ID code is odd or on all call #2 if ID code is even.

The default all call setting is FF. With this setting, the PC4400 will follow the all call option 04.

5.3 DVAC Identifiers

Ref. # [00080101]

This section is used to program the function byte and reporting code for the events transmitted over the DVAC. After entering this section, the installer will be prompted to enter a reporting code number. Valid entries are from 0000 to 0346.

NOTE: *System tests are not transmitted through DVACS.*

Special Function Byte (FB) Values

FF = Transmit the default FB

Special Reporting Code (RC) Values

000 = Disable transmission

254 = Transmit a zero

255 = Transmit the default RC

NOTE: *When programming a section, if the panel loses communications with the PC4400 module, the message "DVAC module not present" will be displayed. If this occurs check your wiring, then program the section again.*

The following is a list of the default DVAC reporting and identifier codes:

Rep #	Title	FB	RC	Printed Message
0000 - 007F	Zone Alarms / Restore	*	001 - 128	(See Zone Events Section)
0080 - 00FF	Zone Troubles / Restore	*	001 - 128	(See Zone Events Section)
0100 - 017F	Zone Faults / Restore	*	001 - 128	(See Zone Events Section)
0180 - 01C9	Module (1-74) Tampers / Restore	17 / 97	131 - 204	Tamper Zn#
01CA	Fire Key	00	129	Fire Zn#129
01CB	Aux. Key	04	129	Medical Zn# 0129
01CC	Panic Key	02	129	Panic Zn#129
01CD	Duress Code	03	129	Holdup Zn#129
01CE - 024D	Open / Close by users	76 / F6	001 - 128	Open / Close User#
024E	Quick Arm	F6	130	Close User#130
024F	Partial Close	7E	004	PartClos
0250	Auto Arm Abort	7E	011	Late to Close
0251	Automatic Arming	7E	001	Automat Closing
0252	Keypad Lockout	7E	029	User cd Tamper
0253	Open / Close second Master	76 / F6	131	Close User#131
0254 - 0256	For Future Use	00	—	Not Transmitted
0257	Opening after Alarm	7E	017	Disarm from alm
0258	Auto Disarm	7E	002	Automatic Open
0259 - 0260	Partition Open / Close	77 / F7	001 - 008	Open / Close Group#
0261	For Future Use	00	—	Not Transmitted
0262	System Battery Trouble / Restore	3D / BD	001	SysLBat
0263	System AC Trouble / Restore	3A / BA	001	AC Cut
0264	System Bell Trouble / Restore	32 / B2	135	System trb
0265	System Aux. Supply Trouble / Restore	3C / BC	001	PwSuply
0266	Combus Trouble / Restore	32 / B2	131	System trb
0267 - 0268	TLM Line 1 & 2 Trouble / Restore	3E / BE	001 - 002	Line
0269	FTC Restoral	00	—	Not Transmitted
026A	System Periodic Test	00	—	Not Transmitted
026B	Event Buffer %75 Full	32	132	System trb
026C	System Test	00	—	Not Transmitted
026D	LINKS Periodic Test	00	—	Not Transmitted
026E	Periodic UL Test	7A	002	Test
026F	DLS Lead In	7E	047	Remote P. Begin
0270	DLS Lead Out	7E	049	Remote P. Success
0271	Installer Lead In	7E	039	Local Prg Begin
0272	Installer Lead Out	7E	043	Local Prg Ended
0273	Automation Fault / Restore	32 / B2	133	System Trb
0274 - 0277	For Future Use	00	—	Not Transmitted
0278 - 02A7	PC4204 Battery Trouble / Restore	3D / BD	011 - 026	SysLBat
	PC4204 AC Trouble / Restore	3A / BA	011 - 026	AC Cut
	PC4204 Aux. Supply Trb / Restore	3C / BC	011 - 026	PwSuply
02A8	For Future Use	00	—	Not Transmitted
02A9	Fire Alarm 2-wire Smoke	00 / 80	130	Fire
02AA	Water Flow Alarm	01 / 81	130	Sprnklr
02AB	2-wire Smoke Trouble	20 / A0	130	Fire Trb
02AC	Water Flow Trouble	21 / A1	130	Sprnklr Trb
02AD	Ground Fault	32 / B2	130	System Trb
02AE - 02ED	Wireless Zone Low Batt. Alarm	3B / BB	151 - 214	WirLBat

The above events apply to PC40x0 v2.1x

02EE - 032D	Wireless Zone Supervisory	18 / 98	151 - 214	Supervi
032E - 0335	Partition Police (1 - 8) ◆	19 / 99	001 - 008	Burglary Verified
0336-0337	For Future Use	00	—	Not Transmitted
0338	DVAC Line Fault	3E / BE	004	Line
0339	DVAC Module Fault	32 / B2	137	System Trb
033A	DVAC Shut Down By C.S.	32 / B2	138	System Trb
033B	Bypassed Zone ■	*	001 - 128	(See Zone Events Section)
033C-0346	For Future Use	00	—	Not Transmitted

◆ Partition Police Code restoral not transmitted by DVAC module.

■ To disable this transmission, program the function byte as "00" and the reporting code as "000". Programming any other values will result in the transmission of the default settings.

If the reporting code is left as default FF, it will be the same as the zone number and the function byte for the zone events will be the corresponding zone type. A zone has seven associated events that will modify the printer message.

The following is a list of changes of DVAC reporting codes that apply to the PC40x0 v3.0 only.

Rep #	Title	FB	RC	Printed Message
1CA	Fire Key Alarm / Restores	00	129	Fire Alm / Rst Zn#129
1CB	Aux. Key Alarm / Restore	04	129	Medical Alm / Rst Zn#129
1CC	Panic Key Alarm / Resotres	02	129	Panic Alm.Rst Zn#129
24E	Quick Arm	F6	130	Not Transmitted
24F	Partial Close	7E	004	Partial Closing
278-2A7	PC4204 Battery Trouble / Restore	3D / BD	011-026	Not Transmitted
	PC4204 AC Trouble / Restore	3A / BA	011-026	Not Transmitted
	PC4204 Aux. Supply Trb / Restore	3C / BC	011-026	Not Transmitted
2EE-32D	Wireless Zone Supervisory	18 / 98	151-214	Not Transmitted
338	DVAC Line Fault	3E / BE	004	Not Transmitted
339	DVAC Module Fault	32 / B2	137	Not Transmitted
33A	DVAC Shut Down by C.S.	32 / B2	138	Not Transmitted

Zone Events

PC4020 Event	DVAC Printer MSG	PC4020 Event	DVAC Printer MSG
Zone Alarm	Alm	Zone Trouble / Tamper Restore	T_R
Zone Restore	Rst	Zone Fault	Sup
Partial Closing+ Zone Alarm	Byp	Zone Fault Restore	S_R
Zone Trouble / TamperTrb	Trb		

The following is a list of the default settings for zone transmissions:

Zone Type FB:	Alm	Rst	Byp	Trb	T_R	Sup	S_R	Printer MSG
Standard Delay	08	88	48	28	A8	68	E8	Delay
Aux. Delay	08	88	48	28	A8	68	E8	Delay
Instant	09	89	49	29	A9	69	E9	Instant
Interior	0A	8A	4A	2A	AA	6A	EA	Interior
Interior H.A	0B	8B	4B	2B	AB	6B	EB	InteriHA
Delay H.A	07	87	47	27	A7	67	E7	DelayHA
24 hr Bell *	11	91	51	31	B1	71	F1	24 hr
24 hr Bell / Buzzer	11	91	51	31	B1	71	F1	24 hr
24 hr Buzzer	11	91	51	31	B1	71	F1	24 hr
Standard Fire	00	80	40	20	A0	60	E0	Fire
Delayed Fire	00	80	40	20	A0	60	E0	Fire
Auto Ver. Fire	00	80	40	20	A0	60	E0	Fire
Momentary Arm	XX							
Maintained Arm	XX							
Latching 24 hr	16	96	56	36	B6	76	F6	24hrLat
Forced Answer	XX							
Links Supervisory	18	98	58	38	B8	78	F8	Supervi
Links Answer	XX							
Sprinkler	01	81	41	21	A1	61	E1	Sprnklr
Hold Up	03	83	43	23	A3	63	E3	Hold Up
Panic	02	82	42	22	A2	62	E2	Panic
Technical	18	98	58	38	B8	78	F8	Supervi

* The following zone types transmit as 24 hr Bell: 24 hr Gas, 24 hr Heat, 24 hr Medical, 24 hr Emergency, 24 hr Water, 24 hr Freeze.

The list below shows the new zone types that apply to the PC40x0 v3.0 only.

Zone Type FB:	Alm	Rst	Byp	Trb	T_R	Sup	S_R	Printer MSG
Interior Delay	0A	8A	4A	2A	AA	6A	EA	Interior
Waterflow	00	80	40	20	A0	60	E0	Fire
Fire Supervisory	01	81	41	21	A1	61	E1	Sprinkler

5.4 Default DVAC

Ref. # [00080102]

This command will restore the PC4400 programming back to the default values. After you enter this section, you will be prompted to confirm returning the PC4400 to its default settings by pressing the [✶] key. The default process has a duration of 10-15 seconds.

NOTE: *When exiting installer's mode, if the panel loses communication with the PC4400 module, the message "DVAC module not present" will be displayed. If this occurs, check your wiring, then enter and exit the installer's programming mode again.*

If the Periodic UL Test reporting code is removed from the panel, the DVAC Periodic UL Test transmission will not be sent.

5.5 Trouble Conditions

The control panel always watches for possible trouble conditions. If a trouble condition occurs, the keypad "Trouble" light will turn on and the keypad will beep. Press [✶][2] to display the trouble conditions.

The following trouble conditions apply to the PC4400 module. For a description of all troubles, please see your system Installation Manual. Reporting codes for these troubles can be programmed (ref. # [000403] OR scroll to **System Area**, then **Communicator**, then **Reporting Codes**).

- Printer Off-line
- PC4400 Trouble

If programmed, the panel can also send reporting codes for the following conditions:

- General System Tamper Alarm (PC4010/4020 v3.x and higher)
- General System Tamper Restore (PC4010/4020 v3.x and higher)
- General System Trouble (reported for DVAC Trouble on PC4010/4020 v3.x and higher)
- General System Trouble Restore (reported for DVAC Trouble Restore on PC4010/4020 v3.x and higher)
- PC4400 Tamper Alarm (PC4010/4020 v2.1 and lower)
- PC4400 Tamper Restore (PC4010/4020 v2.1 and lower)
- RS-232 Trouble (PC4010/4020 v2.1 and lower)
- RS-232 Trouble Restore (PC4010/4020 v2.1 and lower)
- DVAC Trouble (PC4010/4020 v2.1 and lower)
- DVAC Trouble Restore (PC4010/4020 v2.1 and lower)

Record your reporting code choices in the panel's Programming Worksheets booklet.

Baud Rate REFERENCE # [000800]

|___| 300 |___| 600 |___| 1200
|___| 2400 |___| 4800

DVAC Options REFERENCE # [00080100]

ID Code Default = FF |___|___| (Valid entries 01-FF)

All Call Select Default = FF |___|___| (Valid entries 00-04)

00 = no response to all calls

01 = response to all call #1 only

02 = response to all call #2 only

03 = response to both all calls

04 = response to all call #1 if ID code is 0 or to all call #2 if ID code is even

Default DVAC Programming REFERENCE # [00080102]

DVAC Identifiers REFERENCE # [00080101]

Zone X Alarm/Restore

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
0000	Zn 1 Alm / Rst			002B	Zn 44 Alm / Rst			0056	Zn 87 Alm / Rst		
0001	Zn 2 Alm / Rst			002C	Zn 45 Alm / Rst			0057	Zn 88 Alm / Rst		
0002	Zn 3 Alm / Rst			002D	Zn 46 Alm / Rst			0058	Zn 89 Alm / Rst		
0003	Zn 4 Alm / Rst			002E	Zn 47 Alm / Rst			0059	Zn 90 Alm / Rst		
0004	Zn 5 Alm / Rst			002F	Zn 48 Alm / Rst			005A	Zn 91 Alm / Rst		
0005	Zn 6 Alm / Rst			0030	Zn 49 Alm / Rst			005B	Zn 92 Alm / Rst		
0006	Zn 7 Alm / Rst			0031	Zn 50 Alm / Rst			005C	Zn 93 Alm / Rst		
0007	Zn 8 Alm / Rst			0032	Zn 51 Alm / Rst			005D	Zn 94 Alm / Rst		
0008	Zn 9 Alm / Rst			0033	Zn 52 Alm / Rst			005E	Zn 95 Alm / Rst		
0009	Zn 10 Alm / Rst			0034	Zn 53 Alm / Rst			005F	Zn 96 Alm / Rst		
000A	Zn 11 Alm / Rst			0035	Zn 54 Alm / Rst			0060	Zn 97 Alm / Rst		
000B	Zn 12 Alm / Rst			0036	Zn 55 Alm / Rst			0061	Zn 98 Alm / Rst		
000C	Zn 13 Alm / Rst			0037	Zn 56 Alm / Rst			0062	Zn 99 Alm / Rst		
000D	Zn 14 Alm / Rst			0038	Zn 57 Alm / Rst			0063	Zn 100Alm / Rst		
000E	Zn 15 Alm / Rst			0039	Zn 58 Alm / Rst			0064	Zn 101Alm / Rst		
000F	Zn 16 Alm / Rst			003A	Zn 59 Alm / Rst			0065	Zn 102Alm / Rst		
0010	Zn 17 Alm / Rst			003B	Zn 60 Alm / Rst			0066	Zn 103Alm / Rst		
0011	Zn 18 Alm / Rst			003C	Zn 61 Alm / Rst			0067	Zn 104Alm / Rst		
0012	Zn 19 Alm / Rst			003D	Zn 62 Alm / Rst			0068	Zn 105Alm / Rst		
0013	Zn 20 Alm / Rst			003E	Zn 63 Alm / Rst			0069	Zn 106Alm / Rst		
0014	Zn 21 Alm / Rst			003F	Zn 64 Alm / Rst			006A	Zn 107Alm / Rst		
0015	Zn 22 Alm / Rst			0040	Zn 65 Alm / Rst			006B	Zn 108Alm / Rst		
0016	Zn 23 Alm / Rst			0041	Zn 66 Alm / Rst			006C	Zn 109Alm / Rst		
0017	Zn 24 Alm / Rst			0042	Zn 67 Alm / Rst			006D	Zn 110Alm / Rst		
0018	Zn 25 Alm / Rst			0043	Zn 68 Alm / Rst			006E	Zn 111Alm / Rst		
0019	Zn 26 Alm / Rst			0044	Zn 69 Alm / Rst			006F	Zn 112Alm / Rst		
001A	Zn 27 Alm / Rst			0045	Zn 70 Alm / Rst			0070	Zn 113Alm / Rst		
001B	Zn 28 Alm / Rst			0046	Zn 71 Alm / Rst			0071	Zn 114Alm / Rst		
001C	Zn 29 Alm / Rst			0047	Zn 72 Alm / Rst			0072	Zn 115Alm / Rst		
001D	Zn 30 Alm / Rst			0048	Zn 73 Alm / Rst			0073	Zn 116Alm / Rst		
001E	Zn 31 Alm / Rst			0049	Zn 74 Alm / Rst			0074	Zn 117Alm / Rst		
001F	Zn 32 Alm / Rst			004A	Zn 75 Alm / Rst			0075	Zn 118Alm / Rst		
0020	Zn 33 Alm / Rst			004B	Zn 76 Alm / Rst			0076	Zn 119Alm / Rst		
0021	Zn 34 Alm / Rst			004C	Zn 77 Alm / Rst			0077	Zn 120Alm / Rst		
0022	Zn 35 Alm / Rst			004D	Zn 78 Alm / Rst			0078	Zn 121Alm / Rst		
0023	Zn 36 Alm / Rst			004E	Zn 79 Alm / Rst			0079	Zn 122Alm / Rst		
0024	Zn 37 Alm / Rst			004F	Zn 80 Alm / Rst			007A	Zn 123Alm / Rst		
0025	Zn 38 Alm / Rst			0050	Zn 81 Alm / Rst			007B	Zn 124Alm / Rst		
0026	Zn 39 Alm / Rst			0051	Zn 82 Alm / Rst			007C	Zn 125Alm / Rst		
0027	Zn 40 Alm / Rst			0052	Zn 83 Alm / Rst			007D	Zn 126Alm / Rst		
0028	Zn 41 Alm / Rst			0053	Zn 84 Alm / Rst			007E	Zn 127Alm / Rst		
0029	Zn 42 Alm / Rst			0054	Zn 85 Alm / Rst			007F	Zn 128Alm / Rst		
002A	Zn 43 Alm / Rst			0055	Zn 86 Alm / Rst						

DVAC Identifiers

REFERENCE #[00080101]

Zone X Trouble/Restore

Rep #		FB	RC
0080	Zn 1 Trb / Rst		
0081	Zn 2 Trb / Rst		
0082	Zn 3 Trb / Rst		
0083	Zn 4 Trb / Rst		
0084	Zn 5 Trb / Rst		
0085	Zn 6 Trb / Rst		
0086	Zn 7 Trb / Rst		
0087	Zn 8 Trb / Rst		
0088	Zn 9 Trb / Rst		
0089	Zn 10 Trb / Rst		
008A	Zn 11 Trb / Rst		
008B	Zn 12 Trb / Rst		
008C	Zn 13 Trb / Rst		
008D	Zn 14 Trb / Rst		
008E	Zn 15 Trb / Rst		
008F	Zn 16 Trb / Rst		
0090	Zn 17 Trb / Rst		
0091	Zn 18 Trb / Rst		
0092	Zn 19 Trb / Rst		
0093	Zn 20 Trb / Rst		
0094	Zn 21 Trb / Rst		
0095	Zn 22 Trb / Rst		
0096	Zn 23 Trb / Rst		
0097	Zn 24 Trb / Rst		
0098	Zn 25 Trb / Rst		
0099	Zn 26 Trb / Rst		
009A	Zn 27 Trb / Rst		
009B	Zn 28 Trb / Rst		
009C	Zn 29 Trb / Rst		
009D	Zn 30 Trb / Rst		
009E	Zn 31 Trb / Rst		
009F	Zn 32 Trb / Rst		
00A0	Zn 33 Trb / Rst		
00A1	Zn 34 Trb / Rst		
00A2	Zn 35 Trb / Rst		
00A3	Zn 36 Trb / Rst		
00A4	Zn 37 Trb / Rst		
00A5	Zn 38 Trb / Rst		
00A6	Zn 39 Trb / Rst		
00A7	Zn 40 Trb / Rst		
00A8	Zn 41 Trb / Rst		
00A9	Zn 42 Trb / Rst		
00AA	Zn 43 Trb / Rst		
00AB	Zn 44 Trb / Rst		
00AC	Zn 45 Trb / Rst		
00AD	Zn 46 Trb / Rst		
00AE	Zn 47 Trb / Rst		
00AF	Zn 48 Trb / Rst		
00B0	Zn 49 Trb / Rst		
00B1	Zn 50 Trb / Rst		
00B2	Zn 51 Trb / Rst		
00B3	Zn 52 Trb / Rst		
00B4	Zn 53 Trb / Rst		
00B5	Zn 54 Trb / Rst		
00B6	Zn 55 Trb / Rst		
00B7	Zn 56 Trb / Rst		
00B8	Zn 57 Trb / Rst		
00B9	Zn 58 Trb / Rst		
00BA	Zn 59 Trb / Rst		
00BB	Zn 60 Trb / Rst		
00BC	Zn 61 Trb / Rst		
00BD	Zn 62 Trb / Rst		
00BE	Zn 63 Trb / Rst		
00BF	Zn 64 Trb / Rst		
00C0	Zn 65 Trb / Rst		
00C1	Zn 66 Trb / Rst		
00C2	Zn 67 Trb / Rst		
00C3	Zn 68 Trb / Rst		
00C4	Zn 69 Trb / Rst		
00C5	Zn 70 Trb / Rst		
00C6	Zn 71 Trb / Rst		
00C7	Zn 72 Trb / Rst		
00C8	Zn 73 Trb / Rst		
00C9	Zn 74 Trb / Rst		
00CA	Zn 75 Trb / Rst		
00CB	Zn 76 Trb / Rst		
00CC	Zn 77 Trb / Rst		
00CD	Zn 78 Trb / Rst		
00CE	Zn 79 Trb / Rst		
00CF	Zn 80 Trb / Rst		
00D0	Zn 81 Trb / Rst		
00D1	Zn 82 Trb / Rst		
00D2	Zn 83 Trb / Rst		
00D3	Zn 84 Trb / Rst		
00D4	Zn 85 Trb / Rst		
00D5	Zn 86 Trb / Rst		
00D6	Zn 87 Trb / Rst		
00D7	Zn 88 Trb / Rst		
00D8	Zn 89 Trb / Rst		
00D9	Zn 90 Trb / Rst		
00DA	Zn 91 Trb / Rst		
00DB	Zn 92 Trb / Rst		
00DC	Zn 93 rb / Rst		
00DD	Zn 94 Trb / Rst		
00DE	Zn 95 Trb / Rst		
00DF	Zn 96 Trb / Rst		
00E0	Zn 97 Trb / Rst		
00E1	Zn 98 Trb / Rst		
00E2	Zn 99 Trb / Rst		
00E3	Zn 100Trb / Rst		
00E4	Zn 101Trb / Rst		
00E5	Zn 102Trb / Rst		
00E6	Zn 103Trb / Rst		
00E7	Zn 104Trb / Rst		
00E8	Zn 105Trb / Rst		
00E9	Zn 106Trb / Rst		
00EA	Zn 107Trb / Rst		
00EB	Zn 108Trb / Rst		
00EC	Zn 109Trb / Rst		
00ED	Zn 110Trb / Rst		
00EE	Zn 111Trb / Rst		
00EF	Zn 112Trb / Rst		
00F0	Zn 113Trb / Rst		
00F1	Zn 114Trb / Rst		
00F2	Zn 115Trb / Rst		
00F3	Zn 116Trb / Rst		
00F4	Zn 117Trb / Rst		
00F5	Zn 118Trb / Rst		
00F6	Zn 119Trb / Rst		
00F7	Zn 120Trb / Rst		
00F8	Zn 121Trb / Rst		
00F9	Zn 122Trb / Rst		
00FA	Zn 123Trb / Rst		
00FB	Zn 124Trb / Rst		
00FC	Zn 125Trb / Rst		
00FD	Zn 126Trb / Rst		
00FE	Zn 127Trb / Rst		
00FF	Zn 128Trb / Rst		

Zone X Fault/Restore

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
0100	Zn 1 Ft/Rst			0139	Zn 58 Ft/Rst			016D	Zn 110Ft/Rst		
0101	Zn 2 Ft/Rst			013A	Zn 59 Ft/Rst			016E	Zn 111Ft/Rst		
0102	Zn 3 Ft/Rst			013B	Zn 60 Ft/Rst			016F	Zn 112Ft/Rst		
0103	Zn 4 Ft/Rst			013C	Zn 61 Ft/Rst			0170	Zn 113Ft/Rst		
0104	Zn 5 Ft/Rst			013D	Zn 62 Ft/Rst			0171	Zn 114Ft/Rst		
0105	Zn 6 Ft/Rst			013E	Zn 63 Ft/Rst			0172	Zn 115Ft/Rst		
0106	Zn 7 Ft/Rst			013F	Zn 64 Ft/Rst			0173	Zn 116Ft/Rst		
0107	Zn 8 Ft/Rst			0140	Zn 65 Ft/Rst			0174	Zn 117Ft/Rst		
0108	Zn 9 Ft/Rst			0141	Zn 66 Ft/Rst			0175	Zn 118Ft/Rst		
0109	Zn 10 Ft/Rst			0142	Zn 67 Ft/Rst			0176	Zn 119Ft/Rst		
010A	Zn 11 Ft/Rst			0143	Zn 68 Ft/Rst			0177	Zn 120Ft/Rst		
010B	Zn 12 Ft/Rst			0144	Zn 69 Ft/Rst			0178	Zn 121Ft/Rst		
010C	Zn 13 Ft/Rst			0145	Zn 70 Ft/Rst			0179	Zn 122Ft/Rst		
010D	Zn 14 Ft/Rst			0146	Zn 71 Ft/Rst			017A	Zn 123Ft/Rst		
010E	Zn 15 Ft/Rst			0147	Zn 72 Ft/Rst			017B	Zn 124Ft/Rst		
010F	Zn 16 Ft/Rst			0148	Zn 73 Ft/Rst			017C	Zn 125Ft/Rst		
0110	Zn 17 Ft/Rst			0149	Zn 74 Ft/Rst			017D	Zn 126Ft/Rst		
0111	Zn 18 Ft/Rst			014A	Zn 75 Ft/Rst			0159	Zn 90 Ft/Rst		
0112	Zn 19 Ft/Rst			014B	Zn 76 Ft/Rst			015A	Zn 91 Ft/Rst		
0113	Zn 20 Ft/Rst			014C	Zn 77 Ft/Rst			015B	Zn 92 Ft/Rst		
0114	Zn 21 Ft/Rst			014D	Zn 78 Ft/Rst			015C	Zn 93 Ft/Rst		
0115	Zn 22 Ft/Rst			014E	Zn 79 Ft/Rst			015D	Zn 94 Ft/Rst		
0116	Zn 23 Ft/Rst			014F	Zn 80 Ft/Rst			015E	Zn 95 Ft/Rst		
0117	Zn 24 Ft/Rst			0150	Zn 81 Ft/Rst			015F	Zn 96 Ft/Rst		
0118	Zn 25 Ft/Rst			0151	Zn 82 Ft/Rst			0160	Zn 97 Ft/Rst		
0119	Zn 26 Ft/Rst			0152	Zn 83 Ft/Rst			0161	Zn 98 Ft/Rst		
011A	Zn 27 Ft/Rst			0153	Zn 84 Ft/Rst			0162	Zn 99 Ft/Rst		
011B	Zn 28 Ft/Rst			0154	Zn 85 Ft/Rst			0163	Zn 100Ft/Rst		
011C	Zn 29 Ft/Rst			0155	Zn 86 Ft/Rst			0164	Zn 101Ft/Rst		
011D	Zn 30 Ft/Rst			0156	Zn 87 Ft/Rst			0165	Zn 102Ft/Rst		
011E	Zn 31 Ft/Rst			0157	Zn 88 Ft/Rst			0166	Zn 103Ft/Rst		
011F	Zn 32 Ft/Rst			0158	Zn 89 Ft/Rst			0167	Zn 104Ft/Rst		
0120	Zn 33 Ft/Rst			0154	Zn 85 Ft/Rst			0168	Zn 105Ft/Rst		
0121	Zn 34 Ft/Rst			0155	Zn 86 Ft/Rst			0169	Zn 116Ft/Rst		
0122	Zn 35 Ft/Rst			0156	Zn 87 Ft/Rst			016A	Zn 107Ft/Rst		
0123	Zn 36 Ft/Rst			0157	Zn 88 Ft/Rst			016B	Zn 108Ft/Rst		
0124	Zn 37 Ft/Rst			0158	Zn 89 Ft/Rst			016C	Zn 109Ft/Rst		
0125	Zn 38 Ft/Rst			0159	Zn 90 Ft/Rst			016D	Zn 110Ft/Rst		
0126	Zn 39 Ft/Rst			015A	Zn 91 Ft/Rst			016E	Zn 111Ft/Rst		
0127	Zn 40 Ft/Rst			015B	Zn 92 Ft/Rst			016F	Zn 112Ft/Rst		
0128	Zn 41 Ft/Rst			015C	Zn 93 Ft/Rst			0170	Zn 113Ft/Rst		
0129	Zn 42 Ft/Rst			015D	Zn 94 Ft/Rst			0171	Zn 114Ft/Rst		
012A	Zn 43 Ft/Rst			015E	Zn 95 Ft/Rst			0172	Zn 115Ft/Rst		
012B	Zn 44 Ft/Rst			015F	Zn 96 Ft/Rst			0173	Zn 116Ft/Rst		
012C	Zn 45 Ft/Rst			0160	Zn 97 Ft/Rst			0174	Zn 117Ft/Rst		
012D	Zn 46 Ft/Rst			0161	Zn 98 Ft/Rst			0175	Zn 118Ft/Rst		
012E	Zn 47 Ft/Rst			0162	Zn 99 Ft/Rst			0176	Zn 119Ft/Rst		
012F	Zn 48 Ft/Rst			0163	Zn 100Ft/Rst			0177	Zn 120Ft/Rst		
0130	Zn 49 Ft/Rst			0164	Zn 101Ft/Rst			0178	Zn 121Ft/Rst		
0131	Zn 50 Ft/Rst			0165	Zn 102Ft/Rst			0179	Zn 122Ft/Rst		
0132	Zn 51 Ft/Rst			0166	Zn 103Ft/Rst			017A	Zn 123Ft/Rst		
0133	Zn 52 Ft/Rst			0167	Zn 104Ft/Rst			017B	Zn 124Ft/Rst		
0134	Zn 53 Ft/Rst			0168	Zn 105Ft/Rst			017C	Zn 125Ft/Rst		
0135	Zn 54 Ft/Rst			0169	Zn 116Ft/Rst			017D	Zn 126Ft/Rst		
0136	Zn 55 Ft/Rst			016A	Zn 107Ft/Rst			017E	Zn 127Ft/Rst		
0137	Zn 56 Ft/Rst			016B	Zn 108Ft/Rst			017F	Zn 128Ft/Rst		
0138	Zn 57 Ft/Rst			016C	Zn 109Ft/Rst			0180-0187	For Future Use		

Module Tamper/Restore

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
0188	LCD4500Md1			0193	LCD4500Md12			019E	PC41XXMd6		
0189	LCD4500Md2			0194	LCD4500Md13			019F	PC41XXMd7		
018A	LCD4500Md3			0195	LCD4500Md14			01A0	PC41XXMd8		
018B	LCD4500Md4			0196	LCD4500Md15			01A1	PC41XXMd9		
018C	LCD4500Md5			0197	LCD4500Md16			01A2	PC41XXMd10		
018D	LCD4500Md6			0198	PC4400Md			01A3	PC41XXMd11		
018E	LCD4500Md7			0199	PC41XXMd1			01A4	PC41XXMd12		
018F	LCD4500Md8			019A	PC41XXMd2			01A5	PC41XXMd13		
0190	LCD4500Md9			019B	PC41XXMd3			01A6	PC41XXMd14		
0191	LCD4500Md10			019C	PC41XXMd4			01A7-01A8	For Future Use		
0192	LCD4500Md11			019D	PC41XXMd5						
01A9	PC4216Md1			01B2	PC4204Md1			01BB	PC4204Md10		
01AA	PC4216Md2			01B3	PC4204Md2			01BC	PC4204Md11		
01AB	PC4216Md3			01B4	PC4204Md3			01BD	PC4204Md12		
01AC	PC4216Md4			01B5	PC4204Md4			01BE	PC4204Md13		
01AD	PC4216Md5			01B6	PC4204Md5			01BF	PC4204Md14		
01AE	PC4216Md6			01B7	PC4204Md6			01C0	PC4204Md15		
01AF	PC4216Md7			01B8	PC4204Md7			01C1	PC4204Md16		
01B0	PC4216Md8			01B9	PC4204Md8			01C2-01C9	For Future Use		
01B1	PC4216Md9			01BA	PC4204Md9						

Priority Alarms

Rep #		FB	RC
01CA	Fire Key Alm		
01CB	Aux. Key Alm		
01CC	Panic Key Alm		
01CD	Duress Alarm		

Openings and Closings by User

Rep #	FB	RC	Rep #	FB	RC	Rep #	FB	RC
01CE O/C User 001			01F9 O/C User 044			0224 O/C User 087		
01CF O/C User 002			01FA O/C User 045			0225 O/C User 088		
01D0 O/C User 003			01FB O/C User 046			0226 O/C User 089		
01D1 O/C User 004			01FC O/C User 047			0227 O/C User 090		
01D2 O/C User 005			01FD O/C User 048			0228 O/C User 091		
01D3 O/C User 006			01FE O/C User 049			0229 O/C User 092		
01D4 O/C User 007			01FF O/C User 050			022A O/C User 093		
01D5 O/C User 008			0200 O/C User 051			022B O/C User 094		
01D6 O/C User 009			0201 O/C User 052			022C O/C User 095		
01D7 O/C User 010			0202 O/C User 053			022D O/C User 096		
01D8 O/C User 011			0203 O/C User 054			022E O/C User 097		
01D9 O/C User 012			0204 O/C User 055			022F O/C User 098		
01DA O/C User 013			0205 O/C User 056			0230 O/C User 099		
01DB O/C User 014			0206 O/C User 057			0231 O/C User 100		
01DC O/C User 015			0207 O/C User 058			0232 O/C User 101		
01DD O/C User 016			0208 O/C User 059			0233 O/C User 102		
01DE O/C User 017			0209 O/C User 060			0234 O/C User 103		
01DF O/C User 018			020A O/C User 061			0235 O/C User 104		
01E0 O/C User 019			020B O/C User 062			0236 O/C User 105		
01E1 O/C User 020			020C O/C User 063			0237 O/C User 106		
01E2 O/C User 021			020D O/C User 064			0238 O/C User 107		
01E3 O/C User 022			020E O/C User 065			0239 O/C User 108		
01E4 O/C User 023			020F O/C User 066			023A O/C User 109		
01E5 O/C User 024			0210 O/C User 067			023B O/C User 110		
01E6 O/C User 025			0211 O/C User 068			023C O/C User 111		
01E7 O/C User 026			0212 O/C User 069			023D O/C User 112		
01E8 O/C User 027			0213 O/C User 070			023E O/C User 113		
01E9 O/C User 028			0214 O/C User 071			023F O/C User 114		
01EA O/C User 029			0215 O/C User 072			0240 O/C User 115		
01EB O/C User 030			0216 O/C User 073			0241 O/C User 116		
01EC O/C User 031			0217 O/C User 074			0242 O/C User 117		
01ED O/C User 032			0218 O/C User 075			0243 O/C User 118		
01EE O/C User 033			0219 O/C User 076			0244 O/C User 119		
01EF O/C User 034			021A O/C User 077			0245 O/C User 120		
01F0 O/C User 035			021B O/C User 078			0246 O/C User 121		
01F1 O/C User 036			021C O/C User 079			0247 O/C User 122		
01F2 O/C User 037			021D O/C User 080			0248 O/C User 123		
01F3 O/C User 038			021E O/C User 081			0249 O/C User 124		
01F4 O/C User 039			021F O/C User 082			024A O/C User 125		
01F5 O/C User 040			0220 O/C User 083			024B O/C User 126		
01F6 O/C User 041			0221 O/C User 084			024C O/C User 127		
01F7 O/C User 042			0222 O/C User 085			024D O/C User 128		
01F8 O/C User 043			0223 O/C User 086					

Miscellaneous Openings and Closings

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
024E	Quick Arm			0251	Auto Arm			0254-0256	For future use		
024F	Partial Closing			0252	Kypd Lockout			0257	Open after alm		
0250	Auto Arm Abort			0253	O/C 2nd Mast.			0258	Auto disarm		

Partition Openings and Closings

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
0259	Partition 1O/C			025C	Partition 4O/C			025F	Partition 7O/C		
025A	Partition 2O/C			025D	Partition 5O/C			0260	Partition 8O/C		
025B	Partition 3O/C			025E	Partition 6O/C			0261	For future use		

System Maintenance

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
0262	Sys batt			026F	DLS lead in			026A	Sys per. test		
0263	Sys AC			0270	DLS lead out			026B	Ev. Buf. 75% fl		
0264	Sys bell			0271	Installer lead in			026C	Sys test		
0265	Sys AUX sup			0272	Inst. lead out			026D	LINKS per. test		
0266	COMBUS Trb			0273	Automation Flt			026E	Per. UL test		
0267	TLM line1			0262	Sys batt			026F	DLS lead in		
0268	TLM line2			0263	Sys AC			0270	DLS lead out		
0269	FTC Rst			0264	Sys bell			0271	Installer lead in		
026A	Sys per. test			0265	Sys AUX sup			0272	Inst. lead out		
026B	Ev. Buf. 75% fl			0266	COMBUS Trb			0273	Automation Flt		
026C	Sys test			0267	TLM line1			0274-0277	For future use		
026D	LINKS per. test			0268	TLM line2						
026E	Per. UL test			0269	FTC Rst						

PC4204 Troubles

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
0278	Batt TrbMd1			0289	AUX SupMd6			029A	AC TrbMd12		
0279	AC TrbMd1			028A	Batt TrbMd7			029B	AUX SupMd12		
027A	AUX SupMd1			028B	AC TrbMd7			029C	Batt TrbMd13		
027B	Batt TrbMd2			028C	AUX SupMd7			029D	AC TrbMd13		
027C	AC TrbMd2			028D	Batt TrbMd8			029E	AUX SupMd13		
027D	AUX SupMd2			028E	AC TrbMd8			029F	Batt TrbMd14		
027E	Batt TrbMd3			028F	AUX SupMd8			02A0	AC TrbMd14		
027F	AC TrbMd3			0290	Batt TrbMd9			02A1	AUX SupMd14		
0280	AUX SupMd3			0291	AC TrbMd9			02A2	Batt TrbMd15		
0281	Batt TrbMd4			0292	AUX SupMd9			02A3	AC TrbMd15		
0282	AC TrbMd4			0293	Batt TrbMd10			02A4	AUX SupMd15		
0283	AUX SupMd4			0294	AC TrbMd10			02A5	Batt TrbMd16		
0284	Batt TrbMd5			0295	AUX SupMd10			02A6	AC TrbMd16		
0285	AC TrbMd5			0296	Batt TrbMd11			02A7	AUX SupMd16		
0286	AUX SupMd5			0297	AC TrbMd11			02A8	For future use		
0287	Batt TrbMd6			0298	AUX SupMd11						
0288	AC TrbMd6			0299	Batt TrbMd12						

Fire Module

Rep #		FB	RC	Rep #		FB	RC				
02A9	2-wire smk alm			02AB	2-wire smk rst			02AD	Ground fault		
02AA	Water flow alm			02AC	Water flow trb						

Wireless – Low Battery

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
02AE	Zn 01 low batt			02C4	Zn 23 low batt			02DA	Zn 45 low batt		
02AF	Zn 02 low batt			02C5	Zn 24 low batt			02DB	Zn 46 low batt		
02B0	Zn 03 low batt			02C6	Zn 25 low batt			02DC	Zn 47 low batt		
02B1	Zn 04 low batt			02C7	Zn 26 low batt			02DD	Zn 48 low batt		
02B2	Zn 05 low batt			02C8	Zn 27 low batt			02DE	Zn 49 low batt		
02B3	Zn 06 low batt			02C9	Zn 28 low batt			02DF	Zn 50 low batt		
02B4	Zn 07 low batt			02CA	Zn 29 low batt			02E0	Zn 51 low batt		
02B5	Zn 08 low batt			02CB	Zn 30 low batt			02E1	Zn 52 low batt		
02B6	Zn 09 low batt			02CC	Zn 31 low batt			02E2	Zn 53 low batt		
02B7	Zn 10 low batt			02CD	Zn 32 low batt			02E3	Zn 54 low batt		
02B8	Zn 11 low batt			02CE	Zn 33 low batt			02E4	Zn 55 low batt		
02B9	Zn 12 low batt			02CF	Zn 34 low batt			02E5	Zn 56 low batt		
02BA	Zn 13 low batt			02D0	Zn 35 low batt			02E6	Zn 57 low batt		
02BB	Zn 14 low batt			02D1	Zn 36 low batt			02E7	Zn 58 low batt		
02BC	Zn 15 low batt			02D2	Zn 37 low batt			02E8	Zn 59 low batt		
02BD	Zn 16 low batt			02D3	Zn 38 low batt			02E9	Zn 60 low batt		
02BE	Zn 17 low batt			02D4	Zn 39 low batt			02EA	Zn 61 low batt		
02BF	Zn 18 low batt			02D5	Zn 40 low batt			02EB	Zn 62 low batt		
02C0	Zn 19 low batt			02D6	Zn 41 low batt			02EC	Zn 63 low batt		
02C1	Zn 20 low batt			02D7	Zn 42 low batt			02ED	Zn 64 low batt		
02C2	Zn 21 low batt			02D8	Zn 43 low batt						
02C3	Zn 22 low batt			02D9	Zn 44 low batt						

Wireless – Low Battery

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
02EE	Zn 01 superv.			0304	Zn 23 superv.			031A	Zn 45 superv.		
02EF	Zn 02 superv.			0305	Zn 24 superv.			031B	Zn 46 superv.		
02F0	Zn 03 superv.			0306	Zn 25 superv.			031C	Zn 47 superv.		
02F1	Zn 04 superv.			0307	Zn 26 superv.			031D	Zn 48 superv.		
02F2	Zn 05 superv.			0308	Zn 27 superv.			031E	Zn 49 superv.		
02F3	Zn 06 superv.			0309	Zn 28 superv.			031F	Zn 50 superv.		
02F4	Zn 07 superv.			030A	Zn 29 superv.			0320	Zn 51 superv.		
02F5	Zn 08 superv.			030B	Zn 30 superv.			0321	Zn 52 superv.		
02F6	Zn 09 superv.			030C	Zn 31 superv.			0322	Zn 53 superv.		
02F7	Zn 10 superv.			030D	Zn 32 superv.			0323	Zn 54 superv.		
02F8	Zn 11 superv.			030E	Zn 33 superv.			0324	Zn 55 superv.		
02F9	Zn 12 superv.			030F	Zn 34 superv.			0325	Zn 56 superv.		
02FA	Zn 13 superv.			0310	Zn 35 superv.			0326	Zn 57 superv.		
02FF	Zn 14 superv.			0311	Zn 36 superv.			0327	Zn 58 superv.		
02FC	Zn 15 superv.			0312	Zn 37 superv.			0328	Zn 59 superv.		
02FD	Zn 16 superv.			0313	Zn 38 superv.			0329	Zn 60 superv.		
02FE	Zn 17 superv.			0314	Zn 39 superv.			032A	Zn 61 superv.		
02FF	Zn 18 superv.			0315	Zn 40 superv.			032B	Zn 62 superv.		
0300	Zn 19 superv.			0316	Zn 41 superv.			032C	Zn 63 superv.		
0301	Zn 20 superv.			0317	Zn 42 superv.			032D	Zn 64 superv.		
0302	Zn 21 superv.			0318	Zn 43 superv.						
0303	Zn 22 superv.			0319	Zn 44 superv.						

Police Code (PC)

Rep #		FB	RC	Rep #		FB	RC	Rep #		FB	RC
032E	Partition 1 PC			0331	Partition 4 PC			0334	Partition 7 PC		
032F	Partition 2 PC			0332	Partition 5 PC			0335	Partition 8 PC		
0330	Partition 3 PC			0333	Partition 6 PC			0336-337	For future use		

DVAC Module

0338	Line fault			033A	Shutdown by CS		
0339	Module fault			033B	Bypassed zns		

DVAC Identifiers

Function Bytes

For alarm reports, bit number 7 of the function byte determines the status of the each printed event.

Alarm Function Bytes

In the following list, there are two entries for each event in the Function Byte column. The first number corresponds to an alarm; the second corresponds to the restoral. Each event will thus be printed in one of two ways. For example:

06 Burglar Alm ZnXXX BA XXX This event is an alarm.

86 Burglar Rst ZnXXX BH XXX This event is a restore.

Function Byte	Printer Message	Computer Message	Function Byte	Printer Message	Computer Message
00 / 80	Fire*	FA / FH 000-999	11 / 91	24 hrs*	UA / UH 000-999
01 / 81	Sprnklr*	SA / SH 000-999	12 / 92	System*	UA / UH 000-999
02 / 82	Panic*	PA / PH 000-999	13 / 93	Auxil.*	UA / UH 000-999
03 / 83	Hold up*	HA / HH 000-999	14 / 94	Untyped*	UA / UH 000-999
04 / 84	Medical*	MA / MH 000-999	15 / 95	-------*	UA / UH 000-999
05 / 85	Emergen*	QA / QH 000-999	16 / 96	24hrLat*	TA / TR 000-999
06 / 86	Burglar*	BA / BH 000-999	17 / 97	Tamper*	TA / TR 000-999
07 / 87	DelayHA*	BA / BH 000-999	18 / 98	Supervi *	UA / UH 000-999
08 / 88	Delay*	BA / BH 000-999	19	BrgVerf*	BV 000-999
09 / 89	Instant*	BA / BH 000-999	1A / 9A	-------*	UA / UH 000-999
0A / 8A	Interio*	BA / BH 000-999	1B / 9B	-------*	UA / UH 000-999
0B / 8B	InterHA*	BA / BH 000-999	1C / 9C	-------*	UA / UH 000-999
0C / 8C	Motion*	BA / BH 000-999	1D / 9D	Test*	UX / UR 000-999
0D / 8D	Water*	WA / WH 000-999	1E / 9E	Unsecur *	YY / UR 000-999
0E / 8E	Freeze*	ZA / ZH 000-999	1F / 9F	Cancel*	OC / OC 000-999
0F / 8F	Gas*	GA / GH 000-999	*The zone number of each alarm and restoral will also be printed in the form of "Alm / Rst Zn000-999".		
10 / 90	Heat*	KA / KH 000-999			

Trouble Function Bytes

In the following list, there are two entries for each event in the Function Byte column. The first number corresponds to a trouble; the second corresponds to the trouble restoral. Each event will thus be printed in one of two ways. For example:

26 Burglar Trb Zn001 BT 001 This event is a trouble.

A6 Burglar T_R Zn001 BJ 001 This event is a trouble restoral.

Function Byte	Printer Message	Computer Message	Function Byte	Printer Message	Computer Message
20 / A0	Fire*	FT / FJ 000-999	32 / B2	System*	UT / UJ 000-999
21 / A1	Sprinkl*	ST / SJ 000-999	33 / B3	Auxil.*	UT / UJ 000-999
22 / A2	Panic*	PT / PJ 000-999	34 / B4	Untyped*	UT / UJ 000-999
23 / A3	Hold up*	HT / HJ 000-999	35 / B5	-------*	UT / UJ 000-999
24 / A4	Medical*	MT / MJ 000-999	36 / B6	24hrLat*	UT / UJ 000-999
25 / A5	Emergen*	QT / QJ 000-999	37 / B7	Tamper*	UT / UJ 000-999
26 / A6	Burglar*	BT / BJ 000-999	38 / B8	Supervi*	UT / UJ 000-999
27 / A7	DelayHA*	BT / BJ 000-999	39 / B9	Expans.*	ET / ER 000-999
28 / A8	Delay*	BT / BJ 000-999	3A / BA	AC Cut*	AT / AR 000-999
29 / A9	Instant*	BT / BJ 000-999	3B / BB	WirLBat*	XT / XR 000-999
2A / AA	Interio*	BT / BJ 000-999	3C / BC	PwSuply*	YP / YQ 000-999
2B / AB	InterHA*	BT / BJ 000-999	3D / BD	SysLBat*	YT / YR 000-999
2C / AC	Motion*	BT / BJ 000-999	3E / BE	Line*	LT / LR 000-999
2D / AD	Water*	WT / WJ 000-999	3F / BF	ZnFault*	UT / UJ 000-999
2E / AE	Freeze*	ZT / ZJ 000-999	**The zone number of each trouble and trouble restoral will also be printed in the form of "Trb/T_R Zn000-999".*		
2F / AF	Gas*	GT / GJ 000-999			
30 / B0	Heat*	KT / KJ 000-999			
31 / B1	24 hrs*	UT / UJ 000-999			

Bypass Function Bytes

In the following list, there are two entries for each event in the Function Byte column. The first number corresponds to the bypassing of a zone; the second corresponds to the unbypassing. Each event will thus be printed in one of two ways.

For example:

46	Burglar	Byp ZnXXX	BB XXX	This event is a bypass.
C6	Burglar	Unb ZnXXX	BU XXX	This event is an unbypass.

Function Byte	Printer Message	Computer Message	Function Byte	Printer Message	Computer Message
40 / C0	Fire*	FB / FU 000-999	51 / D1	24 Hrs*	UB / UU 000-999
41 / C1	Sprnklr *	SB / SU 000-999	52 / D2	System*	UB / UU 000-999
42 / C2	Panic*	PB / PU 000-999	53 / D3	Auxil.*	UB / UU 000-999
43 / C3	Hold up*	HB / HU 000-999	54 / D4	Untyped*	UB / UU 000-999
44 / C4	Medical*	MB / MU 000-999	55 / D5	-------*	UB / UU 000-999
45 / C5	Emergen*	QB / QU 000-999	56 / D6	24hrLat*	TB / TU 000-999
46 / C6	Burglar*	BB / BU 000-999	57 / D7	Tamper*	TB / TU 000-999
47 / C7	DelayHA*	BB / BU 000-999	58 / D8	Supervi *	UB / UU 000-999
48 / C8	Delay*	BB / BU 000-999	59 / D9	Group*	UB / UU 000-999
49 / C9	Instant*	BB / BU 000-999	5A / DA	-------*	UB / UU 000-999
4A / CA	Interio*	BB / BU 000-999	5B / DB	-------*	UB / UU 000-999
4B / CB	InterHA*	BB / BU 000-999	5C / DC	-------*	UB / UU 000-999
4C / CC	Motion*	BB / BU 000-999	5D / DD	-------*	UB / UU 000-999
4D / CD	Water*	WB / WU 000-999	5E / DE	-------*	UB / UU 000-999
4E / CE	Freeze*	ZB / ZU 000-999	5F / DF	-------*	UB / UU 000-999
4F / CF	Gas*	GB / GU 000-999	*The zone number of each alarm and restoral will also be printed in the form of “Byp / Unb Zn000-999”.		
50 / D0	Heat*	KB / KU 000-999			

Supervisory Function Bytes

In the following list, there are two entries for each event in the Function Byte column. The first number corresponds a supervisory; the second corresponds to a supervisory restoral. Each event will thus be printed in one of two ways.

For example:

66	Burglar	Sup Zn001	BS 001	This event is a supervisory.
E6	Burglar	S_R Zn001	BJ 001	This event is an supervisory restore.

Function Byte	Printer Message	Computer Message	Function Byte	Printer Message	Computer Message
60 / E0	Fire*	FS / FJ 000-999	6C / EC	Motion*	BS / BJ 000-999
61 / E1	Sprinkl*	SS / SJ 000-999	6D / ED	Water*	WS / WJ 000-999
62 / E2	Panic*	PS / PJ 000-999	6E / EE	Freeze*	ZS / ZJ 000-999
63 / E3	Hold up*	HS / HJ 000-999	6F / EF	Gas*	GS / GJ 000-999
64 / E4	Medical*	MS / MJ 000-999	70 / F0	Heat*	KS / KJ 000-999
65 / E5	Emergen*	QS / QJ 000-999	71 / F1	24 Hrs *	US / UJ 000-999
66 / E6	Burglar*	BS / BJ 000-999	72 / F2	System*	US / UJ 000-999
67 / E7	DelayHA*	BS / BJ 000-999	73 / F3	Auxil.*	US / UJ 000-999
68 / E8	Delay*	BS / BJ 000-999	74 / F4	Untyped*	US / UJ 000-999
69 / E9	Instant*	BS / BJ 000-999	75 / F5	-------*	US / UJ 000-999
6A / EA	Interio*	BS / BJ 000-999	*The zone number of each alarm and restoral will also be printed in the form of “Sup / S_R Zn000-999”.		
6B / EB	InterHA*	BS / BJ 000-999			

Opening and Closing Function Bytes

In the following list, there are two entries for each event in the Function Byte column. The first number corresponds an opening; the second corresponds to a closing. Each event will thus be printed in one of two ways. For example:

76	Open User XXX	OP XXX	This event is a opening.
F6	Close User XXX	CL XXX	This event is an closing.

Function Byte	Printer Message	Computer Message
76 / F6	Open / Close User000-999	OP / CL 000-999
77 / F7	Open / Close Group000-999	OG / CG 000-999

Miscellaneous Function Bytes

Function Byte	Printer Message	Computer Message
78 / F8	By User 000-999	No transmission
79 / F9	Control Act / Rst Pt000-999	RC / RO 000-999
7A / FA	Service Req / Req Zn000-999	YX / YX 000-999
7B / FB	Dealer Id / Id 000-999	DU / DU 000-999
7C / FC	User Msg / Msg Zn000-999	CE / CE 000-999
7D / FD	Instal Msg / Msg Zn000-999	DU / DU 000-999

Reserved function bytes : 7F/FF

7E/FE : Specific Message Function Byte

Since there is no zone or user number which needs to be programmed for the messages attributed to function byte 7E / FE, the zone number refers to the printed message transmitted to the computer. The zone number sent to the computer for each event is always 000.

Zn#	Printer MSG	Computer MSG	Zn#	Printer MSG	Computer MSG	Zn#	Printer MSG	Computer MSG
001	Automat Closing	CA	025	Door Station	DS	049	Remote P.Success	RS
002	Automat Open	OA	026	Alm On Exit	UA	050	Remote P.Fail	RU
003	Closing Extend	CE	027	Fire test begin	FI	051	Remote Reset	RN
004	Partial Closing	CG	028	Fire test end	FK	052	Power Up	RR
005	Forced Closing	CF	029	User cd Tamper	JA	053	Data Lost	RT
006	Forced arming	CW	030	Log Threshold	JL	054	Automatic Test	RP
007	Fail to Close	CI	031	Log Overflow	JO	055	Manual Test	RX
008	Fail to Open	OI	032	Schedul Execute	JR	056	Test Start	TS
009	Late Close	CJ	033	Schedul Change	JS	057	Test End	TE
010	Late Open	OJ	034	Time Changed	JT	058	Printer Papr In	VI
011	Late to Close	OT	035	Date Changed	JD	059	Printer Papr Out	VO
012	Late to Open	CT	036	Holiday Changed	JH	060	Printer Restore	VR
013	Early Close	CK	037	User cd Changed	JV	061	Printer Trouble	VT
014	Early Open	OK	038	User cd Deleted	JX	062	Printer Test	VX
015	F. Arm Perimeter	NF	039	Local Prg Begin	LB	063	Printer On Line	VY
016	Perimeter Arm	NL	040	Local Prg Denied	LD	064	Printer Off Line	VZ
017	Disarm From Alm	OR	041	Local Prg Succes	LS	065	Extra Point	XE
018	Access Closed	DC	042	Local Prg Fail	LU	066	Extra RF Point	XF
019	Access Denied	DD	043	Local Prg Ended	LX	067	Sensor Reset	XI
020	Access Granted	DG	044	Listen-In begin	LF	068	Forced Point	XW
021	Access Lockout	DK	045	Listen-In ended	LE	069	Watch Dog Reset	YW
022	Access Open	DO	046	Remote P.C.F	RA	070	Service Required	YX
023	Access Trouble	DT	047	Remote P.begin	RB	071	Status Report	YY
024	Door Forced	DF	048	Remote P.Denied	RD	072	Downlook Start	*None*