SENTINEL Receiver & Decoder PCI Card PIMAGUARD Configuration Application



Installation and Operating Guide



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INTRODUCTION

PimaGuard is PIMA's configuration application for its Sentinel receiver. The Sentinel receiver solution combines both 4 PSTN lines with 2 radio channels per device; up to 4 devices can be mounted in one PC.

The application can be used as a receiver and as a repeater; the PimaGuard can handle all communication requirements for both functions.

PimaGuard is a sophisticated and multiple-function application that includes the following programmable variables:

- · Channel formats configurations;
- · Central Monitoring Station format modification;
- · Logs management;
- · Sophisticated programmable Repeater;
- Advanced debug mode and failure mechanism;
- Sophisticated event filters;

The Sentinel contains radio & telephone receiver. The receiver and the smart Repeater differ only in the PimaGuard settings.

Main Features

- Expandability: the PimaGuard is an expandable product, allowing customers to start with a single PSTN line or Radio channel and purchase more as business grows. A PC can have up to 4 Sentinel cards, enabling up to 16 PSTN lines and 8 Radio channels;
- Each Sentinel card is driven by PIMA's proprietary technology, that enables upgrading and expanding the number of inputs without any hardware changes;
- · Supports multiple formats for each channel: PAF, CID, SIA, KP, DESK, ELL and more;
- Automatic testing of the card and the input channel. Failures and status are reported to the Central Monitoring Station management application;
- Up to 4 Sentinels;
- Each PSTN line supports up to 4 different ACKs ans 8 formats per ACK;
- Eight communication channels with switching option upon failure;
- Sophisticated debugging mode for failure diagnostics;
- Password protection;
- Time flexible buffer;
- Optional Caller-ID (where supported);
- High Radio signal sensitivity;
- Built-in scope utility for easy tuning of Radio amplifier;

Benefits

- With PimaGuard technology, each card can be expanded to 4 telephone lines and 2 radio-receivers;
- · Live monitor of the last 1024 events;
- Bi-directional channel (Repeater to CMS) saves more than 90% of transmission air-time occupancy;

Smart Repeater

The smart repeater utilizes bi-directional communication with the Central Monitoring Station, for sending events efficiently. The repeater requires no external software for its operation. It operates in dual-mode as a multi-channel repeater, i.e., it can receive the event in one channel (e.g. Radio) and transmit it via a various media (e.g. telephone) and vice versa. The most common application is Radio-to-Radio repeater with a telephone or the network as a backup.

The CMS acknowledges each event sent by the Repeater. Messages are re-sent if an '500 events or event timeout limit, until 'Acknowledge' is received from the CMS. This sequence guarantees the following:

- A. Transmission time is extremely fast as each transmission is consisted of one frame (contrary to transmission of 10 frames by customer's transmitter), thus saving air time. When confirmation is not received, the Repeater continues to transmit the event until it is acknowledged. While retransmitting an event, new incoming events are stored in the buffer.
- B. Continuous bi-directional monitoring identifies failures in communication and events to the monitoring station.

The Product Package

The Sentinel package contains the following:

- · The Sentinel Card;
- The PimaGuard[™] driver installation CD;
- A radio connection cable (P/N 3411055);
- 4 RJ-11 standard telephone cords (P/N 3411046);
- Cross link 9-pin D-type serial communication cable (P/N 3411041);
- · This guide;

Hardware requirements

- CPU: Intel Pentium, 233MHz & up processor;
- RS-232 port (optional);
- LAN connection 10/100/1000Mb (optional);
- · Hard Drive 1.5 GB;
- · Memory card 64Mb & up;
- 4 available USB ports (optional);
- Standard PCI (33 MHz);
- Availabe I/O physical addresses 0C00-FCFF for the sentinel support;
- CD-DVD drive
- UPS (Uninterrupted Power Supply) recommended;

Bios configuration

• On AC Power - Turn On (recommended);

Software requirements

• Operating System: Windows XP Pro[©], XP Home[©], Win Server 2008[©], Vista[©], Win7[©] - All versions;

SENTINEL INSTALLATION

Installation Package

The installation package includes the following files:

- Sentinel.sys: a driver for Windows[©] XP;
- 2. **SIS.exe**: the application file;
- 3. *.bs1: configuration file;
- 4. Sentinel7.sys: Windows[©] 7 & Vista driver;
- 5. CARD.S19: Sentinel's firmware file;
- 6. English.Ing: interface language file. The application's default language is English;
- 7. *.inf: Sentinel's hardware installation file;
- 8. English.evnm: Structured protocols conversion tables for monitoring & logging;

Installing a Sentinel card

1. Turn off the PC and **unplug it from mains**. Any attempt to install the card otherwise would damage it and the PC

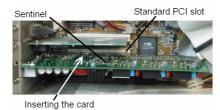


Figure 1. Installing a Sentinel card

- 2. Open the PC case and insert the Sentinel card to the first available standard PCI slot¹
- 3. If you install more than one Sentinel, insert the others too (max. 4 cards).
- 4. Close the PC case, plug it and turn it on.

Installing several Sentinels

When you install several Sentinels (up to 4), the procedure is as follows:

- 1. Insert the cards to the slots;
- 2. Reboot the PC;
- Install the cards drivers via Windows 'Device Manager' or 'New Hardware Wizard'. This also automatically installs the PimaGuard files under 'C\Program Files\Common Files\SIS;
- 4. Reboot the PC;

Connecting the cards inputs

The Sentinel has 4 PSTN and 2 radio inputs. The next figure shows how these inputs are connected.

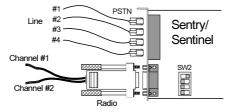


Figure 2. Connecting the radio channels and telephone lines

- Connect the supplied telephone cords to the Sentinel in the order the PimaGuard will later be programmed;
- 2. Connect the supplied radio cable (P/N 3411055): connect one cable to transceiver #1 and the other to transceiver #2. The wiring should be done according to the following table:

^{1.} See, for example: http://video.about.com/pcsupport/PCIcard-mov.htm

Color	Description	Transceiver
Red	PTT	-
White	Sentinel DATA Out	Audio input
Green	Sentinel DATA In	Audio output
Black	Volume	Volume control
Yellow	Shield (GND)	Ground

3. Adjust the transceiver's output, as described on page 27



The availabe I/O physical addresses for the sentinel support are: 0C00-FCFF

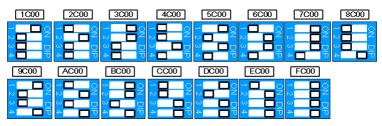
Setting the card's address

The Sentinel's address is set by a 4-pin dip-switch, located on the PCB.



Figure 3. The card's address setting dip-switch

The address options are as follows:





Two Sentinels cannot have the same address

Adjusting the transceiver's output

When connecting a transceiver to the Sentinel, the following should be adjusted:

- The receiver's output signal should not exceed 2 Vp-p (Peak-to-peak Voltage). When the 2 Vp-p limit cannot be met, contact your vendor for support;
- 2. The receiver's squelch control should be turned off, i.e., reception signal is not interrupted by the squelch filter;

PIMAGUARD INSTALLATION

Under Windows XP©

After installing the Sentinel, when Windows boots up, the 'Add New Hardware Wizard' should start running automatically. If not, go to 'Start' -> 'Control Panel' and double-click the 'Add Hardware' icon, or open the 'Device Manager' ('Start' -> 'Control Panel' -> 'System' -> 'Device Manager'), right-click the device with the yellow question mark and click 'Update Driver...'.



Figure 4. The Sentinel as appears in the Device Manager before installing its driver

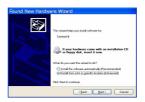
1. In the wizard's first screen, click 'Next'; Windows will now search for the newly installed Sentine hardware.



2. In the next screen, after the Sentinel was identified by Windows, select 'No, not this time' and click 'Next'.



3. Select 'Install from a list or specific location' and click 'Next'.



4. Select 'Don't search. I will choose the driver to install' and click 'Next'.



5. Press 'Have Disk'. If the PimaGuard was previously intalled on the PC, disregard the driver installation history as seen in the image.



6. Browse to the folder where the PimaGuard installation files are located. Click the folder and click 'OK'.



7. The Sentinel will now appear on the window.



8. Press 'Next'. The PimaGuard driver will now be installed.

9. In the wizard's final screen; press 'Finish'.



10. When the installation is finished, you should see the installed Sentinel in the 'Device Driver' window, under 'CMS.'



11. Reboot the PC. The PimaGuard runs automatically after the reboot.



- When installing several Sentinels, you might need to reboot the PC between each installation.
- If the newly installed sentinel doesn't appear in the 'Device Manager' window, contact PIMA support team.

Under Windows 7[©]

To install the Sentinel under Windows 7^{\odot} follow the next steps. See the note at the end of this section:

1. On the desktop, right-click the 'My Computer' icon and select 'Manage'. In the window that pops up, click 'Device Manager' on the left pane.



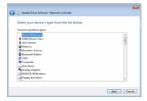
2. Right-click the first 'Network Controller' and select 'Update Driver Software...'.



3. In the next window click the option "Browse for driver software on your computer".



4. In the "Select your device's type from the list below" window click the option "show all devices" and click 'Next'.



5. In the device list window, click 'Have Disk'. If the PimaGuard was previously intalled on the PC, disregard the driver installation history.



6. Browse to the PimaGuard folder and select it.



7. The Sentinel will now appear in the Update driver software window. Click Next.



8. If a warning pops up, click 'Yes'.



9. In the Windows Security window click 'Install this driver software anyway'.'



10. Wait for the installation to end with the message "Windows has successfully updated your driver software" and click 'Close'.



When Working under Windows 7, the UAC (User Account Control) notifications feature needs to be disabled. To do that:

1. Go to 'Start' -> Control Panel', change the 'View by' (on the upper right) to large or small icons, and click the User Accounts icon



2. Click 'Change User Account Control Settings' and place the bar down at "Never Notify" (see the next image).





3. Press OK, then Yes in the warning massage, and exit the 'Control Panel' menu.

GENERAL DESCRIPTION AND INTERFACE

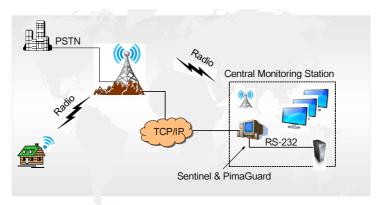


Figure 5. The Sentinel & PimaGuard operating scheme

The PimaGuard includes a Kernel mode driver for the Sentinel and a GUI (Graphic User Interface) for configuring it. The application's window is divided into 2 panes:

- The left pane displays the root menus: General, Sentinels, Communication, Logs, Repeaters and Tools;
- The right pane displays a list of parameters and their values.

Double-clicking an item on the menu tree and on some parameters on the right pane (e.g. Format) opens a separate configuration window. After setting the parameters in the window and closing it, the list on the right pane displays the configured information. For example, in the next screen capture, the settings of Filter 1, Format 1 and some other parameters are displayed.

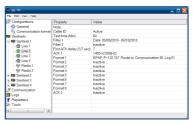


Figure 6. PimaGuard's main window



- Three stars (***) next to application's logo indicates that data was changed but not saved yet.
- If a Sentinel/COM/Log etc. fails to load, the application's icon in the menu is grayed.

The File menu

The 'File' menu contains these PimaGuard commands:

Save	Save current configuration
Discard Changes	Undo modifications
Export	Export the configurations to a CSV or text file
Upgrade/Restore	Load upgrade file or restore your configurations from a file
Reset Cards Slots	Run this command when you install several Sentinel cards, after each card's installation and PC reboot

The Edit menu

The next commands are available at most levels of the menu and for all parameters and text fields.

Copy/Paste/Clear

Formats, filters, ACKs and other parameters can be copied by using the Copy command on the main menu. Pasting the copied information onto parameter of the same sort, copies its information. For example, in the next screen capture, 'Format 2' was set by copy-pasting 'Format 1'.

Format 1 PAF P=0.5 Date: 11/10/2010 - 05/10/2010 Route to: Comm 06 Log 01
Format 2 PAF P=0.5 Date: 11/10/2010 - 05/10/2010 Route to: Comm 06 Log 01

Copy/paste operations are also available by standard Windows shortcuts: Ctrl+C & Ctrl+V.

To clear information, click the parameter/row from the parameter list of the root menu, and select 'Clear' from the application menu, or press the Delete key.

GENERAL

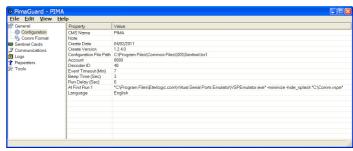


Figure 7. The PimaGuard interface

Configuration

- 1. On the left pane, double-click 'General', than double-click 'Configuration', or double-click any parameter on the right pane.
- 2. In the Configuration window that pops up, fill in the next CMS details:.



Figure 8. The configuration window

- A. <u>CMS name</u>: the Cental Monitoring Station or the customer's name.
- B. Note (here and everywhere else): free text for the customer's use.
- C. <u>Password</u>: protect the installation package and any future change by a password. If left blank, the PimaGuard will not be protected against fraud. The password can have up to 9 characters and is case sensitive.
- D. <u>Create date</u>: the date the PimaGuard was created. Read only field. Create version: the PimaGuard version file ('bs1') version. Read only field. if the PimaGuard is upgraded, the 'bs1' file and the PimaGuard might have different versions.
- E. <u>Configuration file path</u>: the location of the 'bs1' configuration file (automatic).
- F. Account: a fault account (8000 in most cases). This PimaGuard self account/fault event is sent to the Central Monitoring Station via all the modules, each in its own protocol. If you don't set any event, the PimaGuard will not report any fault.
 - The event transmission and reset are indicated by Windows 'Exclamation' tone, set in the Sounds Control Panel. See the Faults appendix on page 28.
- G. Event timeout: Set a time in minutes for the PimaGuard to keep events in a buffer, if transmission is delayed (unless incoming events fill up the buffer before).
- H. Run delay: set a timeout in seconds for the PimaGuard application to wait after reboot and before running.
- I. <u>At first run</u>: set commands to run when the PimaGuard application starts running. To insert a command: enter the command and press the Insert key; to erase a command: choose it and press Delete.



The 'Run delay' timeout, if set, precedes the execution of the 'At first run' file.

- J. <u>Language</u>: select the interface language.
- K. <u>Beep time</u>: set the error beep length in seconds. The beep can be temporarily stopped, by resetting the error or clicking anyway in the application window. If the error is not resetted, the beep will be sound hourly, even if it was temporarily stopped.

Communication formats

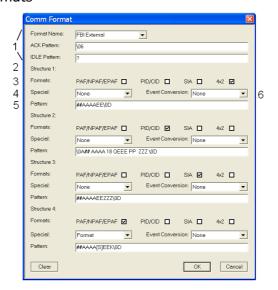


Figure 9. Communication formats window. The selected format is FBI External

The Communication formats window is made of the next parts:

- The upper part is where the Format and its ACK and Idle patterns are selected. The format drop-list
 contains structured formats (see "Structured Communication Formats" on page 29 for the full format
 list) and is also used for defining new formats. All the fields of the structured formats are part of the
 format ans cannot be modified. If you do change anything, the PimaGuard will not save it. The only way
 to change a parameter is to create a new format;
- 'Structures' is where the incoming and outgoing Serial format trransmissions are set. There are four optional structures.
- 3. 'Formats' reffer to the incoming transmissions, i.e., in which format the incoming transmission is expected. There are four options: PAF/NPAF/EPAF, SIA, CID (Contact ID), PID and 4X2, which stands for all other formats: DTMF, pulses, etc..



The same incoming format can only be used once for each struchture

- 4. Special: this feature enables you to utilize built-in conditions in the protocol's pattern, by using the character [S]. See Appendix D, page 29.
- 5. The Pattern refers to the format group that is selected in the Structure. If the selected formats are CID and SIA, the pattern should fit to information data received from both
- 6. The 'Event Conversion' enables you to convert events from within the transmission itself, from one format to another, to match the pattern. For example CID event 130 (Burglary) can be converted to 'Hex 2 digits' and be sent as '82'. The full event conversion table is in Appendix E, page 36.

A legend of the characters of the Formats page is located on page 29.

Creating a new format

There are two ways to create a new format:

- · Create a modified format, by changing the name of one of the structured formats in the list;
- · Create a new format from scratch;

Create a new format based on existing one

To create a new format based on existing (structured) one, you only need to change the name of a format from the formats list. After saving the new format, it will be added on the end of the list. For example: to create a new format based on the SURGARD format, add "_sample" to the format name; a new format called 'SURGARD_sample' will be created. Now you can change any parameter: in the next example (see next screen capture), we've changed the 0 to 1 and \40 to \43 in refer to the Idle (special conditions and legends do not apply to ACK and Idle patterns).

The output account can be changed to Hexa. In this example, we switched 'A' with 'L' in 'Structure 1', i.e., only incoming accounts from 4x2 input transmissions will be converted or calculated as Hexa.

Groups of input transmissions can also be distinguished, by creating a new pattern for each group. In this example, PAF group & pattern were added to 'Structure 4'. In such a case, the PAF structure must be deselected from the first group; see the previous warning.

In 'Structure 4', the 'Special' is "Format"; this means that [S] in the incoming format group (PAF in this case) will be replaced by information received from the control panel's Siren and Key status, in PAF.

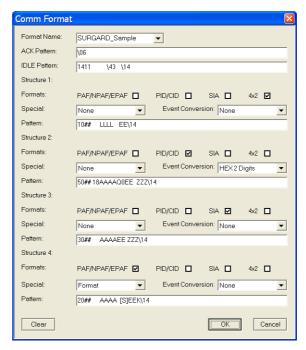


Figure 10. Formats page with a new, manually set format

Another issue which is demonstrated here, is the 'Event Conversion', which can be implemented in any of the structure's patterns differently. In this example, CID/PID events will be converted to Hex 2-Digit format (see the conversion table on page 40). If, for example, event #130 (Burglary) is received, it will be converted to 82. The first 'E' in the ContactID event is to be replaced by '0'; this is optional only: 'E' or any other information can also be used.



After pressing OK, the format will be saved and appear at the end of the list; it will be available in the communication channels formats list.

PROGRAMMING

Sentinel 1

Sentinel configuration

1. IO Range: enter the physical address of the first card. For example: 1C00, 3C00, 5C00 (see page 8).



- The Sentinel's faults are reported by a 2 byte number. See "Fault Codes" on page 28
- 2. Click OK; to set other Sentinels, repeat the process from step #6, with each Sentinel.

Line 1 configuration

3. Double-click 'Line 1'. The Line configuration window pops up;

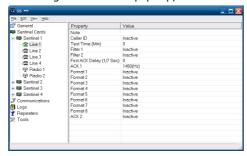


Figure 11. Line 1 configuration windows

- 4. Caller ID: is used mainly for repeating calls that contain no valid information, because of either a fault or a deliberate communication interference. When this happens, the PimaGuard sends a fault report in 4X2 format with the code '7D' and the caller ID. The caller ID number is written to the log, even if the line protocol does not support this feature.
- 5. Test time: set the line testing interval. The Sentinel will perform 3 tests during every interval, and only if the 3 fail, a report will be generated. See Appendix C, page 28.
- Click OK. The pop-up window is shut down and the 'Line' settings are displayed in the PimaGuard window.
- 7. On the right pane, double-click 'ACK 1' and select the first opening ACK from the drop-down list.
- 8. Set a delay (in 1/7 of a second; 7=one second) if needed and Click OK.

Formats



Figure 12. Line formats window

- 9. Double-click 'Format 1'.
- 10. Format: select the format from the drop-down list. Press 'Convert' if you need the PIMA format style in order to program a PIMA alarm system.
- 11. System: enter the system number as a Hexadecimal number. See Appendix F, page 60.
- 12. Flag: do not change the data in this field unless instructed otherwise by PIMA. See "Programming Line & Radio Formats" on page 60
- 13. Close ACK: change the default ACK only if the alarm system uses a non-default closing ACK itself.



We recommend to consult our support team, before changing the default ACK, Flag or System.

14. PIMA style: this part is only to help you configuring the protocol, if you don't know the format and the system number: enter the protocol as it programmed in the PIMA alarm system (in the Control Panel's 'Communication' menu, under 'CMS 1 Options') and press 'Convert'.



PIMA style is a format conversion tool only! The PimaGuard doesn't save its information.

15. Add to Account: enter a number that will be added to the account number. For example, if you enter 1500 and your account number is 7850, the updated account number will be 9350. This feature is for distinguishing between accounts from different stations/regions that have the same number.



The limit number is either 65535, or the outgoing format limit.

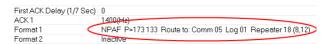
- 16. Route to: set where events in the selected protocol will be routed to. There are many possible routing combinations for the logs, the communication channels and the repaeters. The numbers bellow 'Route to' refers to the logs, the communication channels and the reapeaters. The options are:
 - Log: the events will be logged in the respective log file. Up to 4 log files can be set. (see "Logs" on page 21);
 - <u>Comm</u>: the events will be routed to the respective communication channel (up to 8). The selected channel must be in 'Software' mode;
 - <u>Repeater</u>: the events will be routed to the respective logical repeater and use the selected format, out of the 32 optional repeater's formats (the 'Format' field cannot be left blank). The selected repeater must be in 'Output' mode (see "Structured Communication Formats" on page 29)

Examples for the Format as displayed on the main window

If the format follows Pima control panel programming pattern, the letter 'P' will be displayed with its value. Else, the structured format will be displayed as followed: S=System, F=Flag, E=Extra.

Other information will follow: Filters, Add to Account, Structure (PLS and DTMF only), 'Route to' table. After saving the format it appears as a "short line view" under its channel.

Example 1



- · NPAF the format;
- P=137 133 Pima programming style (low\high byte);
- Route to: Comm 05 Log 01 Repeater 18 (8,12) all incoming events will be routed to communications channels #1 and #3 (0x05 h=101 bin), to log #1 and to repeaters #4 and #5 (0x18 h=11000 bin). The numbers 8,12 are the formats positions, as programmed in the repeaters. Repeater #4 format is #8 and repeater #5 format is #12.

Example 2

PLS P=1 193 4(3)x2 + 3x1 CS Route to: Log 01

- PLS the format;
- P=1 193 Pima programming style (low\high byte);
- 4(3)x2 + 3x1 CS added structure

Example 3

SIA S=00 F=00 Account 100-500, 0-0, List 0 Add to Account 1000 Route to: Comm C2 Log 01

- SIA S=00 F=00 the format. In this case SIA is programmed under a non-SIA open ACK. If PIMA control
 panel programming cannot be assigned, the System & Flag data will be displayed.
- Account 100-500 an account number filter;
- Add to Account 1000 a number arithmetically added to any account number, e.g. 1563=>2563;
- Route to: Comm C2 the transmissions will be routed to communication channels #2, #7 and #8 (0xC2 h= 11000010 bin);
- Log 01 the log number (#1);

Example 4

DESK S=32 F=00 E=00 Route to: Repeater 02 (5)

• DESK - the format; 'E' serves as extra indicator;

Example 5

"SIA S=00 F=A8 Route to: Comm 01 (69) Log 01

• Decoder ID - (69) short view follows communication channels, if these exist.

Radio 1

 Double-click 'Radio 1' under 'Sentinel 1'. In the 'Radio' popup window, select 'Active' from the drop-down list and click 'OK'.

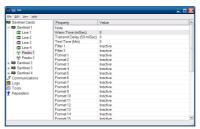


Figure 13. Radio 1 configuration window

- 2. Test time: set a period of time in minutes, that if no valid report has been received during it, a fault report is sent to the Central Monitoring Station. See Appendix C, page 28.
- 3. Transmit delay: 1-255; a delay added to the default delay (in 50 ms skips), to enable the desynchronization of two synchronized output repeaters.
- 4. Warm time: set a period of time in milliseconds, to enable the full charging of the transmitter, after pushing PTT before transmitting a report. Empty=180 ms min: 80 max: 640.
- 5. Press OK.

Radio format

The Radio format window is the same as the Line format one, except the PIMA style and Extra parts. For the Filters, see page 25.



Figure 14. Radio formats window



- A. The options must be set consecutively, without skipping a format.
- B. When selecting the DESK format, no other format can be set on the same radio channel or the same line ACK.

COMMUNICATION

Set the PimaGuard optional communication channels. For each, set the type, the mode and the relating parameters and you also set where to route the transmissions.

- 1. On the left pane, double-click 'Communications'.
- 2. Double-click 'Comm 1'.



Figure 15. Comm. window

Type

- 3. In the 'Comm' popup window, select the (communication) Type. There are 3 options: SERIAL, TCP & UDP:
 - a. Serial: select this type when the PimaGuard communicates via one of the COM ports;
 - b. TCP: select this type when the PimaGuard communicates via Ethernet in TCP protocol;



Every TCP/UDP channel requires a separate port.

 UDP: select this protocol when the PimaGuard is communicating via the Ethernet, using the UDP protocol;



If the IP/URL field is left blank, the PimaGuard will accept transmissions from any IP that is directed to the PimaGuard's Port number.

Mode

- 4. Select the 'Mode' of the PimaGuard: Software, Repeater or External:
 - Software: the PimaGuard sends the events to the Central Monitoring Station management application, e.g. Andromeda, Computure, etc;
 - b. Repeater: the channel serves as a repeater; note that the same communication channel cannot be used for outgoing & incomming repeater together;
 - c. External: the PimaGuard recieves events from other decoders. When selecting this option, the "route to" table is enabled in the Communication window. Double-click it and select the routing configuration. When routed to a repeater, it is required to fill all the optional formats routing numbers.



Do not leave any format blank or zero.

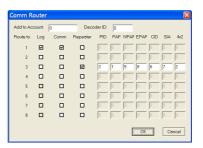


Figure 16. Comm. roter

In this example, all the events are routed to 'Log 1', 'Comm. 1' and 'Repeater 3'. If the input event source is CID, the event will be sent by the 6th format number, configured in repeater #3. In these cases, it is recommended not to use a repeater in "DOS Compatible" mode (it supports all format types). See the repeaters on page page 25.

On error switch to

Select the communication channel to which the output transmissions will be switched, when an error occurs in the Software type. This serves as a backup channel. Programming a loop is recommended. If the 'On error switch to' is inactive and the channel is not available, the PimaGuard tries to resend the report within the timeout.

For the switching to work, an ACK must be set.

If a report is routed to two channels on the same loop, it will be sent to both channels. If one channel is faulty, a duplicate event will be created.

Examples

Example 1: Loop, 2 channels

- Comm. 1: Software mode, ACK & Idle are set, "On error switch to" is set to Comm. 2.
- Comm. 2: Software mode, ACK is set, "On error switch to" is set to Comm. 1.

If Comm. 1 channel fails, events will be transmitted via Comm.n 2 channel. If Comm. 1 is restored by Idle's ACK, the events will be transmitted back to Comm. 1. If both channels fail, the events will be transmitted between the two in a loop, until timeout is over or transmission successes.

Example 2: Error loop

- Comm. 1: Software mode, ACK & Idle are set, "On error switch to" is set to Comm. 2.
- Comm. 2: Software mode, ACK & Idle are set, "On error switch to" is set to Comm. 3.
- Comm. 3: Repeater/External mode.

If Communication 1 fails, events will be sent via Communication 2 until timeout is over. If Communication 1 is restored by Idle's ACK, the events in Communication 2 will not be looped back to it; all the new events will be sent via Communication 1, but Communication 2 will still try to send the former events from the buffer until timeout is over.

Format

5. Select the format for the current configuration. The structured formats are listed in Appendix D, page 29; Constrains and limitations are listed in Appendix B, page 27.



'Software' and 'External' modes have the same formats for input and output, and the same ACK & Idle patterns.

ACK timeout

- Set the ACK waiting timeout (in seconds). Each format has a default ACK and by setting the timeout the ACK is enabled.
- · In 'Software' mode, the PimaGuard requires the ACK from the Central Monitoring Station, in the protocol;
- · In 'External' mode, the Mcard generates the ACK if a value is set;
- Three consecutive transmissions timeouts with no ACK, triggers a fault (see Appendix C, page 28);
- When working in TCP type, ACK is not required, unless the Central Monitoring Station requires it. If no ACK is set, TCP errors will be reported as communication errors;
- When working in UDP type, ACK is required for generating a communication fault
- In External mode, if a filter is set and an ACK is requierd, the ACK is sent anyway, even if the event is
 not within the filter's range (except for time filters). This is to enable the external decoder to keep
 running in anyway.

Idle timeout

7. Set the Idle timeout in seconds. To view ACK & Idle patterns, see "Communication formats" on page 14.



- In 'Software' mode, Idle is reported if no transmission is received within the timeout.
- In 'External' mode, Idle is expected within the interval, if no transmission is received.

Idle ACK

8. If set to 'Active' in 'Software' mode, an ACK from the Central Monitoring Station is expected for the Idle. If set to 'Active' in 'External' mode, the PimaGuard will send an ACK for any received Idle frame.

Port number

9. There are two options: if the mode is Software or Repeater Out, the port is a destination port; if the mode is External or Repeater In, the port is a listening one.

IP/URL

10. Set the destination IP or URL. If the communication channel is set as Repeater Out or Software, the destination IP/URL must be set. If the channel is set as Repeater In or External, these does not have to be set. After setting the IP or URL, transmissions will be recived only from the specified destination address..



If the IP/URL field is left blank, the PimaGuard will accept transmissions from any IP with the specified Port number.

Add to account

11. See page 17.

Route to

- 12. See page 17.
- 13. Click 'OK'.

Filters

For the External mode only, see page 25.

The formats are listed in Appendix D, page 29.

Logs

Set up the PimaGuard log files.

- 1. On the left pane, double-click ".
- 2. Double-click 'Log 1'.



- 3. Browse to the location where you want to save the log file #1.
- 4. Enter a filename for the log and click 'Open'.
- 5. In the Log window, click 'OK'.



Three failures to write to the log is reported as a fault. See Appendix C, page 28.

Log file size

The Log file size is about 200Mb, depending on the PC available disk size. When the Log file is full, a new Log file is created and the first file is saved with the suffix 'old'. When the second file becomes full, the first one is erased. For the filters list, see page 25.

Tools

Monitor

The Monitor feature has 2 modes: General & debug. To switch between the two, double-click the Mode line in the right pane. The Debug mode can be operated only with a Sentinel card installed.

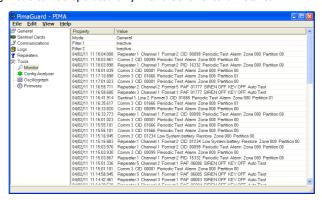
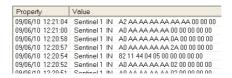


Figure 17. The monitor window

General

In this mode, the last 1024 events are displayed (in the right pane). The events are updated online.

Debug



In the debug mode, the incoming & outgoing data are displayed both as raw Hexa frames and as in the General mode after some processing, to be able to compare the transmissions before and after processing.

Filters in this mode, are immediately activated when set, but are not saved when exiting the applicatione. See the full Filter list on page 25.I



The debugging log file size is set as in other logs. (see Logs on the previous section).

Config Analyzer

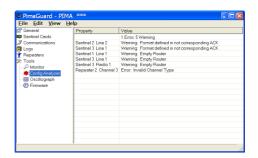


Figure 18. Config analyzer window

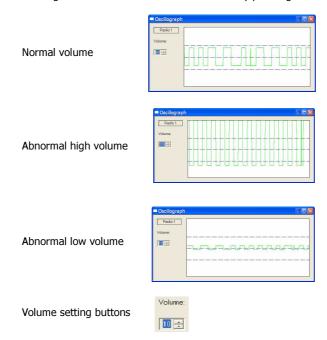
Config analyzer checks for programming errors on-the-fly. This is only a diagnostic tool and will not prevent the user from saving it as is, including the errors. The analyzer's icon has 3 colors:

- Gray "No Errors or Warnings".
- Yellow "Warning": some features will not work properly. Potential loss of data.
- Red "Error": some features will not work at all or not work properly. Potential loss of data.

Oscillograph

This mode enables you to set the volume level for each Radio amplifier. When you enter the mode, the PimaGuard stops from receiving events. A warning message precedes this action.

Switching between Radio1 and Radio 2 is done by pressing the radios button.



FIRMWARE

In most cases the Firmware does not have to be cahnged. If you are instructed by PIMA to install a new version, follow the next steps.

Firmware upgrade

- 1. Double click 'Tools' on the left pane, than click 'Firmware'.
- 2. On the right pane, double click 'Sentinel X'.

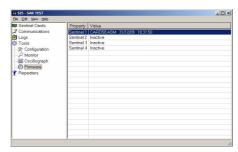
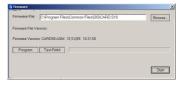


Figure 19. SAR test window

3. When upgrading the Firmware, the PimaGuard stops from receiving events. A warning message will be displayed. Press OK.



4. The Sentinel Firmware version is displayed in this window.



- 5. Press browse and locate the upgrade file. Press Open.
- 6. Press Program, than Start. If the upgrade version is the same as the PimaGuard's one, a warning message will be displayed.
- 7. Insert the (VFP) jumper on the Sentinel PCB. The PimaGuard will now erase the current Firmware and burn the upgraded one.

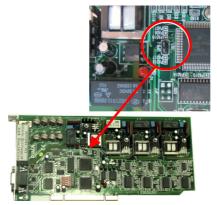


Figure 20. The Sentinel's jumper

8. After programming is complete, remove the jumper. The PimaGuard will now verify the installation. When the process is over the message Programming PASS will be displayed. If failed, a matching message will be displayed.

Test RAM

Press this button to test the Sentinel's RAM after programming it. To start the test, Press 'Start'.

REPEATERS



Programming the repeaters is enabled only by PIMA. This chapter is for your information only

- When programming the repeaters, make sure not to couse a collision between the system's PAF, NPAF & EPAF protocols and the physical channels, or an internal loop would be created.
- When a repeater (Out or In) is programmed via the radio channels, it must be enabled with the PAF format.



 When a repeater (Out or In) is programmed via the telephone, it must be enabled with the PAF format and first ACK of 1400.

The next two notes reffer to version 1.2.4.0 and up:

- Only 'DOS compatible' repeater supports telephone channels.
- Programming a "Dos Compatible" Repeater Out together with a non "Dos Compatible" Repeater In, in the same Pima Guard, can cause loss of data.
- 1. Double-click 'Repeters'.
- 2. Click 'Repeater 1'.

Repeater 1

Input

1. When the repeater is a repeater-in, it can receive transmissions from up to 4 channels simultaneously, each with different stations, protocols and 'keep alive' account and interval.

Channel 1

2. Double-click 'Channel 1'. The channel pop-up window is displayed.



- 3. From the 'Channel' drop-down list, selelct the repeater's channel: Sentinel 1-4, or Comm 1-8.
- 4. When selecting one of the Sentinels, another drop-down menu is displayed, from which you select a line or a radio as the physical communication channel.
- Set the channel's 'Test time': for Input repeaters, the PimaGuard expects a test report from the Output repeaters, within the 'Test time' (in minutes); for Output repeaters, the PimaGuard generates a test report when no event is being handled.
- 6. Account: for Intput repeaters, this is a 'keep alive' and fault account: if no report is recieved in this channel within the 'Test time', the PimaGuard generates a report (TN in PAF) with this account number; there is no reset report for this event.
- 7. Click OK.

<u>Format</u>

8. Double-click 'Format 1' on the right pane.



- Select the incoming transmission's format from the drop-down list. From the list, PAF NPAF EPAF & DESK
 are Radio and PSTN formats; PID, SIA & CID are supported if a "non dos compatible" (PID) repeater type
 is selected (version 1.2.4.0 and up); 4X2 applies to any Radio and PSTN protocol that applies this
 structure or less.
- 10. Set the 'Repeater system'; it should be the same system as in the Output repeater.



When the repeater works in radio or PSTN channel, the system number must be different from the physical channel.

- 11. The 'Add to account' & 'Route to' features are disabled in the Input mode.
- 12. Flag: not in use.

- 13. Extra: not in use.
- 14. Filter type: see page 25.
- 15. Add to acount: see page 20.
- 16. Route to: see page 20.

Output

When the Repeater is used as an output one, the channels are used to backup each other. Only one protocol list is used by all the channels. In this mode, if a fault account is defined in the PimaGuard, the event will be reported with the repeater's 'keep alive' account, if exists.

- 17. Double-click Repeater 1;
- 18. Filters: see page 25;
- 19. Double-click Format 1;





When selecting a PSTN line as the outgoing repeater, chances for delays are high; therefore, it is recommanded to use it as a backup channel only.

Channel

- 20. The PimaGuard uses the channels as a backup for outgoing Repeaters.
- 21. For each transmission there are three tries in each channel.
- 22. When selecting a Line, add the line number in the 'Destination address'. It should contain nothing but digits.
- 23. 'Test time': this event is sent when there no other events in the buffer.
- 24. 'Account': this is a test account. when the PimaGuard is faulty, a fault event is sent with this account (and the first system of the current channel), and not the PimaGuard's one (the one that is set in 'General'. See page 13).
- 25. Press OK.

FILTERS

A filter enables you to decide what information will be received by the PimaGuard and what will not. The filters are: Account, Event, Date, Days, Time, Format and Channel. The Filters window appears the same in every channel and module, but is set separately for each.



- A. If more than one filter is used, the different filters are added to each other (AND operator) and only events that are not filtered by any of the filters will be handled. The same applies if the communication is re-routed;
- B. In filters where there is more than one range, the events will only be handled if they are included in one of the ranges;
- C. A range includes both margins;

Account

Filter the events by the Account number. There are 2 filtering ranges and a limit list. In the next example, only the events from accounts 1-500 OR 600-999 will be accepted. Numbers outside these ranges will be ignored.



Limit List

Limit list is a list of either event codes or account ranges that serves as a limit filter in addition to all other filters. The number set in this field is the number of values out of the whole list. For example, if the list contains 1,000 account numbers, but the list limit is set to 400, only the first 400 numbers will be processed and all others will

be ignored.

The list itself is a text file and the values that are manually inserted into it, should be divided by any punctuation mark or a space. The text file must carry the name FLL (not case sensitive) and the extension tells the PimaGuard where to implement the limit list (see the next table).

The list can be changed at any time.

The blank filename is TSCFN.FLL where:

- · T: filter type;
- S: source (the number of sentinels, repeaters or comm.s etc.);
- · C: channel;
- F: format;
- · N: filter number.

Replace the extension according to the next table. The type, Source and Filter no. must be used in every configuration. An empty table cell means <u>do not use</u> this channel/format.

Туре	ype Source Channel		Format	Filter No.
S: Sentinel card	0-8	Line: 0-3 ; Radio: 4-5	0-9; A-V	0-1
C: COM	0-8			0-1
L: Log	0-8			0-1
R: Repeater	0-8	0-7	0-9; A-V	0-1
M: Monitor	0-8			0-1

Examples:

S14B0.FLL

This filename tells the PimaGuard to receive transmissions only from Sentinel card #2 in Radio #1, and only when the format in use is format no. 12 in the formats list. After that, the PimaGuard reads the content of the file under the list limit no. and compares it to the transmission's content: only matching values are received.

C10.FLL

This filename tells the PimaGuard to receive transmissions only from Comm. #2. After that, the PimaGuard reads the content of the file under the list limit no. and compares it to the transmission's content: only matching values are received.

R201.FLL

This filename tells the PimaGuard to receive transmissions only from Reapeter #3 in the repeaters list, channel #1, filter #2.

Event

Filter the communication by the Events numbers. There are 2 filtering ranges and a limit list (see the Account section before).

PAF, 4X2 and any other non-decimal events are converted to decimal numbers.

Date

Events outside a date range are filtered.

Days

The number of days from the day the 'bs1' file is created.

Time

Events outside a time range (in hours) are filtered.

Format

Filter the communication by the event format. For each Line/Radio/Channel there can be 2 filters, i.e. only the filtered formats will be handled.

Channel

Filter events by the physical channel - Sentinel or Communication, i.e., line X, Radio X, Repeater X, COM X, etc. For example, when viewing the monitor, you can filter events and see only those who are received through COM 1.

APPENDIX A RECOMMENDED TRANSCEIVER SPECIFICATIONS

The following table contains a list of recommended specifications for connecting a narrowband VHF or UHF transceiver to the PimaGuard:

Feature	Transceiver
Squelch	 Squelch switch should be manually adjustable; Squelch switch status should be retained after transceiver powered off; Internal Squelch switch should also be turned off;
Output Signal	 Speaker switch (optional); Maximum output signal (ext. speaker) should not exceed 1Vp-p; Output signal should remain constant at all time, i.e., is not volume and/or speaker switch dependent; Output signal should not include data like start-up ID, pre-transmission message, etc. (this is usually a settable feature)
I/O Interface	 Wires length should support up to 1 meter; PTT Control; GND; Audio IN (MIC input can be used instead); Audio OUT (constant output signal);
Power source	The technical specifications of the power source should comply with the transceiver's manufacturer specs. On top of that, it is important that the power source will be clean from ripple noise.
Antenna	 It is advisable to install the antenna on as high as possible location (e.g., communication antennas tower). The antenna cable should be a Heliax, RG203, or RG19 cable. These cables are mechanically strong and minimize any signal attenuation. A 5.25 dB antenna is usually sufficient for radio transmissions.

APPENDIX B CENTRAL STATION INSTALLATION CHECKLIST

Radio Transceiver

The transceiver should follow these guidelines:

- 1. It should be a narrowband receiver (12.5 KHz);
- 2. No data transmission (e.g. ID, pre-transmission message) is allowed within the transmission;
- 3. The squelch should always be turned OFF (i.e., signal and noise are fully transferred into the Sentinel). It can be set either manually or internally:
 - a. Manual adjustment squelch: turning the receiver OFF and ON does not change the squelch state;
 - b. Internal squelch: the squelch is turned OFF by the manufacturer or supplier of the Radio Transceiver.
- 4. The receiver signal output level should be constant and not to be effected by the volume control knob or the received signal strength (i.e., any Automatic Gain Control (AGC) must be turned OFF);
- 5. When a repeater is in use, the transceiver should always transmit (i.e., unconditionally).



Some transmitters interrogate the network when the PTT is pressed and will not transmit if it is busy (i.e., when a signal is received by the receiver).

The transmitter wakeup time (i.e., how long it takes from the time the PTT is pushed until it starts transmitting) should be less than 150 mSec.

Antenna & Cable

- 1. The antenna should have at least a 4.7 dB attenuation;
- 2. For a length of less than 20 meters between the antenna base and the radio transceiver, an RG-213 antenna cable should be used. For a length of more than 20 meters a Helix antenna cable should be used;
- 3. All antenna connections should be sealed against wetness.



The antenna should be connected directly to the ground to minimize any damage caused by a direct hit from a lightning.

- 4. The antenna cable should <u>not</u> run in parallel to any electric wires to avoid RF interferences. If this is unavoidable, the cable should run at least 1 meter away from the electric wires.
- 5. When the transceiver is in use, the Voltage Standing Wave Ratio (VSWR) should be 1.5V max (i.e., the returning waves are less than 4%).

APPENDIX C FAULT CODES

All PimaGuard fault codes are sent in 4x2 format with the error account number or, if set, the repeater's supervision account number.

Code	Failure	Code	Restore
01	*Phone\Radio Fail 1	81	*Phone\Radio Restore 1
02	*Phone\Radio Fail 2	82	*Phone\Radio Restore 2
03	*Phone\Radio Fail 3	83	*Phone\Radio Restore 3
04	*Phone\Radio Fail 4	84	*Phone\Radio Restore 4
05	*Phone\Radio Fail 5	85	*Phone\Radio Restore 5
06	*Phone\Radio Fail 6	86	*Phone\Radio Restore 6
07	*Phone\Radio Fail 7	87	*Phone\Radio Restore 7
08	*Phone\Radio Fail 8	88	*Phone\Radio Restore 8
09	*Phone\Radio Fail 9	89	*Phone\Radio Restore 9
0A	*Phone\Radio Fail 10	8A	*Phone\Radio Restore 10
0B	*Phone\Radio Fail 11	8B	*Phone\Radio Restore 11
0C	*Phone\Radio Fail 12	8C	*Phone\Radio Restore 12
0D	*Phone\Radio Fail 13	8D	*Phone\Radio Restore 13
0E	*Phone\Radio Fail 14	8E	*Phone\Radio Restore 14
0F	*Phone\Radio Fail 15	8F	*Phone\Radio Restore 15
10	*Phone\Radio Fail 16	90	*Phone\Radio Restore 16
11	Phone Fail 17	91	Phone Restore 17
12	Phone Fail 18	92	Phone Restore 18
13	Phone Fail 19	93	Phone Restore 19
14	Phone Fail 20	94	Phone Restore 20
15	Phone Fail 21	95	Phone Restore 21
16	Phone Fail 22	96	Phone Restore 22
17	Phone Fail 23	97	Phone Restore 23
18	Phone Fail 24	98	Phone Restore 24
19	Phone Fail 25	99	Phone Restore 25
1A	Phone Fail 26	9A	Phone Restore 26
1B	Phone Fail 27	9B	Phone Restore 27
1C	Phone Fail 28	9C	Phone Restore 28
1D	Phone Fail 29	9D	Phone Restore 29
1E	Phone Fail 30	9E	Phone Restore 30
1F	Phone Fail 31	9F	Phone Restore 31
20	Phone Fail 32	A0	Phone Restore 32
21	Comm 1 Fail	A1	Comm 1 Restore
22	Comm 2 Fail	A2	Comm 2 Restore
23	Comm 3 Fail	A3	Comm 3 Restore
24	Comm 4 Fail	A4	Comm 4 Restore
25	Comm 5 Fail	A5	Comm 5 Restore
26	Comm 6 Fail	A6	Comm 6 Restore
27	Comm 7 Fail	A7	Comm 7 Restore
28	Comm 8 Fail	A8	Comm 8 Restore
29	Log 1 Fail	A9	Log 1 Restore
2A	Log 2 Fail	AA	Log 2 Restore
2B	Log 3 Fail	AB	Log 3 Restore
2C	Log 4 Fail	AC	Log 4 Restore

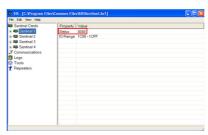
^{*} The Radio and Line channels are distinguished by the protocol. Internal errors are sent with line distinguishers.

If a repeater test/fail account is set, the repeater faults are sent with TN; else, they are sent with the Central Monitoring Station's faults account

Code	Failure	Code	Restore
2D	Repeater 1 Channel 1 Fail	AD	Repeater 1 Channel 1 Restore
2E	Repeater 1 Channel 2 Fail	AE	Repeater 1 Channel 2 Restore
2F	Repeater 1 Channel 3 Fail	AF	Repeater 1 Channel 3 Restore
30	Repeater 1 Channel 4 Fail	В0	Repeater 1 Channel 4 Restore
31	Repeater 2 Channel 1 Fail	B1	Repeater 2 Channel 1 Restore
32	Repeater 2 Channel 2 Fail	B2	Repeater 2 Channel 2 Restore
33	Repeater 2 Channel 3 Fail	В3	Repeater 2 Channel 3 Restore
34	Repeater 2 Channel 4 Fail	В4	Repeater 2 Channel 4 Restore
35	Repeater 3 Channel 1 Fail	B5	Repeater 3 Channel 1 Restore
36	Repeater 3 Channel 2 Fail	В6	Repeater 3 Channel 2 Restore
37	Repeater 3 Channel 3 Fail	В7	Repeater 3 Channel 3 Restore
38	Repeater 3 Channel 4 Fail	В8	Repeater 3 Channel 4 Restore
39	Repeater 4 Channel 1 Fail	В9	Repeater 4 Channel 1 Restore
3A	Repeater 4 Channel 2 Fail	BA	Repeater 4 Channel 2 Restore
3B	Repeater 4 Channel 3 Fail	BB	Repeater 4 Channel 3 Restore
3C	Repeater 4 Channel 4 Fail	BC	Repeater 4 Channel 4 Restore
3D	Repeater 5 Channel 1 Fail	BD	Repeater 5 Channel 1 Restore
3E	Repeater 5 Channel 2 Fail	BE	Repeater 5 Channel 2 Restore
3F	Repeater 5 Channel 3 Fail	BF	Repeater 5 Channel 3 Restore
40	Repeater 5 Channel 4 Fail	C0	Repeater 5 Channel 4 Restore
41	Repeater 6 Channel 1 Fail	C1	Repeater 6 Channel 1 Restore
42	Repeater 6 Channel 2 Fail	C2	Repeater 6 Channel 2 Restore
43	Repeater 6 Channel 3 Fail	C3	Repeater 6 Channel 3 Restore
44	Repeater 6 Channel 4 Fail	C4	Repeater 6 Channel 4 Restore
45	Repeater 7 Channel 1 Fail	C5	Repeater 7 Channel 1 Restore
46	Repeater 7 Channel 2 Fail	C6	Repeater 7 Channel 2 Restore
47	Repeater 7 Channel 3 Fail	C7	Repeater 7 Channel 3 Restore
48	Repeater 7 Channel 4 Fail	C8	Repeater 7 Channel 4 Restore
49	Repeater 8 Channel 1 Fail	C9	Repeater 8 Channel 1 Restore
4A	Repeater 8 Channel 2 Fail	CA	Repeater 8 Channel 2 Restore
4B	Repeater 8 Channel 3 Fail	СВ	Repeater 8 Channel 3 Restore
4C	Repeater 8 Channel 4 Fail	CC	Repeater 8 Channel 4 Restore

Code	Event
00	Test. The beep does not sound on this error.
	Invalid Answer: the input repeater answer is unexpected. It indicates errors in the physical channel (antenna, noises, etc.).
7D	Call Error (only if "Caller ID" is active). The beep does not sound on this error.
	Critical Temperature!
	Reset Temperature
	General Fault. An unidentified error. Can be any of the errors in this table, such as Sentinel errors, RAM memory error or Pattern Error. For Example: account #65056 or #8191 for repeaters route. This happens when the output frame to the CMS cannot support account or event size.
TN (PAF)	Repeater failure. The beep does not sound on this error.

Sentinel status events



The Sentinel's status is represented by 4 bits. The reports are sent as 7F events and indicate the following:

Bit	Event
	Sentinel chip overflow
	Sentinel is not responding
4	Configuration file error
$70 = 0 \times FF$	General fatal error

SAR (Stand Alone Repeater) Events:

Hex Code	Event
60	Tamper open
61	Zone #1 open
62	Zone #2 open
63	AC fault
64	Low battery
E0	Tamper restore
E1	Zone #1 restore
E2	Zone #2 restore
E3	AC restore
E4	Low battery restore

APPENDIX D STRUCTURED COMMUNICATION FORMATS

Legend

All symbols are in ASCII; not case-sensitive.

- A= Account (decimal, max. 10 digits)
- L= Account (hexadecimal, max. 10 digits)
- E= Event (max 4 digits, normal form as is; PAF/NPAF/EPAF in alphabetic order, upper case)
- K= Key and Siren Status
- T= Event type:
 - 1 Alarm/Disarming
 - 3 Reset/Arming
 - 6 Previous event
- Q= Event type:
 - E Alarm/Disarming
 - R Reset/Arming
 - P Previous event
- U Unknown event
- Z= Zone (decimal) P= Partition (decimal)
- I= Caller ID number, digits
- C= Checksum
- HH:MM:SS = Time structure. The structure cannot be broken, nor changed
- DD/MM/YY= Short date structure. The structure cannot be broken, nor changed
- DD/MM/YYYY= Long date structure. The structure cannot be broken, nor changed
- \= Next 2 digits value is in hexadecimal (must use 2 digits)
- #= Media number, Repeater Channel/Line/Radio/COMM
- *= Decoder ID, is taken from the user definitions of the input format (decimal, 0-default)
- []= Source options; every 2 characters represent a condition and its value, to be placed in the frame. See the next examples.

Source options examples

L - Line, R - Radio, T - Repeate, C - COMM, S - Special (see each build-in format for details); is defined by the format

Example 1

[L3R1] => if the frame was received via the phone line, '3' will be placed in the frame to the CMS; if the frame was received via the radio, '1' will be placed in the frame to the CMS. The first true condition is placed in the frame; if none of the conditions is true, the first one will be placed in anyway.

Example 2

 $[T5R\5A] =>$ if the frame was received via a repeater, '5' will be placed in the frame to the CMS; if the frame was received via the radio, 'Z' will be placed in the frame to the CMS.

Example 3

[SS...] => if appears, it means "special". See the relevant format special conditions.

Structured Formats

This section applies to RS-232 protocols only. To diagnose the event's output by the incoming protocol, see Format Events & Converting Appendix on page 36.

Atia 13

```
Frame Structure: [L3R1]AAAA----EE\0A\0D
[L3R1] 3 - Input from Line (or other)
1 - Input from Radio
A - 4 digit account, decimal
E - 2 digit event
```

Atia 13 Expanded

Frame Structure - [R1L3]AAAA----EE\0A\0D

- 3 Input from Line (or other)
- 1 Input from Radio
- A 4 digit account, decimal
- E 2 digit event

In CID, when zone or user number are higher than 62, the protocol is represented in Hebrew characters.

Atia 13+CallID

```
Frame Structure – [L3R1]AAAA----EE \54:IIIIIIIIIIIIIIII\0A\0D
```

- 3 Input from Line (or other)
- 1 Input from Radio
- A 4 digit account, decimal
- E 2 digit event
- \54 'T'
- I Account phone number

Atia 1389

```
Frame Structure - [S]AAAA----EE\0A\0D
```

- S = options:
 - 8 = Input from Line (PIMA format)
 - 3 = Input from Line (non-PIMA format)
 - 9 = Input from Radio (PIMA format)
 - 1 = Input from Radio (non-PIMA format)
 - A = 4 digit account, decimal
 - E = 2 digit event

Atia 1389 A6

```
Frame Structure - [S]AAAAAA----EE\0A\0D
```

- S = options:
 - 8 = Input from Line (PIMA format)
 - 3 = Input from Line (non-PIMA)
 - 9 = Input from Radio (PIMA format)
 - 1 = Input from Radio (non-PIMA)
 - A = 6 digit account, decimal E = 2 digit event

Atia 1389+CallID

- S = options:
 - 8 = Input from Line (PIMA format)
 - 3 = Input from Line (non-PIMA)
 - 9 = Input from Radio (PIMA format)
 - 1 = Input from Radio (non-PIMA)
 - A = 6 digit account, decimal
 - E = 2 digit event
 - \54 = 'T'
 - I = Account phone number

Atia 13489

Frame Structure - [S]AAAA----EE\0A\0D

S = options:

8 = Input from Line (PIMA format)

3 = Input from Line (others format)

9 = Input from Radio (PIMA format)1 = Input from Radio (others format)

4 = Radio ELL6 only

A = 4 digit account, decimal

E = 2 digit event

Atia 123459

Frame Structure - [S]AAAA----EE\0A\0D

S = options:

5 = Input from Line (PIMA format)

3 = Input from Line, DESK only

9 = Input from Line (non-PIMA)

4 = Input from Radio (PIMA format)

1 = Input from Radio, DESK only

2 = Input from Radio (non-PIMA)

A = 4 digit account, decimal

E = 2 digit event

FBI

Frame Structure - ##AAAAEE\0D (Applicable to PAF/NPAF/EPAF*/SIA/4x2)

- Incoming Sentinel/Communication/Repeater channel number

A = 4 digit account, decimal

E = 2 digit event

Frame Structure - \0A## AAAA 18 QEEE PP ZZZ \0D(Applicable to CID/PID)

- Incoming Sentinel/Communication/Repeater channel number

A = 4 digit account, decimal

18 – permanent

Q= Event type:

E - Alarm/Disarming

R - Reset/Arming

P - Previous event

U - Unknown event

E = 3 digit event

P= 2 digit partition, decimal

Z= 3 digit zone/user, decimal

* When the input is External, the FBI protocol does not distinguish between PAF/NPAF/EPAF and 4x2. When the output is External, the 4x2 protocol is the default one. If required, use FBI External.

FBI PAF=>CID

Frame Structure – ##AAAAEE\0D (applicable to SIA/4x2)

Frame Structure – $\0A\#\#$ AAAA 18 QEEE PP ZZZ $\0D(Applicable to PAF/NPAF/EPAF/CID)$

Same as FBI, except PAF/NPAF/EPAF event is converted to CID. See "Events Conversion Table" on page 36.

FBI CR=>20

Frame Structure – ##AAAAEE\14 (Applicable to PAF/NPAF/EPAF/SIA/4x2)

Frame Structure – $\0A\#\#$ AAAA 18 QEEE PP ZZZ $\14$ (Applicable to CID)

It is used the same as FBI, except the frame-end: 0x14 instead of 0x0D.

GALAXY

Frame Structure – $G[L0R1]^{**}$ #0 AAAA-EE 00\0D\0A (applicable to all the formats)

[LOR1] - 0: Input from Line (or other)

1: Input from Radio

 $\ensuremath{^{**}}$ - Decimal, 0-99 (00 is default) from Decoder ID in the received format

- Channel number (1...F, 0). The numbers start from 1 to F in Hexadecimal, 0 = the 16th number. If count restart, it restart from 0

A = 4 digit account, decimal

- = permanent

E = 2 digit event

00 = permanent

Idle frame - \50**\0D\0A.

** - Decimal, 0-99 from the Decoder ID on General->Configuration See "Configuration" on page 13. For each incoming format PAF/NPAF/EPAF/CID/PID/SIA/4x2 see "Events Conversion Table" on page 36.

FRI GALAXY 1

Frame Structure - ##AAAAEE\0D (Applicable to PAF/NPAF/EPAF*/SIA/4x2)

This format is the same as FBI, except the Idle frame - $\50**\0D\0A$

** - Decimal, 0-99 from Decoder ID on General->Configuration. See "Configuration" on page 13.

FBI GALAXY 2

2 = NPAF

```
Frame Structure - **AAAAEE\0D (Applicable to PAF/NPAF/EPAF*/SIA/4x2)
     ** - decimal 0-99 from Decoder ID in the received format (00 is default)
     Frame Structure - \0A[SS] AAAA 18 QEEE PP ZZZ \0D (Applicable to CID/PID)
     [S1S2] - Special Galaxy:
         S1 = DecoderID -> Hex -> First Nibel
           For example: 27 -> 1B -> B
         S2 = If phone or comm = Channel* # -> Hex -> First Nibel
           Example 1: (Sentinel 3 line 3) 12 -> C -> C
           Example 2: (Comm 5) 5 -> 5 -> 5
     * Phone channels are 1-16, Comm are 1-8
     If radio = 61 + (Channel* # x 2) -> Hex -> First Nibel
        For example: (Sentinel 3 Radio 1)
     61 + (4*2) -> 69 dec -> 45 hex -> 5
     * Radio channels are 0-7
     If the repeater is Input one, check whether the physical channel is Line, Comm or Radio and calculate S2 by the physical
     channel number.
     Example 1: event recived from repeater 3 channel 2, which is physical, Sentinel 1 radio 2-
      61 + (1 *2) = 63 -> 3F -> F
     Example 2: event recived from repeater 1 channel 4, which is physical Sentinel 1 line 1 (or Comm 1) - 1 dec -> 1 hex -> 1
     If the event is "internal" (failure/restore) - the decoder ID is taken from the configuration and physical channel number or
      default 1.
     Idle frame - 50**0D\0A
     ** - Decimal, 0-99, from the Decoder ID on General->Configuration See "Configuration" on page 13
FBI DESK
  Frame Structure - ##AAAAEE\0D (Applicable to PAF/NPAF/EPAF/SIA/4x2)
     ## - Incoming Sentinel/Communication/Repeater channel number
     A = 4 digit account, decimal
     E = 2 digit event
  Frame Structure - \0A## AAAA 18 QEEE PP \43ZZZ \0D (Applicable to CID/PID)
     ## - Incoming Sentinel/Communication/Repeater channel number
     A = 4 digit account, decimal
     18 - permanent.
     Q= Event type:
       E - Alarm/Disarming
       R - Reset/Armina
       P - Previous event
       U - Unknown event
       E = 3 digit event
     P= 2 digit Partition, decimal
     \43 = 'C'
     Z= 3 digit Zone/User, decimal
FBI External
  Frame Structure - ##AAAAEE\0D (Applicable to 4x2)
     ## - Incoming Sentinel/Communication/Repeater channel number
     A = 4 digit account decimal
    E = 2 digit event
  Frame Structure - \0A## AAAA 18 QEEE PP ZZZ \0D (Applicable to CID/PID)
     ## - Incoming Sentinel/Communication/Repeater channel number
     A = 4 digit account, decimal
     18 - permanent
     O= Event type:
       E - Alarm/Disarming
       R - Reset/Arming
        P - Previous event
       U - Unknown event
       E = 3 digit event
     P= 2 digit Partition, decimal
     Z= 3 digit Zone/User, decimal
  Frame Structure - ##AAAAEEZZZ\OD (Applicable to SIA)
     ## - Incoming Sentinel/Communication/Repeater channel number
     A = 4 digit account, decimal
     E = 3 digit event
  Frame Structure - ##AAAA[S]EEK\OD (Applicable to PAF/NPAF/EPAF)
     ## - Incoming Sentinel/Communication/Repeater channel number
     A = 4 digit account, decimal
     S = Multiple Conditions:
        1 = PAF
```

Frame Structure – 20##

20 - PAF permanent

A = 4 digit account, decimal S = Multiple Conditions:

```
3 = EPAF
        E = 2 digit event
        K = Multiple Conditions:
        0 = SIREN OFF KEY OFF
        1 = SIREN OFF KEY ON
        2 = SIREN ON KEY OFF
        3 = SIREN ON KEY ON
SURGARD
                           AAAA EE\14 (Applicable to PAF/NPAF/EPAF*/4x2)
  Frame Structure - 10##
    10 - 4x2 permanent
     ## - Incoming Sentinel/Communication/Repeater channel number
    A = 4 digit account, decimal
    E = 2 digit event
* The protocol cannot distinguish between PAF/NPAF/EPAF and 4x2 when the input is External. When it is Output it will use 4x2
  by default. If needed use SURGARD External.
  Frame Structure - 50## 18AAAAQEEE ZZZ\14 (Applicable to CID/PID)
50 - CID permanent
     ## - Incoming Sentinel/Communication/Repeater channel number
    18 - Permanent.
    A = 4 digit account decimal
    Q= Event type:
       E - Alarm/Disarming
       R - Reset/Arming
       P - Previous event
       U - Unknown event
    E = 3 digit event
    Z= 3 digit Zone/User, decimal
  Frame Structure - 30## AAAAEE ZZZ\14 (Applicable to SIA)
30 - SIA permanent
  \hbox{\it \#\#-Incoming Sentinel/Communication/Repeater }\ channel\ number
  A = 4 digit account, decimal
  E = 2 digit event
  Z= 3 digit Zone/User, decimal
SURGARD PAF=>HEX
  Frame Structure - 10## AAAA EE\14 (Applicable to PAF/NPAF/EPAF*/4x2)
  Frame Structure - 50## 18AAAAQEEE ZZZ\14 (Applicable to CID/PID)
  Frame Structure - 30## AAAAEE ZZZ\14 (Applicable to SIA)
     The structure is the same as the SURGARD, except PAF/NPAF/EPAF events, that are converted to Hexadecimal Digits.
     See "Events Conversion Table" on page 36.
  * See SURGARD
SURGARD External
  Frame Structure - 10##
                           AAAA EE\14 (Applicable to 4x2)
    10 - 4x2 permanent.
     ## - Incoming Sentinel/Communication/Repeater channel number
    A = 4 digit account, decimal
    E = 2 digit event
  Frame Structure – 50## 18AAAAQEEE ZZZ\14 (Applicable to CID/PID)
    50 - CID permanent
     ## - Incoming Sentinel/Communication/Repeater channel number
    18 - Permanent
    A = 4 digit account decimal
    Q= Event type:
       E - Alarm/Disarming
       R - Reset/Arming
       P - Previous event
       U - Unknown event
    E = 3 digit event
    Z= 3 digit Zone/User, decimal
  Frame Structure - 30##
                           AAAAEE ZZZ\14 (Applicable to SIA)
    30 - SIA permanent
     ## - Incoming Sentinel/Communication/Repeater channel number
    A = 4 digit account, decimal
    E = 2 digit event
    Z= 3 digit Zone/User, decimal
```

AAAA [S]EEK\14 (Applicable to PAF/NPAF/EPAF)

- Incoming Sentinel/Communication/Repeater channel number

```
1 = PAF
       2 = NPAF
       3 = EPAF
       E = 2 digit event
    K = Multiple Conditions:
       0 = SIREN OFF KEY OFF
       1 = SIREN OFF KEY ON
       2 = SIREN ON KEY OFF
       3 = SIREN ON KEY ON
DESK WINDOWS
  Frame Structure - G[L0R1]31#0 AAAA-EE 00\0D\0A
    G = Permanent
    [LOR1] = Line (and other) - 0, Radio - 1
    31 = Permanent
    # = Input Line number (1-9)**
    0 = Permanent
    A = 4 digit account, decimal
    E = 2 digit event (converted to Hexa*)
    00 = Permanent
* For the incoming formats PAF/NPAF/EPAF/CID/SIA/4x2, see "Events Conversion Table" on page 36.
** If the number is over 9, counting restarts from 1.
  Frame Structure - \0A[SSSSSSSSSSSSSSSSSS]AAAAAAEE______CC\0D (Applicable to 4x2)
  [SSSSSSSSSSSSSS]*
    A = 6 digit account decimal
    E = 2 digit event
    CC = CRC
  Frame Structure - \0A[SSSSSSSSSSSSSSSSSSSS]AAAAAAEEK_____CC\0D (Applicable to NPAF/EPAF/PAF)
  [SSSSSSSSSSSSSS]*
    A = 6 digit account, decimal
    E = 2 digit event
    K = Multiple Conditions:
       0 = SIREN OFF KEY OFF
       1 = SIREN OFF KEY ON
       2 = SIREN ON KEY OFF
       3 = SIREN ON KEY ON
    CC = CRC
  \label{thm:conditional} Frame\ Structure\ -\ \ \ \ (Applicable\ to\ SIA)
  [SSSSSSSSSSSSSSS]*
    A = 6 digit account decimal
    E = 2 digit event
    Z= 3 digit Zone/User, decimal
    CC = CRC
  Frame Structure - \0A[SSSSSSSSSSSSSSSSSS]AAAAAATEEEPPZZZCC\0D (Applicable to CID)
  [SSSSSSSSSSSSSSS]*
    A = 6 digit account, decimal
    E = 3 digit event
    CC = CRC
  *[SSSSSSSSSSSSSSSS] stands for [CNPXXXXXXXXXXXXXXXXXXX]
    C = Input Channel Multiple options:
       Radio = 1
       Phone = 2
       Network = 3
       GPRS = 4
       Repeater= 5
       Comm. = 9
       Other: TBD
    N = Channel number (1...F, 0) **
    P = Input protocol multiple conditions:
       PAF=1
       NPAF=2
       4x2=3
       CID=4
       ELL=5
       KP=6
       DESK=7
       SIA=8
```

```
EPAF=9
       PID=A
       Other: TBD
    X = Channel extansion
     Radio: FFVVTTTTT
        F -Frame Number
        V -Volume
        T -The format in PIMA's panels
        Phone: Caller ID 16 Digits (if programmed)
        Other: TBD
** Numbers start from 1 to F in Hexadecimal, 0 = the 16th number. If count restarts, it restarts from 0.
ELL
  Frame Structure - AAAA--E [L*R ]HH:MM -01\0D
    A = 4 digit account decimal
    E = 1 digit event*
    [L*R] = Line (or other) - `*', Radio - `` (space)
    HH:MM – The current time, hour and minute
    -01 = Permanent
* For the incoming formats PAF/NPAF/EPAF/CID/PID/SIA/4x2, see "Events Conversion Table" on page 36.
ELL IRCN
  Frame Structure – 1011 AAAA EEEEE\0D
    1011 = Permanent.
    A = 4 digit account decimal
    E = 5 digit event*
* For the incoming formats PAF/NPAF/EPAF/CID/PID/SIA/4x2, see "Events Conversion Table" on page 36.
STANDALONE (applied to SAR Only)
  Frame Structure -\0AAAAA EE\0D
    A = 4 digit account, decimal. Note that it is \OA & AAAA and not 5 digit account number
    E = 2 digit event*
* Hexadecimal, 4x2 only
COMPUCHER
  Frame Structure - \0A[SSSSSSSSSSSSSSSSSSSS]AAAAAAEE_____CC\0D (Applicable to 4x2)
  [SSSSSSSSSSSSSS]*
    A = 6 digit account, decimal
    E = 2 digit event
    CC = CRC
  Frame Structure - \0A[SSSSSSSSSSSSSSSSSSS]AAAAAAEEK CC\0D (Applicable to N/EPAF/PAF)
  [SSSSSSSSSSSSSS]*
    A = 6 digit account, decimal
    E = 2 digit event
    K = Multiple Conditions:
       0 = SIREN OFF KEY OFF
       1 = SIREN OFF KEY ON
       2 = SIREN ON KEY OFF
       3 = SIREN ON KEY ON
    CC = CRC
  Frame Structure - \0A[SSSSSSSSSSSSSSSSSSSS]AAAAAAEEZZZ___CC\0D (Applicable to SIA)
  [SSSSSSSSSSSSSSSS]*
    A = 6 digit account, decimal
    E = 2 digit event
    Z= 3 digit Zone/User, decimal
    CC = CRC
  Frame Structure - \0A[SSSSSSSSSSSSSSSSSS]AAAAAATEEEPPZZZCC\0D (Applicable to CID)
  [SSSSSSSSSSSSSS]*
    A = 6 digit account, decimal
    E = 3 digit event
    CC = CRC
 * [SSSSSSSSSSSSSSSS] stands for [CNPXXXXXXXXXXXXXXXXX]
    C = Input channel, multiple optios:
        Radio = 1
        Phone\Comm**= 2
        Other: TBD
    N = Chanel number (1...F, 0) ****
    P = Input protocol, multiple conditions:
        PAF= 1
        NPAF= 2
        4x2 = 3
```

```
CID= 4
         ELL= 5
         KP= 6
         DESK= 7
         SIA=8
         EPAF= 9
         PID= A
         Other: TBD
    X = Chanel extansion:
         Phone: Caller ID 16 Digits (if programmed)
         Other: TBD
** If the channel is Comm (C=2), N=0.
   If the channel is Repeater (C=1), N=8+Repeater Number
*** Numbers are from 1 to F in Hexadecimal, 0 = the 16th number. If counting restarts, it will start from 0.
ADEMCO 685
  Frame Structure - \0A*# AAAA EE\0D (Applicable to PAF/NPAF/EPAF*/SIA/4x2)
     * => Decoder ID, right digit only
     If 69 is entered => 9 (default = 0)
      # => Channel #, right digit only
     If Sentinel 3 line 4 \Rightarrow 12 \Rightarrow 2 (default = 0)
     Internal line # = 1
     For each incoming format PAF/NPAF/EPAF/CID/PID/SIA/4x2 see Format Events & Converting Appendix.
  Frame Structure - \0A*# AAAA 18 QEEE PP [S]ZZZ \0D (Applicable to CID/PID)
      * => Decoder ID right digit only
     If entered 69 = 9 (default = 0)
      # => Channel # right digit only
     If Sentinel 3 line 4 \Rightarrow 12 \Rightarrow 2 (default = 0)
     Internal line # = 1
      A = 4 digit account decimal
      18 - permanent.
      Q= Event type:
         E - Alarm/Disarming
         R - Reset/Arming
         P - Previous event
         U- Unknown event
         E = 3 digit event
      P= 2 digit Partition (decimal)
      [S] = Ademco 685 Special:
         U - User Event
         C - Contact Event
      Z= 3 digit Zone\User (decimal)
```

APPENDIX E EVENTS CONVERSION TABLE

This appendix lists build-in formats and their events conversion to specific RS-232 structures. If converting is irrelevant or not indicated, the "Code" column is the default.

PAF

Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELLIRCN
Alarm zone 9	AA	08	130	1	9	4	A 9
Alarm zone 10	AB	09	130	1	10	4	A 10
Alarm zone 11	AC	0A	130	1	11	4	A 11
Alarm zone 12	AD	0B	130	1	12	4	A 12
Alarm zone 13	AE	0C	130	1	13	4	A 13
Alarm zone 14	AF	0D	130	1	14	4	A 14
Alarm zone 15	AG	0E	130	1	15	4	A 15
Alarm zone 16	AH	0F	130	1	16	4	A 16
Alarm zone 1	AI	00	130	1	1	В	A 1
Alarm zone 2	AJ	01	130	1	2	4	A 2
Alarm zone 3	AK	02	130	1	3	9	A 3
Alarm zone 4	AL	03	130	1	4	9	A 4
Alarm zone 5	AM	04	130	1	5	Е	A 5
Alarm zone 6	AN	05	130	1	6	6	A 6
Alarm zone 7	AO	06	130	1	7	5	A 7
Alarm zone 8	AP	07	130	1	8	4	A 8
Alarm zone 1	JO	00	130	1	1	В	A 1
Alarm zone 2	JP	01	130	1	2	4	A 2
Alarm zone 3	JQ	02	130	1	3	9	A 3
Alarm zone 4	JR	03	130	1	4	9	A 4
Alarm zone 5	JS	04	130	1	5	Е	A 5
Alarm zone 6	JT	05	130	1	6	6	A 6

.					07D \		
Description Alarm zone 7	Code JU	HEX2DGT 06	130	CID alarm*	CID zone\user	ELL 5	A 7
Alarm zone 8	JV	07	130	1	8	4	A 7
Alarm zone 9	JW	08	130	1	9	4	A 9
Alarm zone 10	JX	09	130	1	10	4	A 10
Alarm zone 11	JY	0A	130	1	11	4	A 11
Alarm zone 12	JZ	0B	130	1	12	4	A 12
Alarm zone 13	KA	0C	130	1	13	4	A 13
Alarm zone 14	KB	0D	130	1	14	4	A 14
Alarm zone 15	KC	0E	130	1	15	4	A 15
Alarm zone 16	KD	0F	130	1	16	4	A 16
Alarm zone 17	KE	10	130	1	17	4	A 16
Alarm zone 18 Alarm zone 19	KF KG	11 12	130 130	1	18 19	5 4	A 16 A 16
Alarm zone 20	KH	13	130	1	20	4	A 16
Alarm zone 21	KI	14	130	1	21	C	A 16
Alarm zone 22	KJ	15	130	1	22	0	A 16
Alarm zone 23	KK	16	130	1	23	F	A 16
Alarm zone 24	KL	17	130	1	24	F	A 16
Alarm zone 25	KM	18	130	1	25	F	A 16
Alarm zone 26	KN	19	130	1	26	0	A 16
Alarm zone 27	KO	1A	130	1	27	0	A 16
Alarm zone 28	KP	1B	130	1	28	0	A 16
Alarm zone 29	KQ	1C	130	1	29	0	A 16
Alarm zone 30 Alarm zone 31	KR KS	1D 1E	130 130	1	30 31	0	A 16 A 16
Alarm zone 32	KT	1F	130	1	32	0	A 16
Alarm zone 33	KU	20	130	1	33	C	A 16
Alarm zone 34	KV	20	130	1	34	С	A 16
Alarm zone 35	KW	20	130	1	35	D	A 16
Alarm zone 36	KX	20	130	1	36	4	A 16
Alarm zone 37	KY	20	130	1	37	4	A 16
Alarm zone 38	KZ	20	130	1	38	7	A 16
Alarm zone 39	LA	20	130	1	39	7	A 16
Alarm zone 40	LB	20	130	1	40	7	A 16
Alarm zone 41	LC LD	20	130	1	41	7	A 16 A 16
Alarm zone 42 Alarm zone 43	LE	20 20	130 130	1	42 43	В	A 16
Alarm zone 44	LF	20	130	1	44	F	A 16
Alarm zone 45	LG	20	130	1	45	Α	A 16
Alarm zone 46	LH	20	130	1	46	8	A 16
Alarm zone 47	LI	20	130	1	47	4	A 16
Alarm zone 48	IJ	20	130	1	48	0	A 16
Alarm zone 49	LK	20	130	1	49	0	A 16
Alarm zone 50	LL	20	130	1	50	0	A 16
Alarm zone 51	LM	20	130	1	51	0	A 16
Alarm zone 52 Alarm zone 53	LN LO	20 20	130 130	1	52 53	0	A 16 A 16
Alarm zone 54	LP	20	130	1	54	0	A 16
Alarm zone 55	LQ	20	130	1	55	4	A 16
Alarm zone 56	LR	20	130	1	56	4	A 16
Alarm zone 57	LS	20	130	1	57	4	A 16
Alarm zone 58	LT	20	130	1	58	4	A 16
Alarm zone 59	LU	20	130	1	59	4	A 16
Alarm zone 60	LV	20	130	1	60	0	A 16
Alarm zone 61 Alarm zone 62	LW	20 20	130 130	1	61 62	0	A 16 A 16
Alarm zone 62 Alarm zone 63	LX	20	130	1	63	0	A 16
Alarm zone 64	LZ	20	130	1	64	0	A 16
Alarm zone 65	MA	20	130	1	65	0	A 16
Alarm zone 66	MB	20	130	1	66	0	A 16
Alarm zone 67	MC	20	130	1	67	0	A 16
Alarm zone 68	MD	20	130	1	68	0	A 16
Alarm zone 69	ME	20	130	1	69	0	A 16
Alarm zone 70	MF	20	130	1	70	0	A 16
Alarm zone 71	MG	20	130	1	71	0	A 16
Alarm zone 72 Alarm zone 73	MH MI	20	130 130	1	72 73	0	A 16 A 16
Alarm zone 73 Alarm zone 74	MJ	20 20	130	1	73	0	A 16
Alarm zone 75	MK	20	130	1	75	0	A 16
Alarm zone 76	ML	20	130	1	76	0	A 16
Alarm zone 77	MM	20	130	1	77	0	A 16
Alarm zone 78	MN	20	130	1	78	0	A 16
Alarm zone 79	MO	20	130	1	79	0	A 16
Alarm zone 80	MP	20	130	1	80	0	A 16

New Property Color Color Servin Color Servi	Doscription	Code	HEX2DGT	CID event	CID alarm*	CID zono\usor	ELL	ELLIRCN
Albarm zone 82 MR 20 130 1 882 0 0 A 16 Albarm zone 83 MS 20 1310 1 883 0 A 16 Albarm zone 84 MT 20 130 1 1 884 0 0 A 16 Albarm zone 85 MPU 20 130 1 1 886 0 0 A 16 Albarm zone 86 MPU 20 130 1 1 886 0 0 A 16 Albarm zone 86 MPU 20 130 1 1 886 0 0 A 16 Albarm zone 87 MPU 20 130 1 1 88 0 0 A 16 Albarm zone 88 MPU 20 130 1 1 88 0 0 A 16 Albarm zone 89 MPU 20 130 1 1 88 0 0 A 16 Albarm zone 89 MPU 20 130 1 1 89 0 0 A 16 Albarm zone 89 MPU 20 130 1 1 89 0 0 A 16 Albarm zone 89 MPU 20 130 1 1 89 0 0 A 16 Albarm zone 89 MPU 20 130 1 1 89 0 0 A 16 Albarm zone 91 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 91 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 91 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 93 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 94 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 95 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 A 16 Albarm zone 96 MPU 20 130 1 1 99 0 0 Albarm	Description Alarm zone 81					CID zone\user		
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Alarm zone 84 Alarm zone 85 All								
Alarm zone 85								
Alarm 200e 87		MU	20		1	85	0	
Alarm zone 88	Alarm zone 86	MV	20	130	1	86	0	A 16
Albarm zone 90 MZ 20 130 1 99 0 A 16 Albarm zone 91 NA 20 130 1 991 0 A 16 Albarm zone 91 NA 20 130 1 991 0 A 16 Albarm zone 91 NA 20 130 1 991 0 A 16 Albarm zone 92 NB 20 130 1 991 0 A 16 Albarm zone 93 NC 20 130 1 991 0 A 16 Albarm zone 93 NC 20 130 1 993 0 A 16 Albarm zone 94 ND 20 130 1 994 0 A 16 Albarm zone 94 ND 20 130 1 995 0 A 16 Albarm zone 95 NE 20 130 1 995 0 A 16 Albarm zone 95 NE 20 130 1 995 0 A 16 Albarm zone 96 NF 20 130 1 995 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 96 NF 20 130 1 996 0 A 16 Albarm zone 97 0 Albarm zone 98 NF 20 130 1 996 0 A 16 Albarm zone 98 NF 20 130 1 996 0 A 16 Albarm zone 98 NF 20 130 1 997 0 A 16 Albarm zone 98 NF 20 130 1 997 0 A 16 Albarm zone 98 NF 20 1 993 0 Albarm zone 20 1 993 0 Albarm z	Alarm zone 87	MW	20	130	1	87	0	A 16
Albarm zone 90	Alarm zone 88	MX	20	130	1	88	0	A 16
Alarm zone 91	Alarm zone 89	MY	20	130	1	89	0	A 16
Alarm zone 92 NB 20 130 1 92 0 A 16 Alarm zone 93 NC 20 130 1 93 0 A 16 Alarm zone 95 NE 20 130 1 95 0 A 16 Alarm zone 95 NE 20 130 1 95 0 A 16 Alarm zone 95 NF 20 130 1 95 0 A 16 Ammore 95 NF 20 130 1 95 0 A 16 Ammore 18 NB 91 401 3 13 A CC Arming User 14 NH 92 401 3 15 A C Arming User 15 NI 93 401 3 16 A C Arming User 17 NK 93 401 3 18 A C Arming User 18 NL 93 401 3 12 <	Alarm zone 90	MZ	20	130	1	90	0	A 16
Alarm zone 93 NC 20 130 1 93 0 A 16 Alarm zone 94 ND 20 130 1 94 0 A 16 Alarm zone 95 NE 20 130 1 95 0 A 16 Alarm zone 96 NF 20 130 1 96 0 A 16 Alarm zone 96 NF 20 130 1 96 0 A 16 Arming User 13 NG 91 401 3 14 A C Arming User 15 NI 93 401 3 16 A C Arming User 16 NI 93 401 3 16 A C Arming User 18 NL 93 401 3 19 A C Arming User 18 NL 93 401 3 19 A C Arming User 18 NL 93 401 3 22	Alarm zone 91	NA	20	130	1	91	0	A 16
Alarm zone 94 ND 20 130 1 94 0 A 16 Alarm zone 95 NE 20 130 1 95 0 A 16 Alarm zone 96 NF 20 130 1 95 0 A 16 Arming User 13 NG 91 401 3 13 A C Arming User 14 NH 92 401 3 114 A C Arming User 16 NI 93 401 3 15 A C Arming User 16 NI 93 401 3 16 A C Arming User 17 NK 93 401 3 18 A C Arming User 18 NM 93 401 3 19 A C Arming User 20 NN 93 401 3 221 A C Arming User 22 NP 93 401 3 221	Alarm zone 92			130			0	
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Home User 17	Home User 15	00	A8	401	3	15	Α	С
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Home User 26 OZ A8 401 3 26 A C Home User 27 PA A8 401 3 27 A C Home User 28 PB A8 401 3 28 A C Arming Master PC 84 400 3 0 A C Arming Short PD 94 408 3 0 A C Arming Tempo PE 95 400 3 0 A C Arming User 1 PG 85 401 3 1 A C Arming User 2 PH 86 401 3 2 A C Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C								
Home User 27 PA A8 401 3 27 A C Home User 28 PB A8 401 3 28 A C Arming Master PC 84 400 3 0 A C Arming Short PD 94 408 3 0 A C Arming Tempo PE 95 400 3 0 A C Arming User 1 PG 85 401 3 1 A C Arming User 2 PH 86 401 3 2 A C Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Home User 28 PB A8 401 3 28 A C Arming Master PC 84 400 3 0 A C Arming Short PD 94 408 3 0 A C Arming Tempo PE 95 400 3 0 A C Arming User 1 PG 85 401 3 1 A C Arming User 2 PH 86 401 3 2 A C Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming Master PC 84 400 3 0 A C Arming Short PD 94 408 3 0 A C Arming Tempo PE 95 400 3 0 A C Arming User 1 PG 85 401 3 1 A C Arming User 2 PH 86 401 3 2 A C Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming Short PD 94 408 3 0 A C Arming Tempo PE 95 400 3 0 A C Arming User 1 PG 85 401 3 1 A C Arming User 2 PH 86 401 3 2 A C Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming Tempo PE 95 400 3 0 A C Arming User 1 PG 85 401 3 1 A C Arming User 2 PH 86 401 3 2 A C Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming User 1 PG 85 401 3 1 A C Arming User 2 PH 86 401 3 2 A C Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming User 2 PH 86 401 3 2 A C Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming User 3 PI 87 401 3 3 A C Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming User 4 PJ 88 401 3 4 A C Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming User 5 PK 89 401 3 5 A C Arming User 6 PL 8A 401 3 6 A C								
Arming User 6 PL 8A 401 3 6 A C						5		С
Arming User 7 PM 8B 401 3 7 A C		PL	8A	401	3	6	Α	С
	Arming User 7	PM	8B	401	3	7	Α	С

Docarintion	Codo	HEVODOT	CID avant	CID alarm*	CID zono\usor	ELI	ELLIRCN
Description Arming User 8	Code PN	HEX2DGT 8C	401	CID alarm*	CID zone\user 8	ELL A	C
Arming User 9	PO	8D	401	3	9	A	С
Arming User 10	PP	8E	401	3	10	A	С
Arming User 11	PQ	8F	401	3	11	Α	С
Arming User 12	PR	90	401	3	12	Α	С
Disarming Master	PS	AE	400	1	0	8	0
Disarming Short	PT	BE	408	1	0	8	0
Disarming Tempo	PU	BF	400	1	0	8	0
Disarming Duress	PV	C2	400	1	0	8	0
Disarming User 1	PW	AF	401	1	1	8	0
Disarming User 2	PX	В0	401	1	2	8	0
Disarming User 3	PY	B1	401	1	3	8	0
Disarming User 4	PZ	B2	401	1	4	8	0
Disarming User 5	QA	B3	401	1	5	8	0
Disarming User 6	QB	B4	401 401	1	6 7	8	0
Disarming User 7 Disarming User 8	QC QD	B5 B6	401	1	8	8	0
Disarming User 9	QE	B7	401	1	9	8	0
Disarming User 10	QF	B8	401	1	10	8	0
Disarming User 11	QG	B9	401	1	11	8	0
Disarming User 12	QH	BA	401	1	12	8	0
Home Master	QI	99	400	3	0	Α	С
Home Short	QJ	A9	408	3	0	Α	С
Home Tempo	QK	AA	400	3	0	Α	С
QL	QL	FF	400	1	0	Α	С
Home User 1	QM	9A	401	3	1	Α	С
Home User 2	QN	9B	401	3	2	Α	С
Home User 3	QO	9C	401	3	3	Α	С
Home User 4	QP	9D	401	3	4	Α	С
Home User 5	QQ	9E	401	3	5	Α	С
Home User 6	QR	9F	401	3	6	A	С
Home User 7	QS	A0	401	3	7	A	C C
Home User 8	QT	A1	401	3	8 9	A	
Home User 9 Home User 10	QU QV	A2 A3	401 401	3	10	A	C C
Home User 11	QW	A3 A4	401	3	11	A	С
Home User 12	QX	A5	401	3	12	A	С
Arming Auto	QY	EF	403	3	0	Α	C
Disarming Auto	QZ	F0	403	1	0	Α	С
Home Auto	RA	EF	403	3	0	Α	С
Arming Switch	RB	97	409	3	0	Α	С
Disarming Switch	RC	C1	409	1	0	Α	С
System Inactivity	RD	DE	654	1	0	Α	С
RE	RE	FF	616	1	0	Α	С
Alarm Reset	RG	C4	130	3	0	Z	X 25
System Tamper	RI	C5	137	1	0	Z	A 12
Tamper Restore	RJ	C6	137	3	0	Z	X 25
AC Failure AC Restore	RK RL	C7	301	3	0	Z	T 10 X 25
Low Battery	RM	C8 C9	301 302	1	0	z z	X 25
Battery Restore	RN	CA	302	3	0	Z	R 4
Phone Line Failure	RO	CB	351	1	0	Z	X 25
Phone Line Restore	RP	CC	351	3	0	z	С
Detectors Power Failure	RQ	CD	312	1	0	z	R 1
Detectors Power Restore	RR	CE	312	3	0	z	R 9
Siren 1 Failure	RS	CF	321	1	0	Z	CE
Siren 1 Restore	RT	D0	321	3	0	Z	CE
Siren 2 Failure	RU	D1	322	1	0	Z	T 0
Siren 2 Restore	RV	D2	322	3	0	Z	R 0
Detectors Line cut	RW	F9	380	1	0	Z	T 9
Detectors Line Short	RX	FA	380	1	0	Z	R 9
Detectors Line Restore	RY	FB	380	3	0	Z	T B
Low Voltage	RZ	D4	308	1	0	Z	R B
Low Voltage Restore	SA	FD	308	3	0	Z	S B
Parameters Error	SB	FC	304	1	0	Z	S B
Communication Failure	SC	D5	350	1	0	Z	S B
SD Manual Toot	SD	FF	616	1	0	Z	S B
Manual Test	SE	D9	601	1	0	Z	S B
Auto Test Remote Test	SF SG	DA DB	602 601	1	0	Z Z	S B X 25
GSM Problem	SH	DC	351	1	0	Z Z	T 9
Wireless Unit Problem	SI	E0	143	1	0	Z	S B
Pre-Alarm	SJ	DD	138	1	0	Z	S B
Bypass Zone	SK	83	570	1	0	Z	S B
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Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELLIRCN
False Code	SL	D8	421	1	0	Z	A 102
Hold-Up	SM	E3	121	1	0	Z	ТВ
Panic	SN	E4	120	1	0	Z	T 9
Fire	SO	E5	110	1	0	Z	ТВ
Temperature	SP	E6	159	1	0	Z	S B
Humidity	SQ	E7	150	1	0	Z	S B
SR	SR	EB	616	1	0	Z	S B
Upload/Download	SS	E9	412	1	0	Z	S B
ST	ST	EA	616	1	0	Z	CE
Shock Detector	SU	E8	376	1	0	Z	X 25
General Alarm	SV	EC	140	1	0	Z	X 25
Reset	SW	ED	140	3	0	Z	X 25
Test	SX	EE	600	1	0	Z	A 100
Arming	SY	EF	400	3	0	Z	D
Disarming	SZ	F0	400	1	0	Z	A 102
Zone Fault(AntiMask)	TA	F1	616	1	0	Z	X 25
Medical Alarm	ТВ	EC	616	1	0	Z	X 25
Silent Panic	TC	E4	616	1	0	Z	X 25
Special Fire	TD	E5	616	1	0	Z	X 25
TE	TE	FF	616	1	0	Z	X 25
TF	TF	FF	616	1	0	Z	X 25
TG	TG	FF	616	1	0	Z	X 25
TH	TH	FF	616	1	0	Z	X 25
П	TI	FF	616	1	0	Z	X 25
TJ	TJ	FF	616	1	0	Z	X 25
TK	TK	FF	616	1	0	Z	X 25
TL	TL	FF	616	1	0	Z	X 25
TM	TM	FF	616	1	0	Z	X 25
Repeater Failure	TN	F3	616	1	0	Z	X 25
TO	TO	FF	616	1	0	Z	X 25
Tamper 2 Alarm	TP	C5	137	1	0	Z	X 25
Tamper 2 Restore	TQ	C6	137	3	0	Z	X 25
Listen In To Follow	TR	FF	606	1	0	Z	X 25

^{*1 =} E, 3 = R (CID depend of rs232 protocol)

NPAF/EPAF

NPAF & EPAF events are the same, until the event "Listen-In To Follow" (Code TR)

Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELL IRCN
Alarm Zone 1	AA	00	130	1	1	В	A 1
Alarm Zone 2	AB	01	130	1	2	4	A 2
Alarm Zone 3	AC	02	130	1	3	9	A 3
Alarm Zone 4	AD	03	130	1	4	9	A 4
Alarm Zone 5	AE	04	130	1	5	Е	A 5
Alarm Zone 6	AF	05	130	1	6	6	A 6
Alarm Zone 7	AG	06	130	1	7	5	A 7
Alarm Zone 8	AH	07	130	1	8	4	A 8
Alarm Zone 9	AI	08	130	1	9	4	A 9
Alarm Zone 10	AJ	09	130	1	10	4	A 10
Alarm Zone 11	AK	0A	130	1	11	4	A 11
Alarm Zone 12	AL	0B	130	1	12	4	A 12
Alarm Zone 13	AM	0C	130	1	13	4	A 13
Alarm Zone 14	AN	0D	130	1	14	4	A 14
Alarm Zone 15	AO	0E	130	1	15	4	A 15
Alarm Zone 16	AP	0F	130	1	16	4	A 16
Alarm Zone 17	AQ	10	130	1	17	4	A 16
Alarm Zone 18	AR	11	130	1	18	5	A 16
Alarm Zone 19	AS	12	130	1	19	4	A 16
Alarm Zone 20	AT	13	130	1	20	4	A 16
Alarm Zone 21	AU	14	130	1	21	С	A 16
Alarm Zone 22	AV	15	130	1	22	0	A 16
Alarm Zone 23	AW	16	130	1	23	F	A 16
Alarm Zone 24	AX	17	130	1	24	F	A 16
Alarm Zone 25	AY	18	130	1	25	F	A 16
Alarm Zone 26	AZ	19	130	1	26	0	A 16
Alarm Zone 27	BA	1A	130	1	27	0	A 16
Alarm Zone 28	BB	1B	130	1	28	0	A 16
Alarm Zone 29	BC	1C	130	1	29	0	A 16
Alarm Zone 30	BD	1D	130	1	30	0	A 16
Alarm Zone 31	BE	1E	130	1	31	0	A 16
Alarm Zone 32	BF	1F	130	1	32	0	A 16
Alarm Zone 33	BG	20	130	1	33	С	A 16
Alarm Zone 34	BH	20	130	1	34	С	A 16
Alarm Zone 35	BI	20	130	1	35	D	A 16
Alarm Zone 36	BJ	20	130	1	36	4	A 16
Alarm Zone 37	BK	20	130	1	37	4	A 16
Alarm Zone 38	BL	20	130	1	38	7	A 16
Alarm Zone 39	BM	20	130	1	39	7	A 16

Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELL IRCN
Alarm Zone 40	BN	20	130	1	40	7	A 16
Alarm Zone 41	ВО	20	130	1	41	7	A 16
Alarm Zone 42	BP	20	130	1	42	7	A 16
Alarm Zone 43	BQ	20	130	1	43	В	A 16
Alarm Zone 44	BR	20	130	1	44	F	A 16
Alarm Zone 45	BS	20	130	1	45	Α	A 16
Alarm Zone 46	BT	20	130	1	46	8	A 16
Alarm Zone 47	BU	20	130	1	47	4	A 16
Alarm Zone 48	BV	20	130	1	48	0	A 16
Alarm Zone 49	BW	20	130	1	49	0	A 16
Alarm Zone 50	BX	20	130	1	50	0	A 16
Alarm Zone 51	BY	20	130	1	51	0	A 16
Alarm Zone 52	BZ	20	130	1	52	0	A 16
Alarm Zone 53	CA	20	130	1	53 54	0	A 16
Alarm Zone 54 Alarm Zone 55	CB CC	20 20	130 130	1	54 55	4	A 16 A 16
Alarm Zone 56	CD	20	130	1	56	4	A 16
Alarm Zone 57	CE	20	130	1	57	4	A 16
Alarm Zone 58	CF	20	130	1	58	4	A 16
Alarm Zone 59	CG	20	130	1	59	4	A 16
Alarm Zone 60	CH	20	130	1	60	0	A 16
Alarm Zone 61	CI	20	130	1	61	0	A 16
Alarm Zone 62	CJ	20	130	1	62	0	A 16
Alarm Zone 63	CK	20	130	1	63	0	A 16
Alarm Zone 64	CL	20	130	1	64	0	A 16
Alarm Zone 65	CM	20	130	1	65	0	A 16
Alarm Zone 66	CN	20	130	1	66	0	A 16
Alarm Zone 67	CO	20	130	1	67	0	A 16
Alarm Zone 68	СР	20	130	1	68	0	A 16
Alarm Zone 69	CQ	20	130	1	69	0	A 16
Alarm Zone 70	CR	20	130	1	70	0	A 16
Alarm Zone 71	CS	20	130	1	71	0	A 16
Alarm Zone 72	СТ	20	130	1	72	0	A 16
Alarm Zone 73	CU	20	130	1	73	0	A 16
Alarm Zone 74	CV	20	130	1	74	0	A 16
Alarm Zone 75	CW	20	130	1	75	0	A 16
Alarm Zone 76	CX	20	130	1	76	0	A 16
Alarm Zone 77	CY	20	130	1	77	0	A 16
Alarm Zone 78	CZ	20	130	1	78	0	A 16
Alarm Zone 79	DA	20	130	1	79	0	A 16
Alarm Zone 80	DB	20	130	1	80	0	A 16
Alarm Zone 81	DC	20 20	130	1	81 82	0	A 16 A 16
Alarm Zone 82 Alarm Zone 83	DD DE	20	130 130	1	83	0	A 16 A 16
Alarm Zone 84	DF	20	130	1	84	0	A 16
Alarm Zone 85	DG	20	130	1	85	0	A 16
Alarm Zone 86	DH	20	130	1	86	0	A 16
Alarm Zone 87	DI	20	130	1	87	0	A 16
Alarm Zone 88	DJ	20	130	1	88	0	A 16
Alarm Zone 89	DK	20	130	1	89	0	A 16
Alarm Zone 90	DL	20	130	1	90	0	A 16
Alarm Zone 91	DM	20	130	1	91	0	A 16
Alarm Zone 92	DN	20	130	1	92	0	A 16
Alarm Zone 93	DO	20	130	1	93	0	A 16
Alarm Zone 94	DP	20	130	1	94	0	A 16
Alarm Zone 95	DQ	20	130	1	95	0	A 16
Alarm Zone 96	DR	20	130	1	96	0	A 16
Zone Reset 1	DS	21	130	3	1	В	R 1
Zone Reset 2	DT	22	130	3	2	4	R 2
Zone Reset 3	DU	23	130	3	3	9	R 3
Zone Reset 4	DV	24	130	3	4	9	R 4
Zone Reset 5	DW	25	130	3	5	E	R 5
Zone Reset 6	DX	26	130	3	6	6	R 6
Zone Reset 7	DY	27	130	3	7	5	R 7
Zone Reset 8	DZ	28	130	3	8	4	R 8
Zone Reset 9	EA	29	130	3	9	4	R 9
Zone Reset 10	EB	2A	130	3	10	4	R 10
Zone Reset 11	EC	2B	130	3	11	4	R 11
Zone Reset 12	ED	2C	130	3	12	4	R 12
Zone Reset 13	EE	2D	130	3	13	4	R 13
Zone Reset 14	EF	2E	130	3	14	4	R 14
Zone Reset 15	EG	2F	130 130	3	15	4	R 15 R 16
Zone Reset 16	EH	30		3	16		
Zone Reset 17 Zone Reset 18	EI EJ	31 32	130 130	3	17 18	4 5	R 16 R 16
Zone Reset 18 Zone Reset 19	EK		130		18	4	
Zone Reset 19 Zone Reset 20	EL	33 34	130	3	20	4	R 16 R 16
Zone Reset 21	EM	34 35	130	3	20	C C	R 16
Zone Reset 22	EN	36	130	3	22	0	R 16
Zone Reset 23	EO	37	130	3	23	F	R 16
Zone Reset 24	EP	38	130	3	24	F	R 16
Zone Reset 25	EQ	39	130	3	25	F	R 16
Zone Reset 26	ER	39 3A	130	3	26	0	R 16
Zone Reset 27	ES	3B	130	3	27	0	R 16
Zone Reset 28	ET	3C	130	3	28	0	R 16
Zone Reset 29	EU	3D	130	3	29	0	R 16
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Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELL IRCN
Zone Reset 30	EV	3E	130	3	30	0	R 16
Zone Reset 31	EW	3F	130	3	31	0	R 16
Zone Reset 32	EX	40	130	3	32	0	R 16
Zone Reset 33	EY	41	130	3	33	C	R 16
Zone Reset 34	EZ	41	130	3	34	C	R 16
Zone Reset 35	FA	41	130	3	35	D	R 16
Zone Reset 36	FB	41	130	3	36	4	R 16
Zone Reset 37	FC	41	130	3	37	4	R 16
Zone Reset 38	FD	41	130	3	38	7	R 16
Zone Reset 39	FE	41	130	3	39	7	R 16
Zone Reset 40	FF	41	130	3	40	7	R 16
Zone Reset 41	FG	41	130	3	41	7	R 16
	_			-			
Zone Reset 42	FH	41	130	3	42	7	R 16
Zone Reset 43	FI	41	130	3	43	В	R 16
Zone Reset 44	FJ	41	130	3	44	F	R 16
Zone Reset 45	FK	41	130	3	45	Α	R 16
Zone Reset 46	FL	41	130	3	46	8	R 16
Zone Reset 47	FM	41	130	3	47	4	R 16
Zone Reset 48	FN	41	130	3	48	0	R 16
Zone Reset 49	FO	41	130	3	49	0	R 16
Zone Reset 50	FP	41	130	3	50	0	R 16
Zone Reset 51	FQ	41	130	3	51	0	R 16
Zone Reset 52	FR	41	130	3	52	0	R 16
Zone Reset 53	FS	41	130	3	53	0	R 16
Zone Reset 54	FT	41	130	3	54	0	R 16
Zone Reset 55	FU	41	130	3	55	4	R 16
Zone Reset 56	FV	41	130	3	56	4	R 16
Zone Reset 57	FW	41	130	3	57	4	R 16
Zone Reset 58	FX	41	130	3	58	4	R 16
Zone Reset 59	FY	41	130	3	59	4	R 16
Zone Reset 60	FZ	41	130	3	60	0	R 16
Zone Reset 61	GA	41	130	3	61	0	R 16
Zone Reset 62	GB	41	130	3	62	0	R 16
Zone Reset 63				3		0	R 16
Zone Reset 63 Zone Reset 64	GC GD	41 41	130 130	3	63 64	0	R 16
						-	
Zone Reset 65	GE	41	130	3	65	0	R 16
Zone Reset 66	GF	41	130	3	66	0	R 16
Zone Reset 67	GG	41	130	3	67	0	R 16
Zone Reset 68	GH	41	130	3	68	0	R 16
Zone Reset 69	GI	41	130	3	69	0	R 16
Zone Reset 70	GJ	41	130	3	70	0	R 16
Zone Reset 71	GK	41	130	3	71	0	R 16
Zone Reset 72	GL	41	130	3	72	0	R 16
Zone Reset 73	GM	41	130	3	73	0	R 16
Zone Reset 74	GN	41	130	3	74	0	R 16
Zone Reset 75	GO	41	130	3	75	0	R 16
Zone Reset 76	GP	41	130	3	76	0	R 16
Zone Reset 77	GQ	41	130	3	77	0	R 16
Zone Reset 78	GR	41	130	3	78	0	R 16
Zone Reset 79	GS	41	130	3	79	0	R 16
Zone Reset 80	GT	41	130	3	80	0	R 16
Zone Reset 81	GU	41	130	3	81	0	R 16
Zone Reset 82	GV	41	130	3	82	0	R 16
Zone Reset 83	GW	41	130	3	83	0	R 16
Zone Reset 84	GX	41	130	3	84	0	R 16
Zone Reset 85	GY	41	130	3	85	0	R 16
Zone Reset 86	GZ	41	130	3	86	0	R 16
Zone Reset 87	HA	41	130	3	87	0	R 16
Zone Reset 88	НВ	41	130	3	88	0	R 16
Zone Reset 89	НС	41	130	3	89	0	R 16
Zone Reset 90	HD	41	130	3	90	0	R 16
Zone Reset 91	HE	41	130	3	91	0	R 16
Zone Reset 92	HF	41	130	3	92	0	R 16
Zone Reset 93	HG	41	130	3	93	0	R 16
Zone Reset 93 Zone Reset 94		41			93	0	
	HH		130	3		-	R 16
Zone Reset 95	HI	41	130	3	95	0	R 16
Zone Reset 96	HJ	41	130	3	96	0	R 16
Zone Failure 1	HK	42	380	1	1	В	T 1
Zone Failure 2	HL	43	380	1	2	4	T 2
Zone Failure 3	HM	44	380	1	3	9	T 3
Zone Failure 4	HN	45	380	1	4	9	T 4
Zone Failure 5	НО	46	380	1	5	E	T 5
Zone Failure 6	HP	47	380	1	6	6	T 6
Zone Failure 7	HQ	48	380	1	7	5	T 7
Zone Failure 8	HR	49	380	1	8	4	T 8
Zone Failure 9	HS	4A	380	1	9	4	T 9
Zone Failure 10	HT	4B	380	1	10	4	T 10
Zone Failure 11	HU	4C	380	1	11	4	T 11
Zone Failure 12	HV	4D	380	1	12	4	T 12
Zone Failure 13	HW	4E	380	1	13	4	T 13
Zone Failure 14	HX	4F	380	1	14	4	T 14
Zone Failure 15	HY	50	380	1	15	4	T 15
Zone Failure 16	HZ	51	380	1	16	4	T 16
Zone Failure 17	IA	52	380	1	17	4	T 16
Zone Failure 18	IB	53	380	1	18	5	T 16
	IC	53 54	380	1	18	4	T 16
Zone Failure 19	IC	2 4	200	1	19	4	1 10

Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELL IRCN
Zone Failure 20	ID	55	380	1	20	4	T 16
Zone Failure 21	IE	56	380	1	21	C	T 16
Zone Failure 22	IF	57	380	1	22	0	T 16
Zone Failure 23	IG	58	380	1	23	F	T 16
Zone Failure 24	IH	59	380	1	24	F	T 16
Zone Failure 25	II	5A	380	1	25	F	T 16
Zone Failure 26	IJ	5B	380	1	26	0	T 16
Zone Failure 27	IK	5C	380	1	27	0	T 16
Zone Failure 28	IL	5D	380	1	28	0	T 16
Zone Failure 29	IM	5E	380	1	29	0	T 16
Zone Failure 30	IN	5F	380	1	30	0	T 16
Zone Failure 31	IO	60	380	1	31	0	T 16
Zone Failure 32	IP	61	380	1	32	0	T 16
Zone Failure 33	IQ	62	380	1	33	С	T 16
Zone Failure 34	IR	62	380	1	34	С	T 16
Zone Failure 35	IS	62	380	1	35	D	T 16
Zone Failure 36	IT	62	380	1	36	4	T 16
Zone Failure 37	IU IV	62	380 380	1	37 38	4	T 16 T 16
Zone Failure 38 Zone Failure 39	IW	62 62	380	1	38	7	T 16 T 16
Zone Failure 40	IX	62	380	1	40	7	T 16
Zone Failure 41	IY	62	380	1	41	7	T 16
Zone Failure 42	IZ	62	380	1	42	7	T 16
Zone Failure 43	JA	62	380	1	43	В	T 16
Zone Failure 44	JB	62	380	1	44	F	T 16
Zone Failure 45	JC	62	380	1	45	A	T 16
Zone Failure 46	JD	62	380	1	46	8	T 16
Zone Failure 47	JE	62	380	1	47	4	T 16
Zone Failure 48	JF	62	380	1	48	0	T 16
Zone Failure 49	JG	62	380	1	49	0	T 16
Zone Failure 50	JH	62	380	1	50	0	T 16
Zone Failure 51	JI	62	380	1	51	0	T 16
Zone Failure 52	JJ	62	380	1	52	0	T 16
Zone Failure 53	JK	62	380	1	53	0	T 16
Zone Failure 54	JL	62	380	1	54	0	T 16
Zone Failure 55	JM	62	380	1	55	4	T 16
Zone Failure 56	JN	62	380	1	56	4	T 16
Zone Failure 57	JO	62	380	1	57	4	T 16
Zone Failure 58	JP	62	380	1	58	4	T 16
Zone Failure 59	JQ	62	380	1	59	4	T 16
Zone Failure 60	JR	62	380	1	60	0	T 16
Zone Failure 61	JS	62	380	1	61	0	T 16
Zone Failure 62 Zone Failure 63	JT JU	62 62	380 380	1	62 63	0	T 16 T 16
Zone Failure 64	JV	62	380	1	64	0	T 16
Zone Failure 65	JW	62	380	1	65	0	T 16
Zone Failure 66	JX	62	380	1	66	0	T 16
Zone Failure 67	JY	62	380	1	67	0	T 16
Zone Failure 68	JZ	62	380	1	68	0	T 16
Zone Failure 69	KA	62	380	1	69	0	T 16
Zone Failure 70	KB	62	380	1	70	0	T 16
Zone Failure 71	KC	62	380	1	71	0	T 16
Zone Failure 72	KD	62	380	1	72	0	T 16
Zone Failure 73	KE	62	380	1	73	0	T 16
Zone Failure 74	KF	62	380	1	74	0	T 16
Zone Failure 75	KG	62	380	1	75	0	T 16
Zone Failure 76	KH	62	380	1	76	0	T 16
Zone Failure 77	KI	62	380	1	77	0	T 16
Zone Failure 78	KJ	62	380	1	78	0	T 16
Zone Failure 79	KK	62	380	1	79	0	T 16
Zone Failure 80	KL	62	380	1	80	0	T 16
Zone Failure 81	KM	62	380	1	81	0	T 16
Zone Failure 82	KN	62	380	1	82	0	T 16
Zone Failure 83	KO	62	380	1	83	0	T 16
Zone Failure 84 Zone Failure 85	KP KQ	62 62	380 380	1	84 85	0	T 16 T 16
Zone Failure 86	_		380	1	86	0	T 16
Zone Failure 86 Zone Failure 87	KR KS	62 62	380	1	87	0	T 16
Zone Failure 88	KT	62	380	1	88	0	T 16
Zone Failure 89	KU	62	380	1	89	0	T 16
Zone Failure 90	KV	62	380	1	90	0	T 16
Zone Failure 91	KW	62	380	1	91	0	T 16
Zone Failure 92	KX	62	380	1	92	0	T 16
Zone Failure 93	KY	62	380	1	93	0	T 16
Zone Failure 94	KZ	62	380	1	94	0	T 16
Zone Failure 95	LA	62	380	1	95	0	T 16
Zone Failure 96	LB	62	380	1	96	0	T 16
Zone Bypass 1	LC	63	570	1	1	В	X 25
Zone Bypass 2	LD	64	570	1	2	4	X 25
Zone Bypass 3	LE	65	570	1	3	9	X 25
Zono Punace 4	LF	66	570	1	4	9	X 25
Zone Bypass 4				1	5	Е	X 25
Zone Bypass 5	LG	67	570			_	
Zone Bypass 5 Zone Bypass 6	LG LH	68	570	1	6	6	X 25
Zone Bypass 5 Zone Bypass 6 Zone Bypass 7	LH LI		570 570	1 1	6 7	6 5	X 25 X 25
Zone Bypass 5 Zone Bypass 6	LH	68	570	1	6	6	X 25

Description Zone Bypass 10 Zone Bypass 11 Zone Bypass 12 Zone Bypass 13 Zone Bypass 14 Zone Bypass 15 Zone Bypass 15 Zone Bypass 16	LL LM LN LO	6C 6D	570 570	CID alarm*	10	ELL 4	X 25
Zone Bypass 11 Zone Bypass 12 Zone Bypass 13 Zone Bypass 14 Zone Bypass 15	LN	-	570	1	11	_	
Zone Bypass 12 Zone Bypass 13 Zone Bypass 14 Zone Bypass 15						4	X 25
Zone Bypass 13 Zone Bypass 14 Zone Bypass 15	10	6E	570	1	12	4	X 25
Zone Bypass 14 Zone Bypass 15		6F	570	1	13	4	X 25
Zone Bypass 15	LP	70	570	1	14	4	X 25
	LQ	71	570	1	15	4	X 25
	LR	72	570	1	16	4	X 25
Zone Bypass 17	LS	73	570	1	17	4	X 25
Zone Bypass 18	LT	74	570	1	18	5	X 25
Zone Bypass 19	LU LU	75	570	1	19	4	X 25
Zone Bypass 20	LV	76	570	1	20	4	X 25
Zone Bypass 21	LW	77	570	1	21	C	X 25
Zone Bypass 22	LX	78	570	1	22	0	X 25
Zone Bypass 23	LY	79	570	1	23	F	X 25
Zone Bypass 24	LZ	75 7A	570	1	24	F	X 25
Zone Bypass 25	MA	7A 7B	570	1	25	F	X 25
	MB	7C	570	1	26	0	X 25
Zone Bypass 26	MC				27	0	
Zone Bypass 27	-	7D	570	1		-	X 25
Zone Bypass 28	MD	7E	570	1	28	0	X 25
Zone Bypass 29	ME	7F	570	1	29	0	X 25
Zone Bypass 30	MF	80	570	1	30	0	X 25
Zone Bypass 31	MG	81	570	1	31	0	X 25
Zone Bypass 32	MH	82	570	1	32	0	X 25
Zone Bypass 33	MI	83	570	1	33	С	X 25
Zone Bypass 34	MJ	83	570	1	34	С	X 25
Zone Bypass 35	MK	83	570	1	35	D	X 25
Zone Bypass 36	ML	83	570	1	36	4	X 25
Zone Bypass 37	MM	83	570	1	37	4	X 25
Zone Bypass 38	MN	83	570	1	38	7	X 25
Zone Bypass 39	MO	83	570	1	39	7	X 25
Zone Bypass 40	MP	83	570	1	40	7	X 25
Zone Bypass 41	MQ	83	570	1	41	7	X 25
Zone Bypass 42	MR	83	570	1	42	7	X 25
Zone Bypass 43	MS	83	570	1	43	В	X 25
Zone Bypass 44	MT	83	570	1	44	F	X 25
Zone Bypass 45	MU	83	570	1	45	A	X 25
Zone Bypass 46	MV	83	570	1	46	8	X 25
	MW	83	570	1	47	4	X 25
Zone Bypass 47							
Zone Bypass 48	MX	83	570	1	48	0	X 25
Zone Bypass 49	MY	83	570	1	49	0	X 25
Zone Bypass 50	MZ	83	570	1	50	0	X 25
Zone Bypass 51	NA	83	570	1	51	0	X 25
Zone Bypass 52	NB	83	570	1	52	0	X 25
Zone Bypass 53	NC	83	570	1	53	0	X 25
Zone Bypass 54	ND	83	570	1	54	0	X 25
Zone Bypass 55	NE	83	570	1	55	4	X 25
Zone Bypass 56	NF	83	570	1	56	4	X 25
Zone Bypass 57	NG	83	570	1	57	4	X 25
Zone Bypass 58	NH	83	570	1	58	4	X 25
Zone Bypass 59	NI	83	570	1	59	4	X 25
Zone Bypass 60	NJ	83	570	1	60	0	X 25
Zone Bypass 61	NK	83	570	1	61	0	X 25
Zone Bypass 62	NL	83	570	1	62	0	X 25
Zone Bypass 63	NM	83	570	1	63	0	X 25
Zone Bypass 64	NN	83	570	1	64	0	X 25
Zone Bypass 65	NO	83	570	1	65	0	X 25
Zone Bypass 66	NP	83	570	1	66	0	X 25
Zone Bypass 67	NQ	83	570	1	67	0	X 25
Zone Bypass 68	NR	83	570	1	68	0	X 25
Zone Bypass 69	NS	83	570	1	69	0	X 25
Zone Bypass 70	NT	83	570	1	70	0	X 25
Zone Bypass 71	NU	83	570	1	71	0	X 25
Zone Bypass 72	NV	83	570	1	72	0	X 25
Zone Bypass 73	NW	83	570	1	73	0	X 25
Zone Bypass 74	NX	83	570	1	74	0	X 25
Zone Bypass 75	NY	83	570	1	75	0	X 25
Zone Bypass 76	NZ	83	570	1	76	0	X 25
Zone Bypass 77	OA	83	570	1	77	0	X 25
Zone Bypass 78	OB	83	570	1	78	0	X 25 X 25
Zone Bypass 79	OC	83	570	1	78	0	X 25 X 25
	OD	83	570	1	80	0	X 25 X 25
Zone Bypass 80	OE	83	570		81	0	X 25 X 25
Zone Bypass 81				1			
Zone Bypass 82	OF OC	83	570	1	82	0	X 25
Zone Bypass 83	OG	83	570	1	83	0	X 25
Zone Bypass 84	OH	83	570	1	84	0	X 25
Zone Bypass 85	OI	83	570	1	85	0	X 25
Zone Bypass 86	OJ	83	570	1	86	0	X 25
Zone Bypass 87	OK	83	570	1	87	0	X 25
Zone Bypass 88	OL	83	570	1	88	0	X 25
Zone Bypass 89	OM	83	570	1	89	0	X 25
Zone Bypass 90	ON	83	570	1	90	0	X 25
Zone Bypass 91	00	83	570	1	91	0	X 25
Zone Bypass 92	OP	83	570	1	92	0	X 25
Zone Bypass 93	OQ	83	570	1	93	0	X 25
Zone Bypass 94	OR	83	570	1	94	0	X 25
Zone Bypass 95	OS	83	570	1	95	0	X 25

Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELL IRCN
Zone Bypass 96	OT	83	570	1	96	0	X 25
Arming Master Code	OU	84	400	3	0	A	С
Arming User 1 Arming User 2	OV OW	85 86	401 401	3	1 2	A A	C
Arming User 3	OX	87	401	3	3	A	C
Arming User 4	OY	88	401	3	4	A	C
Arming User 5	OZ	89	401	3	5	Α	C
Arming User 6	PA	8A	401	3	6	Α	С
Arming User 7	PB	8B	401	3	7	Α	С
Arming User 8	PC	8C	401	3	8	Α	С
Arming User 9	PD	8D	401	3	9	A	С
Arming User 10	PE PF	8E 8F	401 401	3	10 11	A A	C
Arming User 11 Arming User 12	PG	90	401	3	11 12	A	C
Arming User 13	PH	91	401	3	13	A	C
Arming User 14	PI	92	401	3	14	A	C
Arming User 15	PJ	93	401	3	15	Α	С
Arming User 16	PK	93	401	3	16	Α	С
Arming User 17	PL	93	401	3	17	Α	С
Arming User 18	PM	93	401	3	18	A	С
Arming User 19 Arming User 20	PN PO	93 93	401 401	3	19 20	A A	C
Arming Oser 20 Arming Short Code	PP	94	401	3	0	A	X 25
Arming Temporary Code	PQ	95	400	3	0	A	X 25
Auto Arming	PR	EF	403	3	0	Α	X 25
Key Switch Arming	PS	97	409	3	0	Α	X 25
Home Master Code	PT	99	400	3	0	Α	X 25
Home User 1	PU	9A	401	3	1	A	С
Home User 2	PV	9B	401	3	2	A	С
Home User 3 Home User 4	PW PX	9C 9D	401 401	3	3 4	A A	C
Home User 5	PX	9D 9E	401	3	5	A	C
Home User 6	PZ	9F	401	3	6	A	C
Home User 7	QA	A0	401	3	7	Α	C
Home User 8	QB	A1	401	3	8	Α	С
Home User 9	QC	A2	401	3	9	Α	С
Home User 10	QD	A3	401	3	10	Α	С
Home User 11	QE	A4	401	3	11	A	С
Home User 12 Home User 13	QF	A5 A6	401 401	3	12 13	A A	C
Home User 14	QG QH	AO A7	401	3	14	A	C
Home User 15	QI	A8	401	3	15	A	C
Home User 16	QJ	A8	401	3	16	Α	C
Home User 17	QK	A8	401	3	17	Α	С
Home User 18	QL	A8	401	3	18	Α	С
Home User 19	QM	A8	401	3	19	Α	С
Home User 20	QN	A8	401	3	20	A	C
Home Short Code Home Temporary Code	QO QP	A9 AA	408 400	3	0	A A	X 25 X 25
Auto Home	QQ	EF	403	3	0	A	X 25
Key Switch Home	QR	AC	409	3	0	A	X 25
Disarming Master Code	QS	AE	400	1	0	8	C
Disarming User 1	QT	AF	401	1	1	8	С
Disarming User 2	QU	В0	401	1	2	8	С
Disarming User 3	QV	B1	401	1	3	8	С
Disarming User 4	QW	B2	401	1	4	8	С
Disarming User 5 Disarming User 6	QX QY	B3 B4	401 401	1	5 6	8 8	C
Disarming User 6 Disarming User 7	QZ QZ	B4 B5	401	1	7	8	C
Disarming User 8	RA	B6	401	1	8	8	C
Disarming User 9	RB	B7	401	1	9	8	Č
Disarming User 10	RC	B8	401	1	10	8	C
Disarming User 11	RD	В9	401	1	11	8	С
Disarming User 12	RE	BA	401	1	12	8	С
Disarming User 13	RF	BB	401	1	13	8	С
Disarming User 14 Disarming User 15	RG RH	BC BD	401 401	1	14 15	8 8	C
Disarming User 15 Disarming User 16	RI	BD	401	1	16	8	C
Disarming User 17	RJ	BD BD	401	1	17	8	C
Disarming User 18	RK	BD	401	1	18	8	C
Disarming User 19	RL	BD	401	1	19	8	C
Disarming User 20	RM	BD	401	1	20	8	С
Disarming Tempo Code	RN	BF	400	1	0	8	X 25
Keyswitch Disarming	RO	C1	409	1	0	8	X 25
Disarming Hold-Up	RP	C2	400	1	0	8	X 25
Siren Reset	RQ	C3	130	3	0	Z	R 1
System Start-Up Tamper Open	RR RS	C4 C5	625 137	1	0	Z Z	R 9 C E
Tamper Close	RT	C6	137	3	0	Z	CE
AC Fail	RU	C7	301	1	0	Z	T 0
AC Restore	RV	C8	301	3	0	Z	R 0
Low Battery	RW	C9	302	1	0	Z	T 9
Battery Restore	RX	CA	302	3	0	Z	R 9
Telephone Line Fail	RY	CB	351	1	0	Z	ТВ
Telephone Line Restore	RZ	CC	351	3	0	Z	R B
Detector Voltage Fail	SA	CD	312	1	U	Z	S B

Section Color Co	Doccrintion	Code	HEX2DGT	CID event	CID alarm*	CID zono\usor	ELL	ELL IRCN
Signar Fall SC	Description Detector Voltage Restore					CID zone\user		
Siren J Restore				-		-		
Signer 2 Fail SE D1 322 1 0 z S B Phone Report Fail SG D3 350 1 0 z X Z P P P P P P D 2 X Z S B D 2 X Z S B P P D D Z X Z S B D D Z X Z S B D D Z X Z S B D D D Z D X D X D D D C C D						-		
Serior Restore						-		
Dev portions of Fall SH	Siren 2 Restore		D2	322	3	0		
Expansion Carde Fall	Phone Report Fail	SG	D3	350	1	0	Z	X 25
Expansion Carde Restore	Low Voltage Failure	SH	D4	308	1	0	Z	T 9
Keypot Panic SK D7 120 1 0 z S S A 102* Manual Test SM D9 661 1 0 z T A 102* Auto Test SM DA 601 1 0 z T T Triggered Test SD DB 601 1 0 z T T Triggered Test SD DB 601 1 0 z T T Fee Alarm SP DC 351 1 0 z S S DE 183 1 0 z S S B DE 183 1 0 z S S B DE 443 1 0 0 2 S S B 2 2 34 1 0 0 2 X 2 S B 1 0 0 X 2 <	Expansion Cards Fail	SI	D5	143	1	0	Z	S B
Fase Cocle	Expansion Cards Restore	SJ	D6	143	3	0	Z	S B
Manual rest	Keypad Panic	SK	D7	120	1	0	Z	
Auto Tese Sol DA 602 1 0 2 7 9 Triggered Test SO 0 8 601 1 0 2 7 8 SSM Problem SP 0 C 331 1 0 2 8 8 System Inactivity SR 0 DE 654 1 0 0 2 8 8 System Inactivity SR 0 DE 654 1 0 0 2 8 8 System Inactivity SR 0 DE 654 1 0 0 2 8 8 System Inactivity SR 0 DE 654 1 0 0 2 8 8 System Inactivity SR 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 0 DE 654 1 0 0 2 8 8 SW 1	False Code	SL	D8	461	1	0	Z	A 102
Tragement SO	Manual Test	SM	D9	601	1	0	Z	ТВ
SSM Problem		SN	DA	602	1	0	Z	T 9
Pix-Alarm	Triggered Test	SO	DB	601	1	0	Z	ТВ
System Inactivity	GSM Problem	SP	DC	351	1	0	Z	S B
Upload/Download	Pre-Alarm	SQ	DD	138	1	0	Z	S B
Wireless Receiver Fall Wireless Receiver Tamper SV E2 344 1 1 0 7 2 X 25 Hold-Up Fall Fal	System Inactivity	SR	DE	654	1	0	Z	S B
Wireless Receiver Tamper Wireless Wi	Upload/Download	SS	DF	412	1	0	Z	S B
Wireless Receiver Jamming		ST	E0	143	1	0	Z	CE
Hold-Up	Wireless Receiver Tamper	SU	E1	341	1	0	Z	X 25
Panic	Wireless Receiver Jamming	SV	E2	344	1	0	Z	X 25
Fire	Hold-Up	SW	E3	121	1	0	Z	X 25
Temperature	Panic	SX	E4	120	1	0	Z	A 100
TA	Fire	SY	E5	110	1	0	Z	D
TA	Temperature	SZ	E6	159	1	0	Z	A 102
TC		TA	E7	616	1	0	Z	A 102
TD	ТВ	ТВ	E8	616	1	0	Z	CE
TE	TC	TC	E9	616	1	0	Z	CE
Alarm	TD	TD	EA	616	1	0	Z	CE
Alarm	TE	TE	EB	616	1	0	Z	CE
Test	Alarm	TF	EC	140	1	0	Z	CE
Arming		TG		140	3	0		
Disaming	Test	TH	EE	600	1	0	Z	R E
Zane Fail/Anti-Mask	Arming	TI	EF	400	3	0	Α	С
Medical Alarm		TJ	F0	400	1	0	8	0
Medical Alarm	Zone Fail(Anti-Mask)	TK	F1	380	1	0	Z	S B
Repeater Fallure TN F4 616 1 0 z X 25 General Zone Bypass TO F5 616 1 0 z X 25 Tamper 2 Restore TQ C6 137 3 0 z X 25 Tamper 2 Restore TQ C6 137 3 0 z X 25 TS TS FF 606 1 0 z X 25 TT TT FF 616 1 0 z X 25 TT TT FF 616 1 0 z X 25 TV TV FF 616 1 0 z X 25 TW TW FF 616 1 0 z X 25 TW TY FF 616 1 0 z X 25 TW TY FF 616 1 0 z X 25		TL	F2	616	1	0	Z	X 25
General Zone Bypass	Silent Panic	TM	F3	616	1	0	Z	X 25
General Zone Bypass	Repeater Failure	TN	F4	616	1	0	Z	X 25
Tamper 2 Alarm TP CS 137 1 0 z X 25 Tamper 2 Restore TQ C6 137 3 0 z X 25 Ustern-In To Follow TR FF 606 1 0 z X 25 TS TS FF 616 1 0 z X 25 TT TT FF 616 1 0 z X 25 TU TU FF 616 1 0 z X 25 TW TW FF 616 1 0 z X 25 TW TW FF 616 1 0 z X 25 TX TX TX FF 616 1 0 z X 25 TY TY FF 616 1 0 z X 25 TY TY FF 616 1 0 z X 25		TO	F5	616	1	0	Z	X 25
TS		TP	C5	137	1	0	Z	X 25
TS	Tamper 2 Restore	TQ	C6	137	3	0	Z	X 25
TT		TR	FF	606	1	0	Z	X 25
TT				I		I		
TU	TS	TS	FF	616	1	0	Z	X 25
TV	Т	TT	FF	616	1	0	Z	X 25
TW	TU	TU	FF	616	1	0	Z	X 25
TX	TV	TV	FF	616	1	0	Z	X 25
TY	TW	TW	FF	616	1	0	Z	X 25
TZ	TX	TX	FF	616	1	0	Z	X 25
Arming User 21 UA 93 401 3 21 A C Arming User 22 UB 93 401 3 22 A C Arming User 23 UC 93 401 3 22 A C Arming User 24 UD 93 401 3 23 A C Arming User 25 UE 93 401 3 25 A C Arming User 26 UF 93 401 3 25 A C Arming User 27 UG 93 401 3 26 A C Arming User 27 UG 93 401 3 27 A C Arming User 28 UH 93 401 3 27 A C Arming User 29 UI 93 401 3 28 A C Arming User 29 UI 93 401 3 29 A C Arming User 30 UJ 93 401 3 29 A C Arming User 31 UK 93 401 3 32 A C Arming User 32 UL 93 401 3 3 A C Arming User 32 UL 93 401 3 A C Arming User 33 UM 93 401 3 32 A C Arming User 34 UN 93 401 3 3 A C Arming User 35 UO 93 401 3 3 A A C Arming User 36 UP 93 401 3 A C Arming User 37 UO 93 401 3 A C Arming User 38 UN 93 401 3 A C Arming User 39 US 93 401 A C Arming User 30 UJ 93 401 A C Arming User 30 UJ 93 401 A C Arming User 30 UL 93 A A C Arming User 30 UD 93 A A C Arming User 30 UO 93 A A C Arming User 40 UT 93 A A C Arming User 40 UT 93 A A C Arming User 41 UU 93 A A C Arming User 41 UU 93 A A C Arming User 44 UX 93 A A C Arming User 45 UY 93 A A A C Arming User 45 UY 93 A A A C Arming User 46 UZ 93 A A A C Arming User 47 VA 93 A A A C Arming User 48 VB 93 A A A C Arming User 40 UT 93 A A A C Arming User 40 UT 93 A A A C Arming User 40 UT 93 A A A C Arming User 40 UT 93 A A A C Arming User 40 UT 93 A A A A C Arming User 40 UT 93 A A A A C Arming User 40 UT 93 A A A A C Arming User 40 UT 93 A A A A C Arming User 40 UT 93 A A A A A C Arming User 40 UT 93 A A A A A A A A A A A A A A A A A A	TY	TY	FF	616	1	0	Z	X 25
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Arming User 25 UE 93 401 3 25 A C Arming User 26 UF 93 401 3 26 A C Arming User 27 UG 93 401 3 27 A C Arming User 28 UH 93 401 3 27 A C Arming User 28 UH 93 401 3 28 A C Arming User 29 UI 93 401 3 29 A C Arming User 30 UJ 93 401 3 31 A C Arming User 31 UK 93 401 3 31 A C Arming User 32 UL 93 401 3 31 A C Arming User 33 UM 93 401 3 31 A C Arming User 34 UN 93 401 3 33 A A C Arming User 35 UO 93 401 3 33 A A C Arming User 36 UP 93 401 3 35 A C Arming User 37 UQ 93 401 3 35 A C Arming User 38 UR 93 401 3 36 A C Arming User 39 US 93 401 3 38 A A C Arming User 39 US 93 401 3 38 A C Arming User 40 UT 93 401 3 40 A C Arming User 41 UU 93 401 3 41 A C Arming User 44 UX 93 401 3 42 A C Arming User 45 UY 93 401 3 44 A C Arming User 46 UZ 93 401 3 45 A C Arming User 47 VA 93 401 3 45 A C Arming User 48 VB 93 401 3 46 A C Arming User 47 VA 93 401 3 49 A C Arming User 48 VB 93 401 3 49 A C Arming User 49 VC 93 401 3 49 A C Arming User 49 VC 93 401 3 49 A C Arming User 49 VC 93 401 3 49 A C Arming User 49 VC 93 401 3 49 A C Arming User 49 VC 93 401 3 49 A C Arming User 51 VE 93 401 3 52 A C Arming User 52 VF 93 401 3 51 A C Arming User 52 VF 93 401 3 51 A C Arming User 53 VG 93 401 3 51 A C								
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Arming User 34 UN 93 401 3 34 A C Arming User 35 UO 93 401 3 35 A C Arming User 36 UP 93 401 3 36 A C Arming User 37 UQ 93 401 3 37 A C Arming User 38 UR 93 401 3 38 A C Arming User 39 US 93 401 3 39 A C Arming User 40 UT 93 401 3 40 A C Arming User 41 UU 93 401 3 41 A C Arming User 42 UV 93 401 3 41 A C Arming User 43 UW 93 401 3 43 A C Arming User 44 UX 93 401 3 45 A	Arming User 33	UM	93	401			Α	С
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Arming User 43 UW 93 401 3 43 A C Arming User 44 UX 93 401 3 44 A C Arming User 45 UY 93 401 3 45 A C Arming User 46 UZ 93 401 3 46 A C Arming User 47 VA 93 401 3 47 A C Arming User 48 VB 93 401 3 48 A C Arming User 49 VC 93 401 3 49 A C Arming User 50 VD 93 401 3 50 A C Arming User 51 VE 93 401 3 51 A C Arming User 52 VF 93 401 3 52 A C Arming User 53 VG 93 401 3 53 A								
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Arming User 52 VF 93 401 3 52 A C Arming User 53 VG 93 401 3 53 A C		VD	93					
Arming User 53 VG 93 401 3 53 A C	Arming User 50							
	Arming User 50 Arming User 51	VE	93	401	3	51	Α	С
	Arming User 50 Arming User 51 Arming User 52	VE VF	93 93	401 401	3	51 52	A A	C C

Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELL IRCN
Arming User 55	VI	93	401	3	55	Α	C
Arming User 56	VJ	93	401	3	56	Α	С
Arming User 57	VK	93	401	3	57	Α	С
Arming User 58	VL	93	401	3	58	Α	С
Arming User 59	VM	93	401	3	59	Α	С
Arming User 60	VN	93	401	3	60	Α	С
Arming User 61	VO	93	401	3	61	Α	С
Arming User 62	VP	93	401	3	62	Α	С
Arming User 63	VQ	93	401	3	63	A	С
Arming User 64	VR VS	93 93	401 401	3 3	64	A	С
Arming User 65 Arming User 66	VS	93	401	3	65 66	A	C
Arming User 67	VU	93	401	3	67	A	C
Arming User 68	VV	93	401	3	68	A	C
Arming User 69	VW	93	401	3	69	A	C
Arming User 70	VX	93	401	3	70	A	Č
Arming User 71	VY	93	401	3	71	A	Č
Arming User 72	VZ	93	401	3	72	Α	С
Arming User 73	WA	93	401	3	73	Α	С
Arming User 74	WB	93	401	3	74	Α	С
Arming User 75	WC	93	401	3	75	Α	С
Arming User 76	WD	93	401	3	76	Α	С
Arming User 77	WE	93	401	3	77	Α	С
Arming User 78	WF	93	401	3	78	Α	С
Arming User 79	WG	93	401	3	79	Α	С
Arming User 80	WH	93	401	3	80	Α	С
Arming User 81	WI	93	401	3	81	Α	С
Arming User 82	WJ	93	401	3	82	A	С
Arming User 83	WK	93	401	3	83	Α	С
Arming User 84	WL	93	401	3	84	A	С
Arming User 85	WM	93	401	3	85	A	С
Arming User 86 Arming User 87	WN	93 93	401 401	3	86 87	A	C
3	WP	93	401	3	88	A	
Arming User 88 Arming User 89		93	401	3	89	A	С
Arming User 90	WQ WR	93	401	3	90	A	C
Arming User 91	WS	93	401	3	90	A	C
Arming User 92	WT	93	401	3	92	A	C
Arming User 93	WU	93	401	3	93	A	C
Arming User 94	WV	93	401	3	94	Ä	C
Arming User 95	WW	93	401	3	95	A	Č
Arming User 96	WX	93	401	3	96	A	C
Spare	WY	FF	616	1	0	Z	X 25
Spare	WZ	FF	616	1	0	Z	X 25
Disarming User 21	YA	BD	401	1	21	8	С
Disarming User 22	YB	BD	401	1	22	8	С
Disarming User 23	YC	BD	401	1	23	8	С
Disarming User 24	YD	BD	401	1	24	8	С
Disarming User 25	YE	BD	401	1	25	8	С
Disarming User 26	YF	BD	401	1	26	8	С
Disarming User 27	YG	BD	401	1	27	8	С
Disarming User 28	YH	BD	401	1	28	8	С
Disarming User 29	ΥI	BD	401	1	29	8	С
Disarming User 30	YJ	BD	401	1	30	8	С
Disarming User 31	YK	RD	401	1	31	8	C
Disarming User 32	YL	BD	401	1	32	8	С
Disarming User 33	YM YN	BD BD	401 401	1	33 34	8	С
Disarming User 34 Disarming User 35	YN	BD BD	401	1	34 35	8	C
Disarming User 35	YP YP	BD BD	401	1	35	8	C
Disarming User 37	YQ	BD	401	1	37	8	C
Disarming User 38	YR	BD	401	1	38	8	C
Disarming User 39	YS	BD	401	1	39	8	C
Disarming User 40	YT	BD	401	1	40	8	Č
Disarming User 41	YU	BD	401	1	41	8	Č
Disarming User 42	YV	BD	401	1	42	8	Č
Disarming User 43	YW	BD	401	1	43	8	C
Disarming User 44	YX	BD	401	1	44	8	C
Disarming User 45	YY	BD	401	1	45	8	C
Disarming User 46	YZ	BD	401	1	46	8	С
Disarming User 47	ZA	BD	401	1	47	8	С
Disarming User 48	ZB	BD	401	1	48	8	С
Disarming User 49	ZC	BD	401	1	49	8	С
Disarming User 50	YD	BD	401	1	50	8	С
Disarming User 51	ZE	BD	401	1	51	8	С
Disarming User 52	ZF	BD	401	1	52	8	С
Disarming User 53	ZG	BD	401	1	53	8	С
Disarming User 54	ZH	BD	401	1	54	8	С
Disarming User 55	ZI	BD	401	1	55	8	С
Disarming User 56	ZJ 7V	BD	401	1	56	8	С
Disarming User 57	ZK	BD	401	1	57	8	С
Disarming User 58 Disarming User 59	ZL ZM	BD BD	401 401	1	58 59	8	C
Disarming User 60	ZN	BD BD	401	1	60	8	C
Disarming User 61	ZO	BD BD	401	1	61	8	C
Disarming User 62	ZP	BD BD	401	1	62	8	C
g 03ci 02		55	101	•	V2		, v

Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELL IRCN
Disarming User 63	ZQ	BD	401	1	63	8	C
Disarming User 64	ZR	BD	401	1	64	8	Č
Disarming User 65	ZS	BD	401	1	65	8	C
Disarming User 66	ZT	BD	401	1	66	8	Č
Disarming User 67	ZU	BD	401	1	67	8	Č
Disarming User 68	ZV	BD	401	1	68	8	C
Disarming User 69	ZW	BD	401	1	69	8	C
Disarming User 70	ZX	BD	401	1	70	8	C
Disarming User 71	ZY	BD	401	1	71	8	C
Disarming User 72	ZZ	BD	401	1	72	8	C
Disarming User 73	0	BD	401	1	73	8	C
Disarming User 74	1	BD	401	1	73	8	C
•	2	BD BD	-		74 75	8	-
		BD BD	401 401	1	75 76	-	С
Disarming User 76	3		-	1	-	8	С
Disarming User 77	4	BD	401	1	77	8	С
Disarming User 78	5	BD	401	1	78	8	С
Disarming User 79	6	BD	401	1	79	8	С
Disarming User 80	7	BD	401	1	80	8	С
Disarming User 81	8	BD	401	1	81	8	С
Disarming User 82	9	BD	401	1	82	8	С
Disarming User 83	10	BD	401	1	83	8	С
Disarming User 84	11	BD	401	1	84	8	С
Disarming User 85	12	BD	401	1	85	8	С
Disarming User 86	13	BD	401	1	86	8	С
Disarming User 87	14	BD	401	1	87	8	С
Disarming User 88	15	BD	401	1	88	8	С
Disarming User 89	16	BD	401	1	89	8	С
Disarming User 90	17	BD	401	1	90	8	С
Disarming User 91	18	BD	401	1	91	8	C
Disarming User 92	19	BD	401	1	92	8	Č
Disarming User 93	20	BD	401	1	93	8	Č
Disarming User 94	21	BD	401	1	94	8	Č
Disarming User 95	22	BD	401	1	95	8	C
Disarming User 96	23	BD	401	1	96	8	Č
Zone Expander Fault 1	24	FE	333	1	1	z	X 25
Zone Expander Fault 2	25	FE	333	1	2	Z	X 25
Zone Expander Fault 3	26	FE	333	1	3	Z	X 25
	27		333	1	4		X 25
Zone Expander Fault 4	28	FE			5	Z	X 25 X 25
Zone Expander Fault 5		FE	333	1	-	Z	
Zone Expander Fault 6	29	FE	333	1	6	Z	X 25
Zone Expander Fault 7	30	FE	333	1	7	Z	X 25
Zone Expander Fault 8	31	FE	333	1	8	Z	X 25
Zone Expander Fault 9	32	FE	333	1	9	Z	X 25
Zone Expander Fault 10	33	FE	333	1	10	Z	X 25
Zone Expander Fault 11	34	FE	333	1	11	Z	X 25
Zone Expander Fault 12	35	FE	333	1	12	Z	X 25
Zone Expander Fault 13	36	FE	333	1	13	Z	X 25
Zone Expander Fault 14	37	FE	333	1	14	Z	X 25
Zone Expander Fault 15	38	FE	333	1	15	Z	X 25
Zone Expander Fault 16	39	FE	333	1	16	Z	X 25
Zone Expander Restore 1	40	FE	333	3	1	Z	X 25
Zone Expander Restore 2	41	FE	333	3	2	Z	X 25
Zone Expander Restore 3	42	FE	333	3	3	Z	X 25
Zone Expander Restore 4	43	FE	333	3	4	Z	X 25
Zone Expander Restore 5	44	FE	333	3	5	Z	X 25
Zone Expander Restore 6	45	FE	333	3	6	Z	X 25
Zone Expander Restore 7	46	FE	333	3	7	Z	X 25
Zone Expander Restore 8	47	FE	333	3	8	Z	X 25
Zone Expander Restore 9	48	FE	333	3	9	Z	X 25
Zone Expander Restore 10	49	FE	333	3	10	Z	X 25
Zone Expander Restore 11	50	FE	333	3	11	Z	X 25
Zone Expander Restore 12	51	FE	333	3	12	Z	X 25
Zone Expander Restore 13	52	FE	333	3	13	Z	X 25
Zone Expander Restore 14	53	FE	333	3	14	Z	X 25
Zone Expander Restore 15	54	FE	333	3	15	Z	X 25
Zone Expander Restore 16	55	FE	333	3	16	Z	X 25
Keypad Fault 1	56	FE	330	1	10	Z	X 25 X 25
	57	FE	330	1	2		X 25 X 25
Keypad Fault 2 Keypad Fault 3	57	FE	330	1	3	Z	X 25 X 25
,,						Z	
Keypad Fault 4	59	FE	330	1	4	z	X 25
Keypad Fault 5	60	FE	330	1	5	Z	X 25
Keypad Fault 6	61	FE	330	1	6	Z	X 25
Keypad Fault 7	62	FE	330	1	7	Z	X 25
Keypad Fault 8	63	FE	330	1	8	Z	X 25
Keypad Restore 1	64	FE	330	3	1	Z	X 25
Keypad Restore 2	65	FE	330	3	2	Z	X 25
Keypad Restore 3	66	FE	330	3	3	Z	X 25
Keypad Restore 4	67	FE	330	3	4	Z	X 25
Keypad Restore 5	68	FE	330	3	5	Z	X 25
Keypad Restore 6	69	FE	330	3	6	Z	X 25
Keypad Restore 7	70	FE	330	3	7	Z	X 25
	71	FE	330	3	8	Z	X 25
Keypad Restore 8				3	0	Z	X 25
Keypad Restore 8 Wireless Receiver Restore	72	FF	616)			
	72 73	FF FF	616	3	0	Z	X 25
Wireless Receiver Restore							

Description	Code	HEX2DGT	CID event	CID alarm*	CID zone\user	ELL	ELL IRCN
Network Communication	75	FF	616	3	0	Z	X 25
Restore							
Installer On Site	76	FF	616	1	0	Z	X 25
77	77	FF	616	1	0	Z	X 25
78	78	FF	616	1	0	Z	X 25
79	79	FF	616	1	0	Z	X 25
80	80	FF	616	1	0	Z	X 25
81	81	FF	616	1	0	Z	X 25
82	82	FF	616	1	0	Z	X 25
83	83	FF	616	1	0	Z	X 25
84	84	FF	616	1	0	Z	X 25
85	85	FF	616	1	0	Z	X 25
86	86	FF	616	1	0	Z	X 25
87	87	FF	616	1	0	Z	X 25
88	88	FF	616	1	0	Z	X 25
89	89	FF	616	1	0	Z	X 25
90	90	FF	616	1	0	Z	X 25
91	91	FF	616	1	0	Z	X 25
92	92	FF	616	1	0	Z	X 25
93	93	FF	616	1	0	Z	X 25
94	94	FF	616	1	0	Z	X 25
95	95	FF	616	1	0	Z	X 25
96	96	FF	616	1	0	Z	X 25
97	97	FF	616	1	0	Z	X 25
98	98	FF	616	1	0	Z	X 25
Unknown Event	99	FF	616	1	0	Z	X 25

*1 = E, 3 = R (CID depends on RS-232 protocol)

ELL6

Description	Code	HEX2DGT	ELL	ELL IRCN	Atia	Atia ext.	Atia 13489
ALARM ZONE 1	31	31	1	A 1	01	01	A1
ALARM ZONE 2	B5	B5	5	A 2	02	02	A2
ALARM ZONE 3	65	65	5	A 3	03	03	A3
ALARM ZONE 4	E3	E3	3	A 4	04	04	A4
ALARM ZONE 5	73	73	3	A 5	05	05	A5
ALARM ZONE 6	6A	6A	Α	A 6	06	06	A6
ALARM ZONE 7	E9	E9	9	A 7	07	07	A7
ALARM ZONE 8	1C	1C	С	A 8	08	08	A8
ALARM ZONE 9	F1	F1	1	A 9	09	09	A9
ALARM ZONE 10	D8	D8	8	A 10	10	10	AA
ALARM ZONE 11	D7	D7	7	A 11	11	11	AB
ALARM ZONE 12	F8	F8	8	A 12	12	12	AC
ALARM ZONE 13	E5	E5	5	A 13	13	13	AD
ALARM ZONE 14	4	4	4	A 14	14	14	AE
ALARM ZONE 15	53	53	3	A 15	15	15	AF
ALARM ZONE 16	EE	EE	Е	A 16	16	16	AG
RESTORAL ZONE 1	77	77	7	R 1	17	17	R1
RESTORAL ZONE 2	35	35	5	R 2	18	18	R2
RESTORAL ZONE 3	50	50	0	R 3	19	19	R3
RESTORAL ZONE 4	FD	FD	D	R 4	20	20	R4
RESTORAL ZONE 5	86	86	6	R 5	21	21	R5
RESTORAL ZONE 6	4D	4D	D	R 6	22	22	R6
RESTORAL ZONE 7	3B	3B	В	R 7	23	23	R7
RESTORAL ZONE 8	A7	A7	7	R 8	24	24	R8
RESTORAL ZONE 9	55	55	5	R 9	25	25	R9
RESTORAL ZONE 10	4B	4B	В	R 10	26	26	RA
RESTORAL ZONE 11	41	41	1	R 11	27	27	RB
RESTORAL ZONE 12	29	29	9	R 12	28	28	RC
RESTORAL ZONE 13	DE	DE	E	R 13	29	29	RD
RESTORAL ZONE 14	63	63	3	R 14	30	30	RE
RESTORAL ZONE 15	E2	E2	2	R 15	31	31	RF
RESTORAL ZONE 16	D3	D3	3	R 16	32	32	RG
TROUBLE ZONE 1	9A	9A	A	T 1	33	33	T1
TROUBLE ZONE 2	CD	CD	D	T 3	34	34	T2
TROUBLE ZONE 3	E8	E8	8	T 3	35	35	T3
TROUBLE ZONE 4	60	60	0	T 4	36	36	T4
TROUBLE ZONE 5	19	19	9	T 5	37	37	T5
TROUBLE ZONE 6	91	91	1	T 6	38	38	T6
TROUBLE ZONE 7	9D	9D	D	T 7	39	39	T7
TROUBLE ZONE 8	5A	5A	A	T 8	40	40	T8
TROUBLE ZONE 9	5A 5B	5B	В		40	40	T9
TROUBLE ZONE 10	FA	FA	A		42	41	TA
	FA 4E	FA 4E	A E		42	42	
TROUBLE ZONE 11				T 11	43	43 44	TB
TROUBLE ZONE 12	DA	DA	A	T 12			TC
TROUBLE ZONE 13	F4	F4	4	T 13	45	45	TD
TROUBLE ZONE 14	26	26	6	T 14	46	46	TE
TROUBLE ZONE 16	49	49	9	T 16	48	48	TG
AC TROUBLE	40	40	0	T 0	51	51	СТ
LOW BATTERY	80	80	0	T 9	52	52	BL
PHONE #1 TROUBLE	59	59	9	ТВ	53	53	TP
STARTING	7B	7B	В	R 9	55	55	ST
PERIODIC TEST	6E	6E	E	R D	56	56	PT

Description	Code	HEX2DGT	ELL	ELL IRCN	Atia	Atia ext.	Atia 13489
TEST	DC	DC	С	R E	57	57	TS
PENING	EB	EB	В	0	58	58	OP
AC RESTORED	DF	DF	F	R 0	59	59	RN
BATTERY NORMAL	28	28	8	R 9	60	60	BN
EMERGENCY	BD	BD	D	A 101	63	63	EM
FIRE EMERGENCY	3A	3A	Α	A 102	64	64	FE
POLICE EMERGENCY	В3	В3	3	A 100	65	65	PE
CLOSING	FF	FF	F	С	66	66	CL
DURESS	43	43	3	D	67	67	DR
CLOCK CHANGE/RP	1E	1E	Е	S C	69	69	CH
BELL CUTOFF	0F	0F	F	S B	70	70	BC
FORCE CLOSING	81	81	1	C F	71	71	FC
PERIMETR CLOSING	CE	CE	Е	CE	72	72	PC

CID/PID

Description	1	CID/PID	Code	HEX2DGT	ELL	ELL IRCN	Atia*	Atia Ext.*
•	Event	Alarm**	Zone\User					
Medical	100	1	*	64	4	CE	a*	a*
Personal Emergency	101	1	*	65	5	CE	b*	b*
Fail to report in	102	1	*	66	6	C E	c*	c*
Fire	110	1	*	6E	Е	CE	d*	d*
Smoke	111	1	*	6F	F	CE	d*	d*
Combustion	112	1	*	70	0	CE	d*	d*
Water flow	113	1	*	71	1	C E	e*	e*
Heat	114	1	*	72	2	CE	f*	f*
Pull Station	115	1	*	73	3	CE	g*	g*
Duct	116	1	*	74	4	CE	h*	h*
Flame	117	1	*	75	5	CE	d*	d*
			*					
Near Alarm	118	1	*	76	6	C E	i*	i*
Panic	120	1	T	78	8	CE	j*	j*
Duress	121	1	*	79	9	C E	k*	k*
Silent	122	1	*	7A	Α	C E	j*	j*
Audible	123	1	*	7B	В	CE	j*	j*
Medical	100	3	*	64	4	CE	A*	A*
Personal Emergency	101	3	*	65	5	CE	B*	B*
Fail to report in	102	3	*	66	6	CE	C*	C*
Fire	110	3	*	6E	Е	CE	D*	D*
Smoke	111	3	*	6F	F	CE	D*	D*
Combustion	112	3	*	70	0	CE	D*	D*
Water flow	113	3	*	71	1	CE	E*	E*
Heat	114	3	*	72	2	CE	F*	F*
Pull Station	115		*	73		CE	G*	G*
	_	3	*	74	3			
Duct	116	3	4		4	C E	H*	H*
Flame	117	3	*	75	5	CE	D*	D*
Near Alarm	118	3	*	76	6	C E	I*	I*
Panic	120	3	*	78	8	CE	J*	J*
Duress	121	3	*	79	9	CE	K*	K*
Silent	122	3	*	7A	Α	CE	J*	J*
Audible	123	3	*	7B	В	CE	J*	J*
Duress – Access granted	124	*	0	7C	С	CE	00	00
Duress – Egress granted	125	*	0	7D	D	CE	00	00
Burglary	130	1	*	82	2	CE	*	*
Perimeter	131	1	*	83	3	CE	*	*
Interior	132	1	*	84	4	C E	*	*
24 Hour (Safe)	133	1	*	85	5	CE	*	*
, ,	134	1	*	86	6	CE	*	*
Entry/Exit	_		*				*	*
Day/night	135	1		87	7	C E		
Outdoor	136	1	*	88	8	C E	*	l*
Tamper Zone Digital Communication	137	1	*	89	9	C E	m*	m*
Stand								
Near alarm	138	1	*	8A	Α	C E	n*	n*
Burglary	130	3	*	82	2	CE	L*	L*
Perimeter	131	3	*	83	3	CE	L*	L*
Interior	132	3	*	84	4	CE	L*	L*
24 Hour (Safe)	133	3	*	85	5	CE	L*	L*
Entry/Exit	134	3	*	86	6	CE	L*	L*
Day/night	135	3	*	87	7	CE	L*	L*
Outdoor	136	3	*	88	8	CE	L*	L*
Tamper Zone Digital Communication Stand	137	3	*	89	9	CE	М*	M*
Near alarm	138	3	*	8A	Α	C E	N*	N*
Intrusion Verifier	139	*	0	8B	В	CE	00	00
General Alarm	140	1	0	8C	С	CE	00 0a	0a
Polling loop open	140	1	0	8D	D	CE	0b	0b
Polling loop short		1		8E				
	142	1	0		E	CE	0c	0c
Expansion module failure	143	1	0	8F	F	C E	0d	0d
General Alarm	140	3	0	8C	С	CE	0A	0A
Polling loop open	141	3	0	8D	D	C E	0B	0B
Polling loop short	142	3	0	8E	E	CE	0C	0C
Expansion module failure	143	3	0	8F	F	CE	0D	0D
Sensor tamper	144	1	*	90	0	CE	0*	0*
Expansion module tamper	145	1	*	91	1	CE	p*	p*
Sensor tamper	144	3	*	90	0	CE	0*	0*
'					-	·	<u> </u>	1

Espenstein modele temper	Description		CID/PID	Code	HEX2DGT	ELL	ELL IRCN	Atia*	Atia Ext.*
Sensor Supervision Failure 147	•	145		*			_		
24 Hour from Surglary 150 1	Silent Burglary	146	*	0	92	2	CE	00	00
24 Hour for Surglery	Sensor Supervision Failure		*	0		3		00	00
See detected				*					
Refrigeration 152 1 0 88 8 C E 07 07 07 07 07 07 07								-	
Loss of heat		_			-				
Water Leakage								-	_
For Branch For Starter For Water Lessinge For Starter For Starter								-	
Low bottledg gas level 157	ú	-			-			-	1
High temp	Day Trouble	156	1	0	9C	С	CE	0j	0j
Low temp	Low bottled gas level	-	1	0	-	D		0k	-
Loss of elected									
Case detected	•								
Refrigeration 152 3 0 98 8 C E 0F 0F Uses of heat 153 3 0 99 C E 06 06 Water Leskage 154 3 0 99 C E 06 06 Water Leskage 154 3 0 99 C E 00 01 Day Trouble 156 3 0 99 C C C E 01 01 Day Trouble 156 3 0 99 C C C E 01 01 Day Trouble 156 3 0 99 C C C E 00 01 Day Trouble 158 3 0 99 C C C E 00 01 Day Trouble 158 3 0 99 C C C E 00 01 Day Trouble 158 3 0 99 C E C E 01 01 Day Trouble 158 3 0 99 C E C E 01 01 Day Trouble 158 3 0 99 C E C E 01 01 Day Trouble 158 3 0 99 C E C E 01 01 Day Trouble 159 3 0 99 C E C E 01 01 Day Trouble 159 3 0 99 C E C E 01 01 Day Trouble 159 3 0 99 C E C E 01 01 Day Trouble 159 3 0 99 C E 00 00 Day Trouble 159 3 0 99 C E 00 00 Day Trouble 159 3 0 99 C E 00 00 Day Trouble 159 3 0 99 C E 00 00 Day Trouble 159 3 0 99 C E 00 00 Day Trouble 159 1 0 0 0 0 0 Day Trouble 159 1 0 0 0 0 0 Day Trouble 159 1 0 0 0 0 0 Day Trouble 159 1 0 0 0 0 0 Day Trouble 159 1 0 0 0 0 0 Day Trouble 159 1 0 0 0 0 0 Day Trouble 159 1 0 0 0 0 0 Day Trouble 159 1 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 0 0 Day Trouble 150 1 0 0 0 0 0 0 0 Day Trouble 150 1 0 0 0		-						-	-
Loss of heat					-			-	-
Water Leakage									
Day Trouble						-			1
Low botted gas level	Foil Break	155	3	0	9B	В	CE	0I	0I
High temp	Day Trouble	156	3	0	9C	С	CE	03	0J
Low temp	Low bottled gas level	157	3	0	-	D	CE	-	-
Loss of air flow								-	
Carbon Monoxide detected					-			-	-
Tank level								-	-
Fire Supervisory									1
Fire Supervisory				*		_			
Low water pressure				*					
Low CO2	. ,			0					
Gate valve sensor		-				-			
Pump activated	Gate valve sensor		1		СВ	В	CE		
Pump failure 206 1 0 CE E C E 0t Ot System Trouble 300 1 0 2C C C E 0u 0u AC Loss C C E 0u 0u AC Loss C C C E 0u 0u AC Loss C C C E 0u OU AC Loss OW OW ACK OW OW ACK C C E OW OW OW ACK C C E OW OW OW ACK C C E OW OW <td>)</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>)	-							
System Trouble					_				
ACL Loss									
Low system battery	•								
RAM Checksum bad 303								-	
ROM checksum bad	,								
System reset 305 1 0 31 1 C E 02 02 Panel programming changed 306 1 0 32 2 C E 1a 1a Self-Test failure 307 1 0 33 3 C E 1b 1b System shutdown 308 1 0 34 4 C E 1c 1c Battery test failure 309 1 0 35 5 C E 1d 1d Ground fault 310 1 0 36 6 C E 1d 1d Ground fault 310 1 0 35 5 C E 1f 1f F Power Supply Over current 312 1 0 38 8 C E 1f 1f If Power Supply Over current 312 1 0 40 0 C E 1f 1f <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td></td<>								-	
Panel programming changed 396						-			
Self- test failure									
Battery test failure	,	307	1	0	33	3	CE	1b	1b
Ground fault 310 1 0 36 6 C E 1e 1e 1e Battery Missing/Dead 311 1 0 0 37 7 C E 1f 1f 1f Power Supply Over current 312 1 0 38 8 C E 4q 4q 4q Engineer Reset 313 1 0 38 8 C E 4q 4q 4q Engineer Reset 313 1 0 38 9 9 C E 00 00 00 Sounder/Relay 320 1 0 40 0 C E 1g 1g 1g Bell 1 321 1 0 41 1 C E 1h	System shutdown	308	1	0	34	4	CE	1c	1c
Battery Missing/Dead 311 1 0 37 7 C E 1f 1f Power Supply Over current 312 1 0 38 8 C E 4q 4q Power Supply Over current 312 1 0 38 8 C E 4q 4q Power Supply Over current 313 1 0 39 9 C E 00 00 Sounder/Relay 320 1 0 40 0 C E 1g 1g 1g Bell 1 321 1 0 41 1 C E 1h 1h Bell 2 322 1 0 42 2 C E 11 11 Alarm relay 323 1 0 42 2 C E 11 11 Alarm relay 323 1 0 43 3 C E 1J 1J Notification Appliance Ckt. #3 324 1 0 44 4 C E 1k 1k Reversing relay 325 1 0 45 5 C E 1I 1II Notification Appliance Ckt. #4 327 1 0 47 7 C E 00 00 System Peripheral trouble 330 1 0 47 7 C E 00 00 System Peripheral trouble 330 1 0 4A A C E 1m 1m Polling loop open 331 1 0 4A A C E 1m 1m Polling loop short 332 1 0 4C C C E 10 10 Expansion module failure 333 1 0 4C C C E 1q 1q Local printer out of paper 334 1 0 4E E C E 1q 1q Local printer out of paper 335 1 0 4F F C E 1q 1q Local printer out of paper 335 1 0 4F F C E 1q 1q Local printer out of paper 335 1 0 CA A C E 0P 0P Gate valve sensor 203 3 0 CA A C E 0P 0P Cate valve sensor 203 3 0 CA A C E 0P 0P Cate valve sensor 203 3 0 CA A C E 0P 0P Cate valve sensor 203 3 0 CA A C E 0P 0P Cate valve sensor 203 3 0 CC C C E 10 C C E 10 C C C C C C C C C C C C C C C C C C						_			
Power Supply Over current 312								-	
Engineer Reset 313 1 0 39 9 C E 00 00 Sounder/Relay 320 1 0 40 0 C E 1g 1g 1g 1g 1g 1g 1g 1g 1d 1 1 1 C E 1h 1h 1h 1h 1h 1g 1 C E 1h 1h 1h 1h 1h 1g 1 C E 1h 1h 1h 1h 1h 1g 1 C E 1h	,								
Sounder/Relay 320 1 0 40 0 C E 1g 1g		-							
Bell 1 321 1 0 41 1 C E 1h 1h Bell 2 322 1 0 42 2 C E 1l 1l Alarm relay 323 1 0 43 3 C E 1l 1j Trouble relay 324 1 0 44 4 C E 1k 1k Reversing relay 325 1 0 44 4 C E 1k 1k Reversing relay 325 1 0 45 5 C E 1l 1l Notification Appliance Ckt. #4 327 1 0 46 6 C E 00 00 Notification Appliance Ckt. #4 327 1 0 47 7 C E 00 00 System Preipheral trouble 333 1 0 44 A C E 1m	ı					_			
Bell 2								-	
Alarm relay 323 1 0 43 3 C E 1j 1j 1j 1j 1j 1j 1j									
Trouble relay	Alarm relay		1	0	43			1j	
Notification Appliance Ckt. # 3	Trouble relay	324	1	0	44	4	CE	1k	
Notification Appliance Ckt. #4 327 1 0 47 7 C E 00 00	Reversing relay	325	1	0	45	5	CE	11	11
System Peripheral trouble 330 1 0 4A A C E 1m 1m Polling loop open 331 1 0 4B B C E 1n 1n 1n Polling loop short 332 1 0 4C C C E 1o 1o E C E 1n 1n <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td>									1
Polling loop open									
Polling loop short									
Expansion module failure 333 1 0 4D D C E 1p 1p Repeater failure 334 1 0 4E E C E 1q 1q Local printer out of paper 335 1 0 4F F C E 1r 1r Local printer failure Zone Digital Comm. 336 1 0 50 0 C E 1s 1s Low water pressure 201 3 0 C9 9 C E 00 00 Low CO2 202 3 0 CA A C E 0P 0P Gate valve sensor 203 3 0 CB B C E 0Q 0Q Low water level Zone Digital Comm. 204 3 0 CC C C C R R R R R R R R R R R									
Repeater failure 334 1 0 4E E C E 1q 1q Local printer out of paper 335 1 0 4F F C E 1r 1r Local printer failure Zone Digital Comm. 336 1 0 50 0 C E 1r 1r Low water pressure 201 3 0 C9 9 C E 00 00 Low water level Zone Digital Comm. 203 3 0 CB B C E 0Q 0Q Low water level Zone Digital Comm. 204 3 0 CC C C E 0Q 0Q 0Q 0Q 1Q 0Q									
Local printer out of paper 335									
Local printer failure Zone Digital Comm. 336									
Low CO2 202 3 0 CA A C E OP OP Gate valve sensor 203 3 0 CB B C E OQ OQ Low water level Zone Digital Comm. 204 3 0 CC C C E OR OR Pump activated 205 3 0 CD D C E OS OS Pump failure 206 3 0 CE E C E OT						0			
Gate valve sensor 203 3 0 CB B C E 0Q 0Q Low water level Zone Digital Comm. 204 3 0 CC C C E 0R 0R Pump activated 205 3 0 CD D C E OS OS Pump failure 206 3 0 CE E C E OT	Low water pressure								
Low water level Zone Digital Comm. 204 3 0 CC C C E 0R 0R Pump activated 205 3 0 CD D C E 0S 0S Pump failure 206 3 0 CE E C E 0T 0T System Trouble 300 3 0 2C C C E 0U 0U AC Loss 301 3 0 2D D C E 0V 0V Low system battery 302 3 0 2E E C E 0W 0W RAM Checksum bad 303 3 0 2F F C E 0W 0W System hatter 305 3 0 30 0 C E 0Y 0Y System shutdown 308 3 0 33 3 C E 1B 1B									
Pump activated 205 3 0 CD D C E OS OS Pump failure 206 3 0 CE E C E OT									
Pump failure 206 3 0 CE E C E OT OT System Trouble 300 3 0 2C C C E 0U 0U AC Loss 301 3 0 2D D C E 0V 0V AC Loss 301 3 0 2D D C E 0V 0V 0V AC Loss 301 3 0 2D D C E 0V 0V 0V AC Loss 302 3 0 2E E C E 0W 0W AC Loss AC Loss 303 3 0 2E E C E 0W 0W AC Loss									1
System Trouble 300 3 0 2C C C E 0U 0U AC Loss 301 3 0 2D D C E 0V 0V Low system battery 302 3 0 2E E C E 0W 0W RAM Checksum bad 303 3 0 2F F C E 0X 0X ROM Checksum bad 304 3 0 30 0 C E 0Y 0Y System reset 305 3 0 31 1 C E 0Z 0Z Panel programming changed 306 3 0 32 2 C E 1A 1A Self- test failure 307 3 0 32 2 C E 1A 1A System shutdown 308 3 0 34 4 C E 1C 1C </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
AC Loss 301 3 0 2D D C E 0V 0V Low system battery 302 3 0 2E E C E 0W 0W RAM Checksum bad 303 3 0 2F F C E 0X 0X ROM checksum bad 304 3 0 30 0 C E 0Y 0Y System reset 305 3 0 31 1 C E 0Z 0Z Panel programming changed 306 3 0 32 2 C E 1A 1A Self- test failure 307 3 0 33 3 C E 1B 1B System shutdown 308 3 0 34 4 C E 1C 1C Battery test failure 309 3 0 35 5 C E 1D <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></t<>									1
Low system battery 302 3 0 2E E C E OW OW RAM Checksum bad 303 3 0 2F F C E 0X 0X ROM checksum bad 304 3 0 30 0 C E 0Y 0Y System reset 305 3 0 31 1 C E 0Z 0Z Panel programming changed 306 3 0 32 2 C E 1A 1A Self- test failure 307 3 0 33 3 C E 1B 1B System shutdown 308 3 0 34 4 C E 1C 1C Battery test failure 309 3 0 35 5 C E 1D 1D Ground fault 310 3 0 36 6 C E 1E	•								1
RAM Checksum bad 303 3 0 2F F C E 0X 0X ROM checksum bad 304 3 0 30 0 C E 0Y 0Y System reset 305 3 0 31 1 C E 0Z 0Z Panel programming changed 306 3 0 32 2 C E 1A 1A Self- test failure 307 3 0 33 3 C E 1B 1B System shutdown 308 3 0 34 4 C E 1C 1C Battery test failure 309 3 0 35 5 C E 1D 1D Ground fault 310 3 0 36 6 C E 1E 1E Battery test failure 311 3 0 37 7 C E 1F									
ROM checksum bad 304 3 0 30 0 C E 0Y 0Y System reset 305 3 0 31 1 C E 0Z 0Z Panel programming changed 306 3 0 32 2 C E 1A 1A Self- test failure 307 3 0 33 3 C E 1B 1B System shutdown 308 3 0 34 4 C E 1C 1C Battery test failure 309 3 0 35 5 C E 1D 1D Ground fault 310 3 0 36 6 C E 1E 1E Battery Missing/Dead 311 3 0 37 7 C E 1F 1F Power Supply Over current 312 3 0 38 8 C E 4Q	RAM Checksum bad								1
Panel programming changed 306 3 0 32 2 C E 1A 1A Self- test failure 307 3 0 33 3 C E 1B 1B System shutdown 308 3 0 34 4 C E 1C 1C Battery test failure 309 3 0 35 5 C E 1D 1D Ground fault 310 3 0 36 6 C E 1E 1E Battery Missing/Dead 311 3 0 37 7 C E 1F 1F Power Supply Over current 312 3 0 38 8 C E 4Q 4Q Engineer Reset 313 3 0 39 9 C 00 00 Sounder/Relay 320 3 0 40 0 C E 1G 1G	ROM checksum bad								1
Self- test failure 307 3 0 33 3 C E 1B 1B System shutdown 308 3 0 34 4 C E 1C 1C Battery test failure 309 3 0 35 5 C E 1D 1D Ground fault 310 3 0 36 6 C E 1E 1E Battery Missing/Dead 311 3 0 37 7 C E 1F 1F Power Supply Over current 312 3 0 38 8 C E 4Q 4Q Engineer Reset 313 3 0 39 9 C E 00 00 Sounder/Relay 320 3 0 40 0 C E 1G 1G		305	3	0	31	1	CE	0Z	0Z
System shutdown 308 3 0 34 4 C E 1C 1C Battery test failure 309 3 0 35 5 C E 1D 1D Ground fault 310 3 0 36 6 C E 1E 1E Battery Missing/Dead 311 3 0 37 7 C E 1F 1F Power Supply Over current 312 3 0 38 8 C E 4Q 4Q Engineer Reset 313 3 0 39 9 C E 00 00 Sounder/Relay 320 3 0 40 0 C E 1G 1G									
Battery test failure 309 3 0 35 5 C E 1D 1D Ground fault 310 3 0 36 6 C E 1E 1E Battery Missing/Dead 311 3 0 37 7 C E 1F 1F Power Supply Over current 312 3 0 38 8 C E 4Q 4Q Engineer Reset 313 3 0 39 9 C E 00 00 Sounder/Relay 320 3 0 40 0 C E 1G 1G									
Ground fault 310 3 0 36 6 C E 1E 1E Battery Missing/Dead 311 3 0 37 7 C E 1F 1F Power Supply Over current 312 3 0 38 8 C E 4Q 4Q Engineer Reset 313 3 0 39 9 C E 00 00 Sounder/Relay 320 3 0 40 0 C E 1G 1G									
Battery Missing/Dead 311 3 0 37 7 C E 1F 1F Power Supply Over current 312 3 0 38 8 C E 4Q 4Q Engineer Reset 313 3 0 39 9 C E 00 00 Sounder/Relay 320 3 0 40 0 C E 1G 1G									
Power Supply Over current 312 3 0 38 8 C E 4Q 4Q Engineer Reset 313 3 0 39 9 C E 00 00 Sounder/Relay 320 3 0 40 0 C E 1G 1G									
Engineer Reset 313 3 0 39 9 C E 00 00 Sounder/Relay 320 3 0 40 0 C E 1G 1G									
Sounder/Relay 320 3 0 40 0 C E 1G 1G									
	ı					-			
	Bell 1	321	3	0	41	1	CE	1H	1H

Description		CID/PID	Code	HEX2DGT	ELL	ELL IRCN	Atia*	Atia Ext.*
Bell 2	322	3	0	42	2	C E	11	1I
Alarm relay	323	3	0	43	3	CE	1J	1J
Trouble relay	324	3	0	44	4	C E	1K	1K
Reversing relay	325	3	0	45	5	CE	1L	1L
Notification Appliance Ckt. # 3 Notification Appliance Ckt. #4	326 327	3	0	46 47	6 7	C E C E	00	00
System Peripheral trouble	330	3	0	47 4A	A	CE	1M	1M
Polling loop open	331	3	0	4B	В	CE	1N	1N
Polling loop short	332	3	0	4C	С	CE	10	10
Expansion module failure	333	3	0	4D	D	CE	1P	1P
Repeater failure	334	3	0	4E	Е	CE	1Q	1Q
Local printer out of paper	335	3	0	4F	F	C E	1R	1R
Local printer failure Zone Digital Comm.	336	3	0	50	0	CE	1S	1S
Exp. Module DC Loss Exp. Module Low Bat.	337 338	*	0	51 52	1 2	C E	00	00
Exp. Module Low Bat. Exp. Module Reset	339	*	0	53	3	CE	00	00
Exp. Module Tamper	341	*	0	55	5	CE	00	00
Exp. Module AC Loss	342	*	0	56	6	CE	00	00
Exp. Module self-test fail	343	*	0	57	7	CE	00	00
RF Receiver Jam Detect	344	*	0	58	8	CE	00	00
Communication trouble	350	1	0	5E	E	CE	1t	1t
Telco 1 fault	351	1	0	5F	F	CE	1u	1u
Telco 2 fault	352	1	0	60	0	CE	1v	1v
Long Range Radio xmitter fault	353	1	0	61	1	CE	1w	1w
Failure to communicate event Loss of Radio supervision	354 355	1	0	62 63	2	C E	1x 1y	1x 1y
Loss of Radio Supervision Loss of central polling	356	1	0	64	4	CE	1y 1z	1y 1z
Communication trouble	350	3	0	5E	E	CE	17 1T	1Z 1T
Telco 1 fault	351	3	0	5F	F	CE	10	10
Telco 2 fault	352	3	0	60	0	CE	1V	1V
Long Range Radio xmitter fault	353	3	0	61	1	CE	1W	1W
Failure to communicate event	354	3	0	62	2	CE	1X	1X
Loss of Radio supervision	355	3	0	63	3	CE	1Y	1Y
Loss of central polling	356	3	0	64	4	C E	1Z	1Z
Long Range Radio VSWR problem	357	*	0	65	5	C E	00	00
Protection loop	370 371	1	0	72 73	2	C E	2a 2b	2a 2b
Protection loop open Protection loop short	371	1	0	73 74	3	C E	20 2c	20 2c
Fire trouble	373	1	0	75	5	CE	2d	2d
Protection loop	370	3	0	72	2	CE	2A	2A
Protection loop open	371	3	0	73	3	C E	2B	2B
Protection loop short	372	3	0	74	4	C E	2C	2C
Fire trouble	373	3	0	75	5	CE	2D	2D
Exit error alarm (zone)	374	1	*	76	6	CE	s*	s*
Exit error alarm (zone)	374	3	*	76	6	CE	S*	S*
Panic zone trouble	375	*	0	77	7	CE	00	00
Hold-up zone trouble	376 377	*	0	78 79	8	C E	00	00
Swinger Trouble Cross-zone Trouble	377	*	0	79 7A	9 A	C E	00	00
Sensor trouble	380	1	0	7C	C	CE	2e	2e
Loss of supervision - RF	381	1	0	7D	D	CE	2f	2f
Loss of supervision - RPM	382	1	0	7E	Е	CE	2g	2g
Sensor tamper	383	1	0	7F	F	CE	2h	2h
RF low battery	384	1	0	80	0	C E	2i	2i
Sensor trouble	380	3	0	7C	С	CE	2E	2E
Loss of supervision - RF	381	3	0	7D	D	C E	2F	2F
Loss of supervision - RPM	382	3	0	7E	E	CE	2G	2G
Sensor tamper RF low battery	383 384	3	0	7F 80	F 0	C E	2H 2I	2H 2I
Smoke detector Hi sensitivity	384 385	*	0	80 81	1	CE	00	00
Smoke detector his sensitivity Smoke detector Low sensitivity	386	*	0	82	2	CE	00	00
Intrusion detector Hi sensitivity	387	*	0	83	3	CE	00	00
Intrusion detector Low sensitivity Zone	388	*	0	84	4	CE	00	00
Sensor self-test failure	389	*	0	85	5	CE	00	00
Sensor Watch trouble	391	*	0	87	7	CE	00	00
Drift Compensation Error	392	*	0	88	8	CE	00	00
Maintenance Alert	393	*	0	89	9	C E	00	00
Open/Close	400	1	*	90	0	CE	t*	t*
O/C by user	401	1	*	91	1	CE	u*	u*
Group O/C Open/Close	402 400	3	*	92 90	2	C E	v* T*	v* T*
O/C by user	400	3	*	90 91	1	CE	U*	U*
Group O/C	402	3	*	92	2	CE	V*	V*
Automatic O/C	403	1	0	93	3	CE	2j	2j
Late to O/C (Note: use 453, 454 instead)	404	1	0	94	4	CE	2k	2k
Deferred O/C (Obsolete- do not use)	405	1	0	95	5	CE	21	21
Automatic O/C	403	3	0	93	3	CE	23	2J
Late to O/C (Note: use 453, 454 instead)	404	3	0	94	4	CE	2K	2K
Deferred O/C (Obsolete- do not use)	405	3	0	95	5	CE	2L	2L
Cancel	406	1	*	96	6	C E	W	W
Cancel	406	3	*	96	6	CE	W	W
Remote arm/disarm	407	1	0	97	7	CE	2m	2m
Quick arm Key switch O/C	408 409	1	0	98 99	8 9	C E	2n 2o	2n 2o
Callback request made	411	1	0	99 9B	В	CE	20 2p	20 2p
Successful download/access	412	1	0	9C	С	CE	2p 2q	2p 2q
			,	, ,,		_ ~ -	-4	-4

Usuaccestrial access	Description		CID/PID	Code	HEX2DGT	ELL	ELL IRCN	Atia*	Atia Ext.*
Disciss denominary 141	-	413	- ,		-				
Accessed exhand serviced with a service of the serv		414	1	0	9E	Е	CE	2s	2s
Remote amydiasem	Dialer shutdown command received	415	1	0	9F	F	CE	2t	2t
Quick same 488 3 0 98 8 C E 201 220 <	Access denied	421	1	0	A5	5	CE	2u	2u
Kery particle Color Colo	Remote arm/disarm	407	3	0	97	7	CE	2M	2M
Caliback repeat made	Quick arm	408	3	0	98	8	CE	2N	2N
Successful downloady/access 412 3 0 9 9C C C C E 20 20 20 20 20 20 20 20 20 20 20 20 20	Key switch O/C	409	3	0	99	9	-	20	20
Unsuccessful access 413 3 0 0 99 D 0 C E 278 288 285 Daler shutdown command received 415 3 0 0 99 E E C E 25 25 25 Daler shutdown command received 415 3 0 0 99 E E C E 27 27 27 Recess denied 1 415 3 0 0 99 E E C E 27 27 27 Recess denied 1 415 3 0 0 99 E E C E 27 27 27 Recess denied 1 415 3 0 0 99 E E C E 27 27 27 Recess denied 1 415 3 0 0 99 E E C E 27 27 27 Recess denied 1 415 3 0 0 99 E E C E 27 27 27 Recess denied 1 415 3 0 0 99 E E C E 27 27 27 Recess denied 1 415 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Callback request made	411	3	0	9B	В	CE	2P	2P
System shutdown command received	Successful download/access		_	-		-	-		2Q
Deler shutdown command received		_	_		-		-		
Access denied ACCES report by user ACCES R	•				-				
Access report by user		_	_		-		-		
Access report by user Access proprior by user Access provide Armed STAY 441 1 0 B9 9 C E 2W ZW XY Armed STAY 442 1 1 0 B8 A A C E 2W ZX Exception O/C 450 1 0 C2 2 C E 7Y ZY Early O/C 451 1 0 C3 3 3 C E 2Z Z2 Late O/C 451 1 0 C5 5 5 C E 35 35 35 Allo Samr Falled 453 1 0 C C 7 7 C E 35 Allo Samr Falled 453 1 0 C C 7 7 C E 36 Allo Samr Falled 453 1 0 C C 7 7 C E 36 Allo Samr Falled 454 1 0 C C 7 7 C E 37 Allo Samr Falled 455 1 0 C C 7 7 C E 36 Allo Samr Falled 457 Allo Samr Falled 458 1 0 C C 7 7 C E 36 Allo Samr Falled 459 1 0 C C 7 7 C E 36 Allo Samr Falled 459 Allo Samr Falled 459 1 0 C C 7 7 C E 36 Allo Samr Falled 459 Allo C E 30 Allo C E 3					-	-	-	-	_
Amed STAY Key witch Amed STAY 412 1 0 B9 9 9 C E 2									
Key switch Armed STAY	. ,				-	-	-		
Exception O/C					-	-	-		
Early OfC	-								2x
Late O/C					_		-	•	,
Failed to Open Failed		_					-		
Fallet to Cisce	-								
Auto arm Failed 455 1 0 C/ 7 C E 3d 2 E 2W 2X	Failed to Open		1	-		-	-	3b	3b
Armed STAY 441 3 0 0 89 9 9 C E 2W 2W Exception O/C 450 3 0 0 C2 2 2 C E 2Y 2Y Exception O/C 451 3 0 0 C3 3 C E 22 2 C E Extry O/C 452 3 0 0 C3 3 C E 22 2 C E Extry O/C 453 3 0 0 C3 3 C E 22 2 2 C E Extry O/C 454 3 0 0 C3 3 C E 22 2 2 C E Extry O/C 455 3 0 0 C4 4 4 C E 3A 3A 3A 3A Falled to Open 453 3 0 0 C5 5 5 C E 38 3B 3B Falled to Open 453 3 0 0 C5 5 5 C E 38 3B 3B Falled to Close 454 3 0 0 C5 5 5 C E 38 3B 3B Falled to Close 455 3 0 0 C5 6 6 C E 30 3C 3C Falled To Close 457 1 * * * * * * * * * * * * * * * * * *	Failed to Close	_	1	0	C6	6	-		
Key switch Armed STAY	Auto-arm Failed			0					
Exception O/C			_	-	-	-	-		
Early O/C 451 3 0 0 C3 3 3 C E 22 22 22 74 75 76 76 76 76 76 76 76 76 76			_				-		
Linte OfC									
Falled to Open Falled		_	_			_	-		
Failed to Close Auto-am Pailed ASS 3 0 C 7 7 C E 30 30 30 30 Partial Arm 456 * 0 0 C8 8 C E 000 00 30 SD Partial Arm 457 1 * 0 C9 9 C E 7 7 7 7 8 9 SD Partial Arm Exit Error (user) 457 1 * 0 C9 9 C E 7 7 7 7 7 8 9 SD Partial Arm Exit Error (user) 457 1 * 0 C9 9 C E 7 7 7 7 7 7 7 8 9 SD Partial Arm Exit Error (user) 457 1 * 0 C9 9 C E 7 7 7 7 7 7 7 8 9 SD Partial Arm Exit Error (user) 457 1 * 0 C9 9 C E 7 7 7 7 7 7 7 7 8 9 SD Partial Arm 458 * 0 C CA A C E 00 00 00 00 00 00 00 00 00 00 00 00 0	,	_	_		-		-	_	_
Auto-amm Falled	Failed to Open			0	C5	5		_	3B
Partial Arm		_	_	-			-		
EBET Error (user)					-		-	_	_
Earl Error (user)	Partial Arm	456	*	0	C8	8	CE	00	00
User on Premises	` ,	_				_	-	•	
Recent Close	Exit Error (user)	457	3	*	C9	9	-	Υ*	Υ*
Wrong Code Entry	User on Premises	458	*	0	CA	Α	CE	00	00
Legal Code Entry	Recent Close	459	1	0	СВ	В	CE	3e	3e
Re-arm after Alarm	Wrong Code Entry	461	1	0	CD	D	-	3f	3f
Auto-arm Time Extended	Legal Code Entry	462	1	0	CE	E	CE	3g	3g
Panic Alarm Reset	Re-arm after Alarm	463	1	0	CF	F	CE	3h	3h
Recent Close	Auto-arm Time Extended	464	1	0	D0	0	-	3i	3i
Wrong Code Entry	Panic Alarm Reset			0					3j
Legal Code Entry	Recent Close	459	3	0	СВ	В	CE	3E	3E
Re-arm after Alarm		-	_	0	-	D	-	_	_
Auto-arm Time Extended 464 3 0 D0 0 C E 31 31 Panic Alarm Reset 465 3 0 D1 1 C E 33 33 Service On/Off Premises 466 * 0 D2 2 C E 00 00 Successful Upload 416 * 0 A0 0 C E 00 00 Forced Access 423 1 0 A7 7 C E 2V 2V Forced Access Deniced 424 * 0 A8 8 C E 00 00 Egress Denied 426 * 0 A9 9 C E 00 00 Access Door propped open 426 * 0 AA A C E 00 00 Access Door propped open 426 * 0 AC C C E	Legal Code Entry	462		0		E			
Panic Alarm Reset	Re-arm after Alarm	463	3	0	CF	F	CE	3H	3H
Service On/Off Premises		-	3	0	-	0	-	_	_
Successful Upload	Panic Alarm Reset	465	3	0	D1				
Forced Access	Service On/Off Premises	466	*	0	D2	2	CE	00	00
Forced Access	Successful Upload	416	*	0	A0	0	CE	00	00
Egress Denied 424 * 0 A8 8 C E 00 00 Egress Granted 425 * 0 A9 9 C E 00 00 Access Door propped open 426 * 0 AA A C E 00 00 Access point Boor Status Monitor trouble 427 * 0 AB B C E 00 00 Access point Request To Exit trouble 428 * 0 AC C C E 00 00 Access point Request To Exit trouble 428 * 0 AC C E 00 00 Access point Request To Exit trouble 431 * 0 AB B C E 00 00 Access relation 431 * 0 AE E C E 00 00 Access Pragrad Install 432 * 0 BB 0 <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		_							
Egress Granted	Forced Access	_	3	0			-		
Access Door propped open	Egress Denied	424	*	0	A8	8	CE	00	00
Access point Door Status Monitor trouble	Egress Granted	_	*	0	A9	9	CE	00	00
Access point Request To Exit trouble 428 * 0	Access Door propped open	426	*	0	AA	Α	CE	00	00
Access program mode entry 429 * 0 AD D C E 00 00 Access program mode exit 430 * 0 AE E C E 00 00 Access threat level change 431 * 0 AF F C E 00 00 Access realy/trigger fail 432 * 0 B0 0 C E 00 00 Access FTE shunt 433 * 0 B1 1 C E 00 00 Access FTE shunt 434 * 0 B2 2 C E 00 00 Access reader disable 501 * 0 F5 5 C E 00 00 Sounder/Relay Disable 520 1 0 8 8 C E 3k 3k Bell 2 disable 523 1 0 0A A C <		427	*	0	AB	В	CE	00	00
Access program mode exit 430 * 0 AE E C E 00 00 Access threat level change 431 * 0 AF F C E 00 00 Access relay/trigger fall 432 * 0 B0 0 C E 00 00 Access Pader disable 434 * 0 B2 2 C E 00 00 Access Pader disable 501 * 0 F5 5 C E 00 00 Access reader disable 501 * 0 F5 5 C E 00 00 Access reader disable 501 * 0 F5 5 C E 00 00 Access reader disable 501 * 0 F5 5 C E 00 00 Access pader disable 501 0 0 A A C			*	0	AC	С	CE	00	00
Access threat level change 431 * 0 AF F C E 00 00 Access relay/trigger fail 432 * 0 B0 0 C E 00 00 Access RTE shunt 433 * 0 B1 1 C E 00 00 Access RTE shunt 434 * 0 B2 2 C E 00 00 Access RTE shunt 434 * 0 B2 2 C E 00 00 Access Reader disable 501 * 0 F5 5 C E 00 00 Sounder/Relay Disable 520 1 0 8 8 C E 3M 3m Trouble relay disable 523 1 0 0A A C E 3n 3n Reversing relay disable 525 1 0 0D D C		_	*	-		D		00	
Access relay/trigger fail 432 * 0 B0 0 C E 00 00 Access RTE shunt 433 * 0 B1 1 C E 00 00 Access DSM shunt 434 * 0 B2 2 C E 00 00 Access reader disable 501 * 0 F5 5 C E 00 00 Sounder/Relay Disable 520 1 0 8 8 C E 3k 3k Bell 1 disable 521 1 0 9 9 C E 3l 3l Alarm relay disable 522 1 0 0A A C E 3m 3m Trouble relay disable 524 1 0 0C C C E 3p 3p Sounder/Relay Disable 525 1 0 0D D C E		430	*	0	AE	E	CE	00	00
Access RTE shunt 433 * 0 B1 1 C E 00 00 Access DSM shunt 434 * 0 B2 2 C E 00 00 Access reader disable 501 * 0 F5 5 C E 00 00 Access reader disable 520 1 0 8 8 C E 3k 3k Bell 1 disable 520 1 0 9 9 C E 3l 3l 3l Bell 2 disable 522 1 0 0A A C E 3m 3m 3m Trouble relay disable 523 1 0 0B B C E 3m 3m Trouble relay disable 524 1 0 0C C C E 3p 3p Sounder/Relay Disable 520 3 0 8 8 C			*						
Access DSM shunt 434 * 0 B2 2 C E 00 00 Access reader disable 501 * 0 F5 5 C E 00 00 Sounder/Relay Disable 520 1 0 8 8 C E 3k 3k Bell 1 disable 521 1 0 9 9 C E 3l 3l Bell 2 disable 522 1 0 0A A C E 3m 3m Alarm relay disable 523 1 0 0B B C E 3m 3m Trouble relay disable 524 1 0 0C C C E 3o 3o Reversing relay disable 520 3 0 8 8 C E 3K 3K Bell 2 disable 521 3 0 0A A C E 3M <td>,, 55</td> <td>-</td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	,, 55	-	*						
Access reader disable 501 * 0 F5 5 C E 00 00 Sounder/Relay Disable 520 1 0 8 8 C E 3k 3k Bell I disable 521 1 0 9 9 C E 3l 3l Bell I disable 522 1 0 0A A C E 3m 3m Alarm relay disable 523 1 0 0B B C E 3m 3n Trouble relay disable 524 1 0 0C C C E 3o 3o Reversing relay disable 525 1 0 0D D C E 3p			·						
Sounder/Relay Disable 520 1 0 8 8 C E 3k 3k Bell 1 disable 521 1 0 9 9 C E 3l 3l Bell 2 disable 522 1 0 0A A C E 3m 3m Alarm relay disable 523 1 0 0B B C E 3n 3n Trouble relay disable 524 1 0 0C C C E 3o 3o Reversing relay disable 525 1 0 0D D C E 3p 3p Sounder/Relay Disable 520 3 0 8 8 C E 3K 3B 0 0D D C E 3p 3p 3D 3D 3D 3D <td></td> <td></td> <td>*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			*						
Bell 1 disable 521 1 0 9 9 C E 3I 3I Bell 2 disable 522 1 0 0A A C E 3m 3m Alarm relay disable 523 1 0 0B B C E 3n 3n Trouble relay disable 524 1 0 0C C C E 30 30 Reversing relay disable 525 1 0 0D D C E 3p 3p 3p Sounder/Relay Disable 520 3 0 8 8 C E 3K			*						
Bell 2 disable 522 1 0 0A A C E 3m 3m Alarm relay disable 523 1 0 0B B C E 3n 3n Trouble relay disable 524 1 0 0C C C E 30 30 Reversing relay disable 525 1 0 0D D C E 3p 3p Sounder/Relay Disable 520 3 0 8 8 C E 3K 3K Bell 1 disable 521 3 0 9 9 C E 3L 3L Bell 2 disable 522 3 0 0A A C E 3M 3M Alarm relay disable 523 3 0 0B B C E 3M 3M Reversing relay disable 525 3 0 0C C C E <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>									
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Radio transmitter disabled									
	Radio transmitter disabled	552	3	0	28	8	CE	3T	3T

Description		CID/PID	Code	HEX2DGT	ELL	ELL IRCN	Atia*	Atia Ext.*
Remote Upload/Download disabled	553	3	0	29	9	C E	3U	3U
Zone/Sensor bypass	570	1	*	3A	Ā	CE	z*	z*
Fire bypass	571	1	*	3B	В	CE	z*	z*
24 Hour zone bypass	572	1	*	3C	c	CE	z*	
Burg. Bypass	573	1	*	3D	D	CE	z*	z*
Group bypass	574	1	*	3E	Е	C E	z*	z*
Zone/Sensor bypass	570	3	*	3A	Α	CE	Z*	Z*
Fire bypass	571	3	*	3B	В	CE	Z*	Z*
24 Hour zone bypass	572	3	*	3C	С	CE	Z*	Z*
Burg. Bypass	573	3	*	3D	D	CE	Z*	Z*
Group bypass	574	3	*	3E	Е	CE	Z*	Z*
Swinger bypass	575	*	0	3F	F	CE	00	00
Access zone shunt	576	*	0	40	0	CE	00	00
Access point bypass	577	*	0	41	1	CE	00	00
Manual trigger test report	601	1	0	59	9	CE	3v	3v
Periodic test report	602	1	0	5A	Α	CE	3w	3w
Periodic RF transmission	603	1	0	5B	В	CE	3x	3x
Fire test	604	1	0	5C	С	CE	Зу	3y
Status report to follow	605	1	0	5D	D	CE	3z	3z
Listen- in to follow	606	1	0	5E	Е	CE	4a	4a
Walk test mode	607	1	0	5F	F	CE	4b	4b
Manual trigger test report	601	3	0	59	9	CE	3V	3V
Periodic test report	602	3	0	5A	Α	CE	3W	3W
Periodic RF transmission	603	3	0	5B	В	CE	3X	3X
Fire test	604	3	0	5C	С	CE	3Y	3Y
Status report to follow	605	3	0	5D	D	CE	3Z	3Z
Listen- in to follow	606	3	0	5E	Е	CE	4A	4A
Walk test mode	607	3	0	5F	F	CE	4B	4B
Periodic test - System Trouble Present	608	*	0	60	0	CE	00	00
Video Xmitter active	609	1	0	61	1	CE	4c	4c
Video Xmitter active	609	3	0	61	1	CE	4C	4C
Point tested OK	611	*	0	63	3	CE	00	00
Point not tested	612	*	0	64	4	CE	00	00
Intrusion Zone Walk Tested	613	*	0	65	5	CE	00	00
Fire Zone Walk Tested Zone Digital	614	*	0	66	6	CE	00	00
Comm.								
Panic Zone Walk Tested	615	*	0	67	7	CE	00	00
Service Request	616	*	0	68	8	CE	00	00
Event Log reset	621	1	0	6D	D	CE	4d	4d
Event Log 50% full	622	1	0	6E	E	CE	4e	4e
Event Log 90% full	623	1	0	6F	F	CE	4f	4f
Event Log overflow	624	1	0	70	0	CE	4g	4g
Time/Date reset	625	1	0	71	1	CE	4h	4h
Time/Date inaccurate	626	1	0	72	2	CE	4i	4i
Program mode entry	627	1	0	73	3	CE	4j	4j
Program mode exit	628	1	0	74	4	CE	4k	4k
Event Log reset	621	3	0	6D	D	CE	4D	4D
Event Log 50% full	622	3	0	6E	E	CE	4E	4E
Event Log 90% full	623	3	0	6F	F	CE	4F	4F
Event Log overflow	624	3	0	70	0	CE	4G	4G
Time/Date reset	625	3	0	71	1	CE	4H	4H
Time/Date inaccurate	626	3	0	72	2	CE	4I	4I
Program mode entry	627	3	0	73	3	CE	4)	43
Program mode exit	628	3	0	74	4	CE	4K	4K
32 Hour Event log marker	629	*	0	75	5	CE	00	00
Schedule change	630	1	0	76	6	CE	41	41
Exception schedule change	631	1	0	77	7	CE	4m	4m
Access schedule change	632	1	0	78	8	CE	4n	4n
Schedule change	630	3	0	76	6	CE	4L	4L
Exception schedule change	631	3	0	77	7	CE	4M	4M
Access schedule change	632	3	0	78	8	CE	4N	4N
Senior Watch Trouble	641	*	0	81	1	CE	00	00
Latch-key Supervision	642	*	0	82	2	CE	00	00
Reserved for Ademco Use	651	*	0	8B	В	CE	00	00
Reserved for Ademco Use	652	*	0	8C	С	CE	00	00
Reserved for Ademco Use	653	*	0	8D	D	CE	00	00
System Inactivity	654	*	0	8E	E	CE	00	00
PIMA - Life signal	790	*	0	16	6	CE	00	00
PIMA – Reg.	791	*	0	17	7	CE	00	00
PIMA - Counter lost	792	*	0	18	8	CE	00	00
PIMA - Sys Disconnect	793	*	0	19	9	CE	00	00

^{*} Zone/User wildcard number; applicable only to Atia and Atia ext.

Zone/User numbers are added to the Atia protocol by the following order: (Ascii as decimal)

Zone\User	Order
0-9	48, 49, 50, 51, 52, 53, 54, 55, 56, 57
	97, 98, 99, 100, 101, 102, 103, 104, 105, 106
20-29	107, 108, 109, 110, 111, 112, 113, 114, 115, 116
	117, 118, 119, 120, 121, 122, 65, 66, 67, 68
40-49	69, 70, 71, 72, 73, 74, 75, 76, 77, 78
50-59	79, 80, 81, 82, 83, 84, 85, 86, 87, 88
60-61	89, 90

In Atia, zones/users higher than 62 are represented as space character (32 in Ascii as decimal).

In Atia External, the numbers continue as following:

Zone\User	Order
62-69	48, 49, 50, 51, 52, 53, 54, 55, 56, 57
70-79	97, 98, 99, 100, 101, 102, 103, 104, 105, 106
80-89	107, 108, 109, 110, 111, 112, 113, 114, 115, 116
90-96	117, 118, 119, 120, 121, 122, 65, 66, 67, 68

In Atia External, zones/users higher than 97 are represented as space character (32 in Ascii as decimal).

- st Alarm/Reset wildcard number means, that there is no difference in converting the values 1 or 3.
- ** 1 = E, 3 = R (CID, depending on the RS-232 protocol)

SIA

(Currently, event conversion is not available)

Data Code	Short Description	Long Description	Address Field
AA	Alarm – Panel	An attempt to substitute an alternate alarm panel for a secure	Condition number
	Substitution	panel has been made	
AB	Abort	An event message was not sent due to User action	Zone or point
AN	Analog Restoral	An analog fire sensor has been restored to normal operation	Zone or point
AR	AC Restoral	AC power has been restored	Unused
AS	Analog Service	An analog fire sensor needs to be cleaned or calibrated	Zone or point
AT	AC Trouble	AC power has been failed	Unused
BA	Burglary Alarm	Burglary zone has been violated while armed	Zone or point
BB	Burglary Bypass	Burglary zone has been bypassed	Zone or point
BC	Burglary Cancel	Alarm has been cancelled by authorized user	User number
BD	Swinger Trouble	A non-fire zone has been violated after a Swinger Shutdown on	Zone or point
BE	Swinger Trouble	the zone A non-fire zone restores to normal from a Swinger Trouble state	·
	Restore	-	Zone or point
BG	Unverified Event -	A point assigned to a Cross Point group has gone into alarm but	Zone or point
	Burglary	the Cross Point remained normal	
BH	Burglary Alarm Restore	Alarm condition eliminated	Zone or point
BJ	Burglary Trouble	Trouble condition eliminated	Zone or point
	Restore		
BM	Burglary Alarm -	Burglary alarm w/cross point also in alarm - alarm verified	Zone or point
ויוט		Durgiary diariti w/Cross point also in diariti - diariti verified	Zone or point
DD	Cross Point	Alarm/trouble condition has been eliminated	Zono or noint
BR	Burglary Restoral	1	Zone or point
BS DT	Burglary Supervisory	Unsafe intrusion detection system condition	Zone or point
BT	Burglary Trouble	Burglary zone disabled by fault	Zone or point
BU	Burglary Unbypass	Zone bypass has been removed	Zone or point
BV	Burglary Verified	A burglary alarm has occurred and been verified within	Area number
		programmed conditions. (zone or point not sent)	
BX	Burglary Test	Burglary zone activated during testing	Zone or point
BZ	Missing Supervision	A non-fire Supervisory point has gone missing	Zone or point
CA	Automatic Closing	System armed automatically	Area number
CD	Closing Delinquent	The system has not been armed for a programmed amount of time	Area number
CE	Closing Extend	Extend closing time	User number
CF	Forced Closing	System armed, some zones not ready	User number
CG	Close Area	System has been partially armed	Area number
CI	Fail to Close	An area has not been armed at the end of the closing window	Area number
CJ	Late Close	An area was armed after the closing window	User number
CK	Early Close	An area was armed before the closing window	User number
CL	Closing Report	System armed, normal	User number
CM	Missing Alarm-	A point has gone missing within 2 minutes of closing	Zone or point
CIT	_	A point has gone missing within 2 minutes of closing	Zone or point
CC	Recent Closing Command Sent	A command has been cent to an expansion/neginbount desiles	Condition number
CD		A command has been sent to an expansion/peripheral device	
CP CO	Automatic Closing	System armed automatically The system was armed from a remote location	User number
CQ CR	Remote Closing Recent Closing	The system was armed from a remote location An alarm occurred within five minutes after the system was	User number User number
	Claster Karring	closed	7
<u>CS</u>	Closing Keyswitch	Account has been armed by keyswitch	Zone or point
CT	Late to Open	System was not disarmed on time	Area number
CW	Was Force Armed	Header for a force armed session, forced point msgs may follow	Area number
CX	Custom Function	The panel has executed a preprogrammed set of instructions	Custom Function
	Executed		number
CZ	Point Closing	A point, as opposed to a whole area or account, has closed	Zone or point
DA	Card Assigned	An access ID has been added to the controller	User number
DB	Card Deleted	An access ID has been deleted from the controller	User number
DC	Access Closed	Access to all users prohibited	Door number
DD	Access Denied	Access denied, unknown code	Door number
DE	Request to Enter	An access point was opened via a Request to Enter device	Door number
DF	Door Forced	Door opened without access request	Door number
DG	Access Granted	Door access granted	Door number
DH	Door Left Open -	An access point in a Door Left Open state has restored	Door number
		i access ponic in a poor Ecre open state has restored	- coi mannoci

ata Code	Chart Description	Laur Dagarintian	Adduses Field
DI	Short Description Access Denied -	Long Description Access denied because credential has not exited area before	Address Field Door number
DI	Passback		Door Humber
DJ	Door Forced -	An access point has been forced open in an unarmed area	Door number
נט		An access point has been forced open in an unarmed area	Door number
- Dir	Trouble		
DK	Access Lockout	Access denied, known code	Door number
DL	Door Left Open -	An open access point when open time expired in an armed area	Door number
	Alarm		
DM	Door Left Open -	An open access point when open time expired in an unarmed area	Door number
	Trouble		
DN	Door Left Open	An access point was open when the door cycle time expired	Door number
	(non-alarm, non-		
	trouble)		
DO	Access Open	Access to authorized users allowed	Door number
DP	Access Denied -	An access request was denied because the request is occurring	Door number
Di	Unauthorized Time	outside the user's authorized time window(s)	Door Hamber
DQ	Access Denied	An access request was denied because the user was not	Door number
ЬQ		1	Door Humber
	Unauthorized	authorized in this area when the area was armed	
	Arming State		
DR	Door Restoral	Access alarm/trouble condition eliminated	Door number
DS	Door Station	Identifies door for next report	Door number
DT	Access Trouble	Access system trouble	Unused
DU	Dealer ID	Dealer ID number	Dealer ID
DV	Access Denied	An access request was denied because the user is not authorized	Door number
	Unauthorized Entry	in this area	
	Level		
DW	Access Denied -	An access request was denied because the doors associated	Door number
D VV		· · · · · · · · · · · · · · · · · · ·	ושטווווווווווווווווווווווווווווווווווו
DV	Interlock	Interlock point is open	Door monet
DX	Request to Exit	An access point was opened via a Request to Exit device	Door number
DY	Door Locked	The door's lock has been engaged	Door number
DZ	Access Denied -	An access request was denied because the door has been placed	Door number
	Door Secured	in an Access Closed state	
EA	Exit Alarm	An exit zone remained violated at the end of the exit delay period	Zone or point
EE	Exit Error	An exit zone remained violated at the end of the exit delay period	User number
EJ	Expansion Tamper	Expansion device tamper restoral	Expansion device
	Restore	·	number
EM	Expansion Device	Expansion device missing	Expansion device
	Missing	Expansion device missing	number
EN	Expansion Missing	Evenancian davice communications to established	Expansion device
□IN		Expansion device communications re-established	
	Restore		number
ER	Expansion Restoral	Expansion device trouble eliminated	Expander number
ES	Expansion Device	Expansion device enclosure tamper	Expansion device
	Tamper		number
ET	Expansion Trouble	Expansion device trouble	Expander number
EX	External Device	A specific reportable condition is detected on an external device	Device number
	Condition		
		A point remained missing at the end of the exit delay period	
EZ		I A DOING TEIRIAINEU IIIISSINU AL GIE ENU OFGIE EXIL GEIAV DERIOG	Point number
EZ	Missing Alarm - Exit	A point remained missing at the end of the exit delay period	Point number
	Missing Alarm - Exit Error	,,,	
FA	Missing Alarm - Exit Error Fire Alarm	Fire condition detected	Zone or point
FA FB	Missing Alarm - Exit Error Fire Alarm Fire Bypass	Fire condition detected Zone has been bypassed	Zone or point Zone or point
FA FB FC	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person	Zone or point Zone or point Zone or point
FA FB	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event –	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but	Zone or point Zone or point
FA FB FC FG	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event – Fire	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal	Zone or point
FA FB FC FG	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event – Fire Fire Alarm Restore	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal Alarm condition eliminated	Zone or point
FA FB FC FG FH FI	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event – Fire Fire Alarm Restore Fire Test Begin	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal Alarm condition eliminated The transmitter area's fire test has begun	Zone or point Area number
FA FB FC FG FH FI FJ	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event – Fire Fire Alarm Restore Fire Test Begin Fire Trouble Restore	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal Alarm condition eliminated The transmitter area's fire test has begun Trouble condition eliminated	Zone or point Area number Zone or point
FA FB FC FG FH FI FJ FK	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event – Fire Fire Alarm Restore Fire Test Begin Fire Trouble Restore Fire Test End	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal Alarm condition eliminated The transmitter area's fire test has begun Trouble condition eliminated The transmitter area's fire test has ended	Zone or point Area number Zone or point Area number
FA FB FC FG FH FI FJ FK FL	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event – Fire Fire Alarm Restore Fire Test Beglin Fire Trouble Restore Fire Test End Fire Alarm Silenced	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal Alarm condition eliminated The transmitter area's fire test has begun Trouble condition eliminated The transmitter area's fire test has ended The transmitter area's fire test has ended The fire panel's sounder was silenced by command	Zone or point Zone or point Area number Zone or point Area number Zone or point Area number
FA FB FC FG FH FI FJ FK	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event – Fire Fire Alarm Restore Fire Test Begin Fire Trouble Restore Fire Test End	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal Alarm condition eliminated The transmitter area's fire test has begun Trouble condition eliminated The transmitter area's fire test has ended	Zone or point Area number Zone or point Area number
FA FB FC FG FH FI FJ FK FL	Missing Alarm - Exit Error Fire Alarm Fire Bypass Fire Cancel Unverified Event – Fire Fire Alarm Restore Fire Test Beglin Fire Trouble Restore Fire Test End Fire Alarm Silenced	Fire condition detected Zone has been bypassed A Fire Alarm has been cancelled by an authorized person A point assigned to a Cross Point group has gone into alarm but the Cross Point remained normal Alarm condition eliminated The transmitter area's fire test has begun Trouble condition eliminated The transmitter area's fire test has ended The transmitter area's fire test has ended The fire panel's sounder was silenced by command	Zone or point Zone or point Area number Zone or point Area number Zone or point Area number
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GK Gas Test Zone activated during test HA Holdup Alarm Silent alarm, user under duress Zone or HH Holdup Alarm Childron eliminated HH Holdup Alarm Childron eliminated Restore HD Holdup Toruble Restore HB Holdup Restoral HB Holdup Supervisory Unsafe holdup system condition HD Holdup Irouble De Jone Gondition Has been eliminated Zone or Jone or HT Holdup Irouble De Jone Gondition Jone or Jone Gondition LB Equipment Failure Condition IR Equipment Failure Condition IR Equipment Failure IR Equipment Failure Condition IR Equipment Failure IP User Code Tamper JD Date Changed The date was changed in the transmitter/receiver JD Date Changed The date was changed in the transmitter/receiver JB H Holdiday Changed JD Log Overflow The transmitter's log memory has reached its threshold level JD Log Overflow The transmitter's log memory has reached its threshold level JD Log Overflow The transmitter's log memory has reached its threshold level JD Log Overflow The transmitter's log memory has overflowed JD Log Overflow The transmitter's log memory has reached its threshold level JD User One Overflow The transmitter's log memory has reached its threshold level JD User Overflow The transmitter's log memory has overflowed JD User Code Deleted JD Hold Deleted JD Log Overflow The transmitter's log memory has overflowed JD User Code Deleted JD Log Overflow The transmitter's log memory has overflowed JD Log Overflow The transmitter's log memory has overflowed JD Log Overflow JD Hold Deleted JD Log Overflow JD Hold Deleted JD Log Overflow JD Hold Deleted JD Log Overflow The transmitter's log memory has been do gain access to the premises. JR Schedule Changed An automatic schedule was changed JD Hold Deleted JD Log Overflow JD Hold Deleted JD Log Overflow JD Hold Deleted JD Log Overflow JD Hold Deleted JD Log Deleted JD Log	or point
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NA No Activity There has been no zone activity for a programmed amount of time NC Network Condition A communications network has a specific reportable condition Network NF Forced Perimeter Arm No Activity There has been no zone activity for a programmed amount of time No Network Condition A communications network has a specific reportable condition Network Area number of time.	
NC Network Condition A communications network has a specific reportable condition Network NF Forced Perimeter Some zones/points not ready Arm Area nu	number
NF Forced Perimeter Some zones/points not ready Area nu	rk number
NL Perimeter Armed An area has been perimeter armed Area nu	number
NM Perimeter Armed, A user defined area has been perimeter armed Area nu	
User Defined NP Natural A communications network has returned to normal operation. Natural	rk number
	ork number
	number ork number
OA Automatic Opening System has disarmed automatically Area nu	
OC Cancel Report Untyped zone cancel User nu	
OG Open Area System has been partially disarmed Area nu	

Data Code	Short Description	Long Description	Address Field
OH	Early to Open from	An area in alarm was disarmed before the opening window	User number
OH	Alarm	An area in diarm was disarmed before the opening window	Oser Humber
OI	Fail to Open	An area has not been armed at the end of the opening window	Area number
OJ	Late Open	An area was disarmed after the opening window	User number
OK	Early Open	An area was disarmed after the opening window An area was disarmed before the opening window	User number
OL OL	Late to Open from	An area in alarm was disarmed after the opening window	User number
OL	·	Art area in alarm was disarmed after the opening window	USEI HUITIDEI
0.0	Alarm	A	Hannan ann an Indian
OP OP	Opening Report	Account was disarmed	User number
OQ OR	Remote Opening	The system was disarmed from a remote location	User number
OR	Disarm From Alarm	Account in alarm was reset/disarmed	User number
OS	Opening Keyswitch	Account has been disarmed by keyswitch	Zone or point
OT	Late To Close	System was not armed on time	User number
OU	Output State –	An output on a peripheral device or NAC is not functioning	Output number
	Trouble		
OV	Output State –	An output on a peripheral device or NAC is back to normal	Output number
	Restore	operation	
OZ	Point Opening	A point, rather than a full area or account, disarmed	Zone or point
PA	Panic Alarm	Emergency assistance request, manually activated	Zone or point
PB	Panic Bypass	Panic zone has been bypassed	Zone or point
PH	Panic Alarm Restore	Alarm condition eliminated	Zone or point
PJ	Panic Trouble	Trouble condition eliminated	Zone or point
	Restore	Trousic condition committee	Zone or point
PR	Panic Restoral	Alarm/trouble condition has been eliminated	Zone or point
PS	Panic Restoral Panic Supervisory	Unsafe system condition exists	Zone or point
	Panic Supervisory Panic Trouble	Zone disabled by fault	
PT			Zone or point
PU	Panic Unbypass	Panic zone bypass has been removed	Zone or point
QA OB	Emergency Alarm	Emergency assistance request	Zone or point
QB	Emergency Bypass	Zone has been bypassed	Zone or point
QH	Emergency Alarm	Alarm condition has been eliminated	Zone or point
	Restore		
QJ	Emergency Trouble	Trouble condition has been eliminated	Zone or point
	Restore		
QR	Emergency Restoral	Alarm/trouble condition has been eliminated	Zone or point
QS	Emergency	Unsafe system condition exists	Zone or point
Q.	Supervisory	Should System contained states	Zone or point
QT	Emergency Trouble	Zone disabled by fault	Zone or point
QU	Emergency	Bypass has been removed	Zone or point
Ųΰ	- '	bypass has been removed	Zone or point
	Unbypass		
RA	Remote Programmer	Transmitter failed to communicate with the remote programmer	Unused
	Call Failed		
RB	Remote Program	Remote programming session initiated	Unused
	Begin		
RC	Relay Close	A relay has energized	Relay number
RD	Remote Program	Access passcode incorrect	Unused
	Denied	·	
RN	Remote Reset	A TRANSMITTER was reset via a remote programmer	Unused
RO	Relay Open	A relay has de-energized	Relay number
RP	Automatic Test	Automatic communication test report	Unused
RR	Power Up	System lost power, is now restored	Unused
RS	Remote Program	Remote programming successful	Unused
	Success	The state of the s	Jiidoca
DT		Dialor data loct transmission arror	Lina numbar
RT	Data Lost	Dialer data lost, transmission error	Line number
RU	Remote Program Fail	Remote programming unsuccessful	Unused
RX	Manual Test	Manual communication test report	User number
RY	Test Off Normal	Test signal(s) indicates abnormal condition(s) exist	Zone or point
SA SP	Sprinkler Alarm	Sprinkler flow condition exists	Zone or point
SB	Sprinkler Bypass	Sprinkler zone has been bypassed	Zone or point
SC	Change of State	An expansion/peripheral device is reporting a new condition or	Condition number
	<u> </u>	state change	<u> </u>
SH	Sprinkler Alarm	Alarm condition eliminated	Zone or point
	Restore		
SJ	Sprinkler Trouble	Trouble condition eliminated	Zone or point
	Restore		
SR	Sprinkler Restoral	Alarm/trouble condition has been eliminated	Zone or point
SS	Sprinkler	Unsafe sprinkler system condition	Zone or point
	Supervisory	, , , , , , , , , , , , , , , , , , , ,	. ,
ST	Sprinkler Trouble	Zone disabled by fault	Zone or point
SU	Sprinkler Unbypass	Sprinkler zone bypass has been removed	Zone or point
TA	Tamper Alarm	Alarm equipment enclosure opened	Zone or point
TB	Tamper Bypass	Tamper detection has been bypassed	Zone or point
TC	All Points Tested	All point tested	Unused
TE	Test End	Communicator restored to operation	Unused
TH	Tamper Alarm	An Expansion Device's tamper switch restores to normal from an	Unused
	Restore	Alarm state	
TJ	Tamper Trouble	An Expansion Device's tamper switch restores to normal from a	Unused
	Restore	Trouble state	
		This point was tested during a Walk Test	Point number
TP	Walk Test Point	I IIIS POIIT Was tested duffin a Walk Test	
TP TR	Walk Test Point Tamper Restoral	Alarm equipment enclosure has been closed	Zone or point

	la:	I	T
Data Code		Long Description	Address Field
TT	Tamper Trouble	Equipment enclosure opened in disarmed state	Zone or point
TU	Tamper Unbypass	Tamper detection bypass has been removed	Zone or point
TW	Area Watch Start	Area watch feature has been activated	Unused
TX	Test Report	An unspecified (manual or automatic) communicator test	Unused
TZ	Area Watch End	Area watch feature has been deactivated	Unused
UA	Untyped Zone Alarm	Alarm condition from zone of unknown type	Zone or point
UB	Untyped Zone	Zone of unknown type has been bypassed	Zone or point
	Bypass		
UG	Unverified Event –	A point assigned to a Cross Point group has gone into alarm but	Zone or point
	Untyped	the Cross Point remained normal	
UH	Untyped Alarm	Alarm condition eliminated	Zone or point
	Restore		
UJ	Untyped Trouble	Trouble condition eliminated	Zone or point
	Restore		
UR	Untyped Zone	Alarm/trouble condition eliminated from zone of unknown type	Zone or point
	Restoral		•
US	Untyped Zone	Unsafe condition from zone of unknown type	Zone or point
	Supervisory	7,7	
UT	Untyped Zone	Trouble condition from zone of unknown type	Zone or point
0.	Trouble	Trouble condition from Zone of unitariown type	Zone or point
UU	Untyped Zone	Bypass on zone of unknown type has been removed	Zone or point
00		Bypass on zone of unknown type has been removed	Zone or point
LIV	Unbypass Undefined	An undefined alarm condition has occurred	Unusad
UX			Unused
UY	Untyped Missing	A point or device which was not armed is now logically missing	Zone or point
	Trouble		
UZ	Untyped Missing	A point or device which was armed is now logically missing	Zone or point
	Alarm		
VI	Printer Paper In	TRANSMITTER or RECEIVER paper in	Printer number
VO	Printer Paper Out	TRANSMITTER or RECEIVER paper out	Printer number
VR	Printer Restore	TRANSMITTER or RECEIVER trouble restored	Printer number
VT	Printer Trouble	TRANSMITTER or RECEIVER trouble	Printer number
VX	Printer Test	TRANSMITTER or RECEIVER test	Printer number
VY	Printer Online	RECEIVER'S printer is now online	Unused
VZ	Printer Offline	RECEIVER'S printer is now offline	Unused
WA	Water Alarm	Water detected at protected premises	Zone or point
WB	Water Bypass	Water detection has been bypassed	Zone or point
WH	Water Alarm Restore	Water alarm condition eliminated	Zone or point
WJ	Water Trouble	Water trouble condition eliminated	Zone or point
	Restore		
WR	Water Restoral	Water alarm/trouble condition has been eliminated	Zone or point
WS	Water Supervisory	Water unsafe water detection system condition	Zone or point
WT	Water Trouble	Water zone disabled by fault	Zone or point
WU	Water Unbypass	Water detection bypass has been removed	Zone or point
XA	Extra Account	CS RECEIVER has received an event from a non-existent account	Unused
	Report		
XE	Extra Point	Panel has sensed an extra point not specified for this site	Point number
XF	Extra RF Point	Panel has sensed an extra RF point not specified for this site	Point number
XH	RF Interference	A radio device is no longer detecting RF Interference	Receiver number
	Restoral	The state of the s	
XI			
XJ	Sensor Reset	A user has reset a sensor	Zone or point
,,,	Sensor Reset RF Receiver Tamper	A Tamper condition at a premises RF Receiver has been restored	Zone or point
Ì	RF Receiver Tamper	A user has reset a sensor A Tamper condition at a premises RF Receiver has been restored	Zone or point Receiver number
VI	RF Receiver Tamper Restoral	A Tamper condition at a premises RF Receiver has been restored	Receiver number
XL	RF Receiver Tamper Restoral Low Received Signal	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum	
	RF Receiver Tamper Restoral Low Received Signal Strength	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level	Receiver number Receiver number
XL XM	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm -	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum	Receiver number
XM	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing)	Receiver number Receiver number Zone or point
XM XQ	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference	Receiver number Receiver number Zone or point Receiver number
XM	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing)	Receiver number Receiver number Zone or point
XM XQ XR	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected	Receiver number Receiver number Zone or point Receiver number Zone or point
XM XQ XR XS	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number
XM XQ XR	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected	Receiver number Receiver number Zone or point Receiver number Zone or point
XM XQ XR XS XT	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point
XM XQ XR XS XT XW	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point
XM XQ XR XS XT XW XX	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused
XM XQ XR XS XT XW	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point
XM XQ XR XS XT XW XX	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused
XM XQ XR XS XT XW XX	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused
XM XQ XR XS XT XW XX YA	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Unused
XM XQ XR XS XT XW XX YA	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Unused Line card number
XM XQ XR XS XT XW XX YA YB YC	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Unused Line card number Unused
XM XQ XR XS XT XW XX YA YB YC YD	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER A line card identified by the passed address is in trouble	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Line card number Unused Line card number
XM XQ XR XS XT XW XX YA YB YC	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble Receiver Line Card	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Unused Line card number Unused
XM XQ XR XS XT XW XX YA YB YC YD YE	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble Receiver Line Card Restored	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER A line card identified by the passed address is in trouble A line card identified by the passed address is restored	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Unused Line card number Unused Line card number Line card number
XM XQ XR XS XT XW XX YA YB YC YD	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble Receiver Line Card Restored Parameter	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER A line card identified by the passed address is in trouble	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Line card number Unused Line card number
XM XQ XR XS XT XW XX YA YB YC YD YF	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble Receiver Line Card Restored Parameter Checksum Fail	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER A line card identified by the passed address is in trouble System data corrupted	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Unused Line card number Unused Line card number Line card number Unused
XM XQ XR XS XT XW XX YA YB YC YD YE YF	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble Receiver Line Card Trouble Receiver Line Card Restored Parameter Checksum Fail Parameter Changed	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER A line card identified by the passed address is in trouble System data corrupted A TRANSMITTER'S parameters have been changed	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Line card number Unused Line card number Unused Line card number Unused Unused Unused Unused Unused Unused Unused
XM XQ XR XS XT XW XX YA YB YC YD YF	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble Receiver Line Card Restored Parameter Checksum Fail	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER A line card identified by the passed address is in trouble System data corrupted A TRANSMITTER'S parameters have been changed A trouble condition has been restored on a Local Bell, Siren, or	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Unused Line card number Unused Line card number Line card number Unused
XM XQ XR XS XT XW XX YA YB YC YD YE YF YG YH	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble Receiver Line Card Restored Parameter Checksum Fail Parameter Changed Bell Restored	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER A line card identified by the passed address is in trouble A line card identified by the passed address is restored System data corrupted A TRANSMITTER'S parameters have been changed A trouble condition has been restored on a Local Bell, Siren, or Annunciator	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Unused Line card number Unused Line card number Unused
XM XQ XR XS XT XW XX YA YB YC YD YE YF	RF Receiver Tamper Restoral Low Received Signal Strength Missing Alarm - Cross Point RF Interference Transmitter Battery Restoral RF Receiver Tamper Transmitter Battery Trouble Forced Point Fail to Test Bell Fault Busy Seconds Communications Fail Receiver Line Card Trouble Receiver Line Card Trouble Receiver Line Card Restored Parameter Checksum Fail Parameter Changed	A Tamper condition at a premises RF Receiver has been restored The RF signal strength of a reported event is below minimum level Missing Alarm verified by Cross Point in Alarm (or missing) A radio device is detecting RF Interference Low battery has been corrected A Tamper condition at a premises receiver is detected Low battery in wireless transmitter A point was forced out of the system at arm time A specific test from a panel was not received A trouble condition has been detected on a Local Bell, Siren, or Annunciator Percent of time receiver's line card is on-line RECEIVER and TRANSMITTER A line card identified by the passed address is in trouble System data corrupted A TRANSMITTER'S parameters have been changed A trouble condition has been restored on a Local Bell, Siren, or	Receiver number Receiver number Zone or point Receiver number Zone or point Receiver number Zone or point Zone or point Unused Line card number Unused Line card number Unused Line card number Unused Unused Unused Unused Unused Unused Unused

Data Code	Short Description	Long Description	Address Field
YK	Communications	TRANSMITTER has resumed communication with a RECEIVER	Unused
	Restoral		
YM	System Battery	TRANSMITTER/RECEIVER battery is missing	Unused
	Missing		
YN	Invalid Report	TRANSMITTER has sent a packet with invalid data	Unused
YO	Unknown Message	An unknown message was received from automation or the	Unused
		printer	
YP	Power Supply	TRANSMITTER/RECEIVER has a problem with the power supply	Unused
	Trouble		
YQ	Power Supply	TRANSMITTER'S/RECEIVER'S power supply has been restored	Unused
	Restored		
YR	System Battery	Low battery has been corrected	Unused
	Restoral		
YS	Communications	RECEIVER and TRANSMITTER	Unused
	Trouble		
YT	System Battery	Low battery in control/communicator	Unused
	Trouble		
YU	Diagnostic Error	An expansion/peripheral device is reporting a diagnostic error	Condition number
YW	Watchdog Reset	The TRANSMITTER created an internal reset	Unused
YX	Service Required	A TRANSMITTER/RECEIVER needs service	Unused
YY	Status Report	This is a header for an account status report transmission	Unused
YZ	Service Completed	Required TRANSMITTER / RECEIVER service completed	Mfr defined
ZA	Freeze Alarm	Low temperature detected at premises	Zone or point
ZB	Freeze Bypass	Low temperature detection has been bypassed	Zone or point
ZH	Freeze Alarm	Alarm condition eliminated	Zone or point
	Restore		
ZJ	Freeze Trouble	Trouble condition eliminated	Zone or point
	Restore		
ZR	Freeze Restoral	Alarm/trouble condition has been eliminated	Zone or point
ZS	Freeze Supervisory	Unsafe freeze detection system condition	Zone or point
ZT	Freeze Trouble	Zone disabled by fault	Zone or point
ZU	Freeze Unbypass	Low temperature detection bypass removed	Zone or point

APPENDIX F PROGRAMMING LINE & RADIO FORMATS

Line Formats

System

 ${\tt PAF/NPAF/EPAF/PID,\ DESK\ .\ If\ the\ system's\ ContactID=1,\ the\ account\ is\ in\ Hex.}$

Flags

Additional 35.8 mlSec, for pulse protocol in 143mlSec

Radio Formats

System

KP5 bit7...bit2 -5-th byte, b2...b1 – system (b11...b10)

All other system formats are as is

Flags

bit0 - Account BIN

bit1 - Account MSB BIN

bit2 - Account MSB to LSB

bit3 - bit15 is part of Account

bit4 - INTRAC2000 Event Unary/VISONIC2000 bit16 part of Event

bit5 - Parity invert (ODD)

bit6 - Enable bit0 in PAF System

bit7 - SYNC OFF required

Extra

bit0 - bit0 value

bit1 - bit24 (INTRAC2000)/bit10 (MILCOLD) value

bit2 - bit25 (INTRAC2000)/bit11 (MILCOLD, DESK) value

bit3 - spare value

bit4 - bit0 mask

bit5 - bit24 (INTRAC2000)/bit10 (MILCOLD) mask

bit6 - bit25 (INTRAC2000)/bit11 (MILCOLD, DESK) mask bit7 - spare mask

Repeater Formats

The supported are PAF/NPAF/EPAF and all 4x2 compatibles Format: Source format Flags & Extra N/A

PIMA Electronic Systems Ltd. shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function

Please refer to a separate warranty statement found on PIMA website at:

http://www.pima-alarms.com/site/Content/t1.asp?pid=472&sid=57

Warning: The user should follow the installation and operation instructions and among other things test the Product and the whole system at least once a week. For various reasons, including, but not limited to, changes in environment conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.

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All efforts have been made to ensure that the content of this manual is accurate. Pima retains the right to modify this manual or any part thereof, from time to time, without serving any prior notice of such modification.

Please read this manual in its entirety before attempting to program or operate your system. Should you misunderstand any part of this manual, please contact the supplier or installer of this system.

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