EXPANDABLE MULTIFUNCTION CONTROL PANEL





# INSTALLATION MANUAL Vol.2



This system can be programmed using the respective (KYO320) Software Application 5.4.3 or higher.

Installation of the system must be carried out strictly in accordance with the instructions described in this manual, and in compliance with the local laws and bylaws in force.

The KYO320 Control panels have been designed and manufactured to the highest standards of quality and performance.

The **KYO320** Control panels have no user-friendly components, therefore, should be serviced by authorized personnel only.

BENTEL SECURITY shall not assume the responsibility for damage arising from improper application or use.

The manufacturer recommends that the installed system should be completely tested at least once a month.

Hereby, Bentel Security, declares that **KYO320** Control panels comply with the essential requirements and other relevant provisions of Directive **1999/5/EC**.

#### ATTENTION:

The control keypads of KYO320 control panel are the CLASSIKA and PREMIUM LCD keypads. All previous Bentel LCD keypads (Alison-S, Alison-DVP, Mia-S, Mia-D) continue to be supported by the KYO320 Control panel. For a correct functionality of PREMIUM and CLASSIKA LCD keypad, the KYO 320 control panel must have a firmware rev. 2.06 or higher.

Kyo320 control panel supports both the new key readers of the ECLIPSE2 serie that the previous versions of ECLIPSE serie.

#### **Recycling information**

BENTEL SECURITY recommends that customers dispose of their used equipments (panels, detectors, sirens, and other devices) in an environmentally sound manner. Potential methods include reuse of parts or whole products and recycling of products, components, and/or materials.

For specific information see: www.bentelsecurity.com/en/environment.htm

#### Waste Electrical and Electronic Equipment (WEEE) Directive



In the European Union, this label indicates that this product should NOT be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling.

For specific information see: www.bentelsecurity.com/en/environment.htm

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Figura 1 Control Panel keypads: a) PREMIUM LCD; b) CLASSIKA LCD.

# Introduction

You can operate your system from PREMIUM LCD and CLASSIKA LCD keypads, using the following options: **Event logger**: this option will allow you to view the Event Logger.

**Zone status**: this option will allow you to view the zone status and level.

**Zone test**: this option will allow you to test the functionality of zones without generating alarms.

**Output test**: this option will allow you to activate/test preset Outputs.

**Clear call queue**: this option will allow you to stop outgoing Alarm calls.

**Voice functions**: this option will allow you to Record/ Playback voice messages (requires **K3/VOX2** kit).

**Installer PIN**: this option will allow you to program the Installer Code PINs.

**User codes**: this option will allow you to program the User code attributes.

**Digital keys**: this option will allow you to enrol electronic keys.

**Program panel**: this option will allow you to program the Control panel parameters.

**Enrol wireless**: this option will allow you to enrol wireless detectors, keys and cards and carry out placement tests.

**Update strings**: this option will allow you to update the PREMIUM LCd and CLASSIKA LCD keypad strings.

**Change time/date**: this option will allow you to set the Control panel clock.

**Release**: this option will allow you to view the Control panel release.

**Test Keypad**: this option will allow you to test the display, LEDs and buzzer.

**Reset warning lithium**: this option will allow you to clear the battery fault signal.

NOTE: The following options and parameters CANNOT BE programmed from Keypads:— the Sensitivity of the hardwired zones; the Contact ID, and SIA code of Digital Communicator, —the Scheduler parameters, except for Max. no. overtime Requests and Overtime Request;

-the Timers;

—Enable Keypad Codes/Keys/Cards (LCD/LED Keypads);

The following operations CAN BE DONE from Keypads ONLY:

- -Record and Playback Voice Messages;
- -Request Log printout;
- —Enrol/Unenrol the K-NET module.

# Using the keypad

Read the following section carefully, to get an overall view of how to use the Function keys.

#### Function keys

Unless otherwise stated, the keys operate as follows: **A** and **B** scroll the menus;

C and D move along the display lines;

ON and OFF enable/disable options instantly;

ESC quits the entry and steps back;

ENTER saves the entry and allows you to continue.

#### Audible signalling

**Buzz**: this is the audible error signal emitted by the keypad when commands are denied.

#### Parameter Descriptions

This manual describes how to program and operate the Control panel from a keypad.

A complete description of the system functions and parameters can be found in the INSTALLATION MANUAL. Indications as where to look in the INSTALLATION MANUAL are shown in brackets (the parts underlined in inverted commas) next to the respective function/parameter.

#### Editing a text

The following table shows the letters (small and capital) and punctuation marks provided by the keys. To edit a text, press the respective until the required character is shown.

1		1		-	5	#	\$	2	,		(	>	Ľ	]	<	>	
2	a	ь	с	A	в	С	2	3	d	e	f	D	Е	F	3		
4	g	h	i	G	Н	I	4	5	j	k	1	J	К	L	5		
6	m	n	0	М	N	0	6	7	Ρ	q	r	s	Ρ	Q	R	s	7
8	t	u	v	Т	U	Ų	8	9	ω	×	у	z	W	Х	Ŷ	z	9
0		0	÷	-	*	/		:	5	<	>	?	8	a	~		

Use **D** to move along the display lines.

Use  ${\bf D}$  or  ${\bf C}$  to scroll the text: the selected character will blink.

Use 0 or 1 for spaces between letters.

#### Enable Partitions in A, B, C or D Mode

Keys **1** to **8** will allow you to enable/disable the Partitions and set up A, B, C and D operating Mode. The first eight positions on the bottom line of the display (1 through 8) indicate the Partition status, as follows:  $\approx$ — the element concerned is enabled on, or assigned to the respective Partition;

- Away mode (ALL Zones ON);
- S- Stay mode ("Internal" Zones OFF);
- I Instant mode (Stay mode with zero delay);
- D— Disarm;
- N—No change to the current status (None).

In order to allow you to program the 32 Partitions of the KYO 320, from the keypad, this programming section has been divided into 4 Partition groups:

1st group — Partitions 1 to 8;

2nd group — Partitions 9 to 16;

3rd group — Partitions 17 to 24;

4th group — Partitions 25 to 32.

Keys 1 to 8 correspond respectively to the first 8 Partitions. For Partitions 9 to 16 — key **1** corresponds to Partition 9, key **2** to Partition 10 and so forth to key **8** which corresponds to Partition 16. The same applies to Partitions 17 to 24 and 25 to 32 (see Table) :

KEYS		1	2	3	4	5	6	7	8
	1-8	1	2	3	4	5	6	7	8
Keys to use for	9-16	9	10	11	12	13	14	15	16
Partition	17-24	17	18	19	20	21	22	23	24
groups	25-32	25	26	27	28	29	30	31	32
DISPLAY	1	2	3	4	5	6	7	8	

In Partition group 1 to 8, key **2** and position 2 on the display correspond to Partition 2.

KEYS		1	2	3	4	5	6	7	8
	1-8	1	2	3	4	5	6	7	8
Keys to use for	9-16	9	10	11	12	13	14	15	16
Partition	17-24	17	18	19	20	21	22	23	24
groups	25-32	25	26	27	28	29	30	31	32
DISPLAY	,	1	2	3	4	5	6	7	8

In Partition group 9 to 16, key **2** and position 2 on the display correspond to Partition 10.



KEYS		1	2	3	4	5	6	7	8
	1-8	1	2	3	4	5	6	7	8
Keys to use for	9-16	9	10	11	12	13	14	15	16
Partition	17-24	17	18	19	20	21	22	23	24
groups	25-32	25	26	27	28	29	30	31	32
DISPLAY	1	2	3	4	5	6	7	8	

Press  $\mathbf{C}$  or  $\mathbf{D}$  to view the required section.

# Accessing the Installer menu

When the system starts, on the display keypad is possible to select the programming languages:

1:	<ita></ita>	2:ENG
3:	ESP	4:FRA

**1.** Enter the number which corresponds to language and then press **ENTER**.

**2**. only if the system has a number of PREMIUM LCD and CLASSIKA LCD keypads greater than 5, the update strings fase follows.

Access to the programming phase will be denied when the Partitions are Armed or the Partition Patrol Times are Active.

NOTE: If the system is already up and working, access requires the consent of all the system users.

To access the Installer menu from standby status:

#### 1. Enter an Active Installer Code PIN.

1	1	.50	27/08/2002
P	i	n:	****

At default, only Installer Code no. 200 (PIN **0200**) has **Active** status for KYO 320.

#### 2. Press ENTER

INST	ALL	ER	MENU
Even	t 1	099	er

Once you have accessed the Installer menu, the Control panel will:

- set all the keypads to standby status, except the one you are using (the label of the keypad concerned will be shown on all the system keypads);
- clear all the Alarm memories;
- set all the Outputs to standby;
- Iock the event evaluation;
- interrupt ongoing calls (if necessary), and put the Call queue on hold.

Teleservice calls will NOT be interrupted.

#### **Exiting the Installer menu** To exit the Installer menu, press **ESC**:

INSTALLER MENU Confirm?

Press **ENTER** to confirm to exit the Installer menu. If you press **ESC** you will be in the programming fase. When you exit the Installer menu, only if the system has a number of PREMIUM LCD and CLASSIKA LCD keypads greater than 5, the update strings fase follows.

If you exit the PROGRAMMING menu after changing the parameters of the Receiver or a wireless key, the display may show the following message

p	R	0	6			W	S		R	Е	C	Е	Ι	Ļ	I
	P	L	E	A	S	E	W	ĥ	Ι	T					

If the Control Panel has not programmed the Receiver, the display will show the following message:

PROG.	WLS	RECEIU	
ERR	OR		

If this occurs, check that the Receiver is operating properly. If you exit the PROGRAMMING menu the Control panel will: > set the keypad to standby status;

- reset the zone cvcle counter:
- reset the zone cycle counter;
- clear the BPI, Tamper and False key/card warnings;
- ignore the open Main unit event (until after closure);
- restart the Call queue from the interrupted call.
- The Control panel will generate a "Start Programming" event each time you exit the INSTALLER MENU (this event will be signalled on the ▲ indicator on the Keypads, and by the Start Program. message in **View Trouble** mode).

"Start Programming" events can be deleted by Active User Codes only, via the **Reset PC Prog.** from the USER MENU.

# **Event logger**

This command will allow you to view and print the events in the Event Logger. The KYO 320 Event logger can store up to 10,000 events. Events are stored in chronological order —starting from the most recent event.

Each event provides the following information:

- Ev. (Event number)
- >TYPE (e.g. Zone Alarm, Invalid Code, etc.)
- > **IDENT** (e.g. Zone number, Partition, etc.)
- >AGENT (e.g. Keypad, Reader, etc.)
- > ID.AGEN (e.g. User code, Card/Key, etc.)
- **TIME** (Time and Date of the event)

From the Installer menu:

INST	TALL	.ER	MENU
Eve	ent	109	99er

# **1.** Using **A** or **B**, select the **Event logger** option, then press **ENTER**.

EVENT		LOGGER
from	1	ast

#### To view all Events

Press the **ENTER** key to view all the Events in the Logger —starting from the most recent (from last . . ). Use **A** and **B** to scroll the Events. Press **D** to view the Event details.

#### To view Events from a specific Date

Using **A** or **B** scroll for the following prompt:

EVENT	LOGGER
starti	n9 from

Press the **ENTER** key, the display will show the Date prompt.

star	ting	from.	
27	/08/3	2002	

Enter the required Date (DD/MM/YYYY), then press the **ENTER** key. Use **A** and **B** to scroll the Events. Press **D** to view the Event details (see above).

Ev.	00033	TYPE
Vie	win9	buffer

The display will show the details of each Event. For example, Tamper Events show the TYPE and TIME only.

#### To Print Events from a specific Date

EVENT	LOGGER
Print	from

Using **A** or **B**, scroll for the following prompt:

IS You will not be able to select the **Print from** ... option if the **Print Logger** option is enabled (refer to "Print Logger" under "Configuration" in the "PROGRAM PANEL" section).

Press the **ENTER** key, the display will show the Date prompt.

Pri	nt from.	
27	/08/2002	

Enter **all** the digits of the required Date (DD/MM/YYYY), then press the **ENTER** key. The Keypad will exit the INSTALLER MENU, and the Printer will print the Events starting from the entered date to the most recent.

This function is provided by the optional **K3-PRT2** Printer Interface.

#### The Event logger

The Event logger is set up as follows:

- the Event number (Ev.) is shown on the left side of the first line;
- the Event details (TYPE, IDENT., USER, USER ID, TIME) are shown on the second line.

Using the Event Logger:

- Use A and B to scroll the Events.
- Press D to view the Event details (see above).
- Press ESC to step back to the Event Logger menu.

The display will show the details of each Event. For example, Tamper Events show the TYPE and TIME only.

### **Zone status**

This option will allow you to view the status of the zones (Standby, Alarm, Tamper, Short-circuit or Bypassed, and also the Zone voltage level). This option is important during installation and placement tests.

*Double-balance* zones can signal **Short-circuit**, **Standby**, **Alarm** or **Tamper** status.

Balance zones can signal **Short-circuit**, **Standby** or **Alarm** status. *NC* and *NO* zones can signal **Standby** or **Alarm** only. If a zone is about to change status, the display may show the intermediate status before showing the final status.

IS For example, if a Double Balance zone is changing from Standby to Tamper, the Zone status option may indicate Alarm Status for several seconds before finally showing Tamper status.

To view the Zone status, work carefully through the following steps.

From the Installer menu:

INS	TAL	LE	R	MENU
Eve	ent	10	99	er

**1.** Using **A** or **B**, select the **Zone status** option, then press **ENTER**.



**2.**Using **A** or **B**, scroll the zones or enter the zone ID number (three digits required).

**NOTE:** Wrong entries will be signalled by an audible error signal.

zone	n.	002
Stair	case	Window

3.Press ENTER to view the status.

Staircase Window STBY UNBYPASSED

**4.** Press **ENTER** again to view the Zone Resistance (in ohm, see the example below).

Staircase	Window
4265 ohm	

5. Press ESC to go back to the Installer menu.

On the contrary, if you press **ENTER** it is possible to check, one at time, the zone with "Vibration" attribute (if in programming fase the same zone has been programmed with "Vibration" attribute and has been programmed the sensitivity and the pulse number):

Zone n.	001	
Vibrat.	Test	001

### Zone test

This option will allow you to test all the partition zones without generating alarms. The Test event will be recorded in the event logger as: <Alarm - Zone under test>. The following events may also be recorded in the logger: keypad buzzer or activation of Output 1; or keypad buzzer+activation of Output 1.

From the Installer menu:

Ι	ŀ	S	Т	A	L	L	Е	R	Μ	E	ŀ	-	L	J
Е	Ç,	e	n	t		1	o	99	e	r				

**1.**Using **A** or **B**, select the **Zone test** option, then press **ENTER**.

Zone test Logger only

2.Using A or B, select Test mode, then press ENTER.

Ρ.	3	r	t	i	t	i	o	n	99	Ľ	1
T	-	5	t			0	Ы				

3. Using A or B, select the Partition the zones belong to.



**4.**Using **ON** or **OFF** respectively, to activate/stop the test for the partition concerned. Press **ENTER** to run the test.

Test running...

**NOTE:** The Zone status (Activated or Restored) will be recorded in the Event Logger.

5. Press ESC to go back to the Installer menu

# Output test

This option will allow you to test the system Outputs. From the Installer menu:

INS.	TAL	L	EF	2	ME	NL.	
Ever	nt.	1	o§	99	er		

#### 1.Using A or B, select the Outputs test option.

INSTALLER MENU outputs test

**2.** Press **ENTER**, a description of the first Control panel Output will be shown.

Output n. 001 Bur9lar Siren

3.Using A or B, select the required Output.4.Press ENTER, then ON or OFF, respectively, to activate/stop the selected Output.

5.Press ESC to go back to the Installer menu.

# Clear call queue

The option will allow you to clear all the telephone calls in the outgoing Call queue.

From the Installer menu:

INST	ALL	ER	MENU
Even	t 1	099	er

**1.**Using **A** or **B**, select the **Clear call queue** option, then press **ENTER**.

CLE	AR	C	<u>-</u>	L	QU	EVE
	Con	£	ir	m?		

**2.** Press **ENTER** again, the Call Queue will clear, and the system will go back to the Installer menu.

CLEAR CALL	QUEVE
done!	

# Voice functions (K3/VOX2 only)

These functions are provided by the **K3/VOX2** Voice Board (accessory item). If the system is not equipped with a **K3/VOX2** board, the **Voice functions** option will not be shown on the Installer menu. The **K3/VOX2** Voice Board will allow the system to manage up to 64 voice messages — all with programmable quality and duration. The total message time depends on sound quality, and ranges from approximately 3 minutes 48 seconds — for good sound quality, to approximately 8 minutes 44 seconds — for average sound quality. The recorded messages can be associated with the Control panel Inputs for Telephone access, or sent to preset telephone numbers (Dialler function), or used as Answer messages (Answering machine function).

#### From the Installer menu:

INST	ALI	_ER	MENU
Even	t :	1099	er

# **1.**Using **A** or **B**, select the **Voice functions** option, then press **ENTER**.

VOICE FUNCTIONS
Record messa9e

# 2.Using A or B, select the Record message, Play message or Delete messages option.

VOICE	FUNCTIONS
Play	messa9e

#### Recording

To record a voice message:

VOICE F	UNCTIONS
Record	messa9e

#### 3.Press ENTER.

REC	MESS	AGE 01
Mess	sa9e	001

**4.**Using **A** or **B**, select the message.

REC	MES	SAGE	02
Mess	a9e	88	2

The Message description (maximum 16 characters) will be shown on the second line of the display.

This description can be edited via PC or keypad by accessing the "Keypad Programming" section on the Installer menu.

#### 5.Press ENTER.

Qual	ity	
Exce	llent	

**6.** Using **A** or **B**, select the recording quality: Excellent, Good, Average and poor and press **ENTER**:

Seconds	180	
Start rec	ord.	

The message length (the example shows 180 seconds) depend on selected message quality.

**7.** Press **ENTER** to start the recording phase, the following message will be shown:

Seconds	1	80
Remainin9Sec.	1	50

The second line of display shows the remaining time to record, so it is easy to check the message length.

**8.** Speak at about 20 cm from the microphone. The message must be recorded within the message time. Once you have finished recording the message, you can either continue recording or go back to the Installer menu by pressing **ESC**.

#### Playback

To play the recorded messages:

#### 3a. Press ENTER.

PLAY	MESSAG	E 01
Messa	9e Ø	01

#### 4a. Using A or B, select the message.

PLAY	MESSA	GE 02
Messa	90	002

#### 5a. Press ENTER

Seconds		002
Start p	lay	

#### 6a. Press ENTER again.

The Voice board will playback the selected message (the message length will be shown on the display). Once the message has ended, you can either continue listening or, go back to the step **2**. of the procedure by pressing **ESC**.

#### Delete

To delete all messages work carefully through the following steps:

VOI	CE F	UNCT	IONS
Del	ete	messa	a9es

#### 3b. Press ENTER

Delete	messa9es
Con	firm?

**ATTENTION**: if press **ENTER** again, **all the messages** will be deleted and then the procedure go back to step **2**.

### **Installer PIN**

The Installer PINs can access the INSTALLER MENU and Teleservice. This Control panel manages 5 Installer codes: **196**, **197**, **198**, **199** and **200**. Installer code **200** has **Father** code status and is already **Active** at default, therefore, it can be used to change the PINs of all the other Installer Codes, and also its own (**0200** at default). Installer Codes **196**, **197**, **198** and **199** have **Son** status, therefore, can change their own PINs only (respectively **0196**, **0197**, **0198**, **0199** at default).

The default Installer PINs should be changed for security reasons. To change the Installer PINs, work carefully through the following steps. From the Installer menu:assistenza. Il PIN Installatore può essere modificato come descritto di seguito: dal menù installatore:

Ι	ŀ		S	T	-	A	L	L	Е	R		М	Е	ŀ		l	
Е	Ģ	1	0	r	ľ	t		1	O	9	9	9	r				

#### 1. Using A or B, select the Installer PIN option.

Ι	Ы	S	Т	Α	L	L	Е	R	MENU
Ι	n	s	t.	a	1	1	e	r	PIN

#### 2. Press ENTER.

 NOTE: If you access the menu using Installer Code 200 (PIN 0200 at default), you will go to step
 If you access the menu using one of the other Installer Codes (0196, 0197, 0198 or 0199 at default), you will go to step 5.

Installer	PIN
Code	196

**3.**Using **A** or **B**, select an Installer code then press **ENTER**.

Code	196
Not	active

**4.**Using **ON** or **OFF**, enable (**Active**) or disable (**Not active**) the code concerned, then press **ENTER**.

ONLY code no. 200 can assign Active or Not active status to the other Installer Codes



**5.**Enter the new PIN, then press **ENTER**. This programming field accepts 4, 5 or 6 digits.

NOTE: If you enter a PIN with less than 4 digits the keypad will emit an audible error signal and wait for a valid PIN.

Repeat new pin pin: xxxxxx

**6.** Enter the new PIN again, then press **ENTER**. The keypad will step back to the start of the procedure.

INSTALL	.ER	MENU
Install	ler	PIN

IS You cannot assign default PINs (refer to Table 10 on page 38).

If you attempt to assign a default PIN, the display will show the following message:

Repeat new PIN Invalid code!

- IS You cannot assign a PIN which already exists on the system.
- Installer PIN allowed, for the 4-digit PINs: from 0201 to 9999 (0200 not usable), for the 5-digit PINs from 00001 to 99999, for the 6-digit PINs from 000001 to 999999.

If you attempt to assign a duplicate PIN, the display will show the following message:

Repe	at	new	Р	Ι	Ы	
Dupl	ica	rted	Р	Ι	Ы	!

This message means that another User is using the PIN concerned, therefore, the Control panel will consider the Code to be "Uncovered" and, for security reasons, will automatically restore the default PIN of the Code concerned. If a User attempts to access the system using an "Uncovered" PIN the display will show the following message:

17:05 26/08/2006 Uncovered PIN!

"Uncovered" PINs must be reprogrammed (refer to Table 10 on page 38).

"Uncovered" PINs will be signalled by:

- the A LED (ON) on the Keypad
- the Uncovered PIN! message in View Trouble mode

≻the Event details in the Logger

TYPE = Uncovered PIN

IDENT. = the Keypad used

TIME = Time and Date of the Event

The Trouble status will clear as soon as a New PIN (other than the default PIN) is assigned to the "Uncovered" Code.

# **User codes**

The Installer code can:

- enable (make Active) the necessary number of User codes (maximum 195)
- > enable the User codes on specific Partitions
- define the A, B, C and D Arming modes of each User code
- define the Father codes of each User code (for Codes 1 to 131 only)
- define the access level of each User code (refer to "Control Panel Programming")

A Father code can enable/disable the **Active** status of its Son codes and change their PINs.

 For full details on User Code programming, refer to "Code Type" under "Control Panel Programming".
 To program the User code parameters, carefully work through the following steps. From the Installer menu:

INSTALLER MENU Event logger

#### 1. Using A or B, select the User codes option.

INST	ALLER	MENU
User	codes	

#### 2. Press ENTER.

Code	n.	001
Code		001

**3.** Using **A** or **B**,select the required Code, or enter the Code ID number. To go back to the INSTALLER MENU, press **ESC**.

Code	n.	002
Code		002

#### 4. Press ENTER

Description	
Code	002

**5.** Enter the Code Description (refer to "Editing a text" under "Using the Keypad"), then press **ENTER**.

Code	Type n.	001
User	type	881

**6.** Using **A** or **B**, select the required User Type then Press **I**. 16 User Types are available (in the example the User Type is 001). You can program the description of the User Type via the "Code Type" option from the "Control Panel Programming" menu.

Max Num.	access
Always	

7. Enter the maximum number of times the User Code concerned will be allowed to access the system (refer to "User Menu Access") or, using **0** select the Fluess option to allow unlimited use. Press **ENTER** to confirm and go to the next step.

Ass.	t	i	mer	n.	
None	•				

8. Using A or B, select the required Timer (refer to "<u>Associated Timer</u>"), or enter its ID Number. If you do not require a Timer, using 0 select the None option. Press ENTER to confirm and go to the next step.

Partition	1_8
XXXXXXXX	

**9.** Enable the Code on the Partitions (refer to "Enabling Partitions and A, B, C and D Mode" under "Using the Keypad"), then press **ENTER**.

A arm.mode	1_8
ААААААА	

**10.** Setup the **A Arming** mode configuration (refer to "Enabling Partitions and A, B, C and D Mode" under "Using the Keypad"), then press **ENTER**.

A arm.mode	1_8
IDNDDADD	

In the example above, the Code concerned will Arm partition 1 in Instant mode, Arm partition 6 in Away mode, Disarm partitions 2, 4, 5, 7 and 8 but will not affect partition 3.

**11.** Program **B**, **C** and **D Arming** modes. The procedure is the same as for **A Arming** mode. If you press **ENTER** whilst you programming **D Arming** mode, you will go to the next step.

Options	
Duress	

12. Using A or B, scroll for the required option: **Duress** (refer to "<u>Duress Code</u>"), **Patrol** (refer to "<u>Patrol Code</u>") or **Available**, then press **ON** or **OFF** to enable/disable the option concerned. Press **ENTER** to confirm and go to step **13.** (if the **Available** option is enabled), or step **14.** (if the **Available** option is enabled).

- An 'Available' Code will become 'Active' automatically, if its ID number is lower than 131 (131 not included) for KYO 320, it will become the sole Father Code of itself. If the Code ID number is higher than 131 (131 included) for KYO 320, the system will assign the first 'Available' Code as its Father Code.
- You cannot change the status of an Active Code from Enrolled (able to perform its enabled functions) to Unenrolled (unable to perform its enabled functions) until it has been Disabled via the User menu (this operation can be carried out by its Father Codes only).
- Each code can have up to 3 Father codes. A code can be programmed as its own Father. By default, Code 001 is its own Father. Codes 002 to 131 have two Father codes: themselves and code 001. Codes 132 to 195 (Telephone access codes) have one Father code, that is, code 001. Codes 132 to 195 cannot be programmed as Father codes.

Father	PIN ?
PIN:	XXXXXX

**13.** To disable a code (make **NOT Active**), enter the PIN of a valid Father Code, then press **ENTER** and go back to step 3.

The "Father PIN?" prompt will remain on the display until you enter a valid PIN.

Father	1	Ν.	001
Code			001

**14.** Using **A** or **B**, select the code to be programmed as Father Code 1, or enter the Code ID number.

**16.** Press **ENTER** to save Father Code 1, then program Father Code 2 and Father Code 3. Press **ENTER** to save Father Code 3, and go to step 3.

# **Digital Keys**

To program the Digital keys, refer to "Keys" under "Control Panel Programming". The **Digital Keys** option will allow you to enrol Digital keys.

From the Installer menu:

INSTAL	L	ER MENU
Event	1	ogger

1.Using A or B, select the Digital Keys option:

INS	TALI	LER	MENU
Dig	ita	l ke	95

2. Press ENTER.

Reader	::	01
Reader		881

The top line of the display will show the ID number of the first Reader in the configuration, while the bottom line will show the Reader label (Description).

At least one Reader must be enrolled in order to provide this option.

**3.** Using **A** or **B**, select the Reader that you intend to use for the enrolling procedure:

Reader	÷	82
Reader		002

4. Press ENTER.

Digital	key:	001
Digital	key	001

**5.** Using **A** or **B** ,select the key to be enrolled, then press **ENTER**. The key label (Description) will blink to indicate that the system is ready to enrol the key, hold it in the vicinity of a Proximity Reader). When the system has enrolled, and consequently enabled the key, the GREEN LED will turn ON and the system will go to the next Key and allow you to continue. To step back to the Installer menu, press **ESC**.

# **Program Panel**

The Control panel parameters can be programmed via keypad, refer to the "PROGRAM PANEL" section for details and instructions.

# **Enroll wireless**

The **Enrol wireless** option will allow you to enrol wireless devices (detectors and keys), and perform the Placement Test.

From the Installer menu:

INS	TAL	L	ER	MENU
Eve	nt	1	099	Jer

1. Using A or B, select the Enrol wireless option:

INS	TAL	LE	R	MENU
Enr	ol	wi	re	less

#### 2. Press ENTER:

ENROLL	WIRELESS
Enrol	detectors

 If the Receiver has not been enrolled, the display will show the following message:

 [₩ARNING!
 ✓ No Receiver!].

**3.** Using **A** or **B**, select **Enrol detectors**, **Enrol WLS keys** or **WLS Placement Test**, then press **ENTER**.

#### From Enrol sensors:

ENROL	WIRELESS
Zone	281

**4.** Using **A** or **B**, assign the wireless detector to a zone, then press **ENTER**:

Zone	281
Serial	#:000000

Enter the Electronic Serial Number (ESN) of the wireless detector. The ESN (6 digits) is printed on the back of each wireless device. This Control panel accepts 6-digit ESNs only. To correct wrong entries, press e then enter the correct digit. The ESN may comprise hexadecimal digits (A, B, C, D, E and F: use **A**, **B**, **C**, **D**,**ON** and **OFF**, respectively). The ESN will allow the Control panel to identify the wireless device.

NOTE: To unenrol wireless detectors, enter the ESN 000000 then press ENTER to confirm.

#### 5. Press ENTER.

ENROL	WIRELESS
Zone	281

**6.** Use **A** or **B** to continue enrolling. Acceptance will be confirmed by the following message:

ENROL	WIRELESS
Enrol	ok !

When all the wireless detectors have been enrolled, press **ESC** to go back to step 3 then, if you want to enrol wireless keys, select the **Enrol WLS Keys** option:

### Enrol WLS Keys

ENROL	WIRELESS
Enrol	WLSKey

#### 4a. Press ENTER.

ENROL	WI	RELE	SS
Wireles	s	key	001

**5a.** Using **A** or **B**, select the wireless key to be enrolled, then press **ENTER**.

Wirel	ess	kеу	001
Seria	al ##	000	1999

Wireless keys are enrolled in the same way as wireless detectors. When you have enrolled all the wireless keys, press **ESC** to go back to step 3 then select the **Placement Test** option, in order to test the transmission signal between the Receiver and the wireless detectors. All placements should be tested before mounting the wireless detectors.

ENROL	WIRE	ELESS
Place	ment	test

#### 4b. Press ENTER.

WLSP	lacementTest
Zone	281

**5b.** Using **A** or **B**, select the zone of the wireless detector to be tested, then press **ENTER**.

Wa	<u>i</u> 1	 ŀ.	e	\$ u	1	t.	 	

**6b.**Activate the wireless detector (refer to "Activating Wireless Detectors"), then check the Test result on the display.

Wait result	
Good!	

If the result is **good**, run further tests until you obtain three consecutive **good** results. Press **ESC** to go back to step 6b. If the result is **bad**, move the Detector to another location and repeat the test. Sometimes a matter of a few inches can correct a Bad result.

If an **Error** is signalled, enrol the wireless detector again. To go back to the Installer menu, press **ESC**. Wireless detectors should not be located in places that give "bad" test results.

If several devices produce "Bad" results, it may be due to the Receiver, in which case, move the Receiver to another location (for suggestions regarding Receiver placement, refer to "Choosing a mounting location" under "Wireless Receiver" in the "INSTALLATION MANUAL APPENDIX").

### Activating Wireless Detectors

**AMD20** - To Test an AMD20 wireless detector, remove it from its backplate then reattach it. The LED will blink 5 times to indicate that a signal has been sent. The result will be shown on the keypad display. Repeat the procedure until you obtain 3 successive "Good" results.

# Be careful not to damage the Tamper microswitch when relocating the Detector to the bracket.

Removal of a wireless detector from its bracket (detector tamper) will activate the "Placement Test" mode. During this status, the wireless detector will activate the LED each time it detects motion, and will also send a signal to the Receiver (5 seconds after detecting motion). The detector LED will blink 5 times to indicate that the transmission signals have been sent. The LED will operate in this way for 10 motion detections after a tamper/restore. These transmissions will be ignored by the Receiver during the Placement Test. The only time the Receiver will acknowledge a Placement Test is when a detector is removed from its bracket then replaced.

ASD20 - To run the Placement Test on an ASD20,

remove it from its bracket, wait 5 seconds then reattach it, or move a magnet towards the notch on the outer edge of the detector, then move it away.

**AMC30** - To run the Placement Test on an AMC30 detector, open the contact by moving the magnet away from the unit. The Test result will be shown on the keypad display. After the first result (about 10 seconds), close the contact to generate another Test. If the unit is attached to a door or window, open and close the door or the window to activate the device.

# **Updating Strings**

IS Only if the system has a number of PREMIUM LCD and CLASSIKA LCD keypads greater than 5, the update strings fase follows, otherwise the update strings fase has no effects.

The Keypad Strings are stored in the Keypad memory, therefore, any changes made at a Keypad or via PC must be broadcasted to all the system Keypads. Each time you exit a programming session via Keypad or PC, the Control panel will check the Strings, if any changes are found, it will update all the system keypads automatically. IS Under certain circumstances, the Control panel is unable to detect changes, therefore, will not update the system Keypads. For example, if you 'swap' the description of two objects, the Control panel will be unable to detect the changeover and therefore will not update the system Keypads.

The **Update strings** option will allow you to update at any time. As this operation takes 4 or 5 minutes, the system will always request command confirmation.

U	Þ	d	a	t	e		s	t	r	i	r	19	s	
l	C	o	n	f	i	r	m	?						

To confirm the Update, press ENTER.

Update strings Done!

During the Update broadcast, all the system keypads will lock and their displays will blink.

Once the update has been done, the system will go back to the Installer menu.

# Change time/date

The **Change time/date** option will allow you to set up the Control panel clock.

From the Installer menu:

INST	"ALL	.ER	MENU
Ever	nt l	099	er

**1.** Using **A** or **B**, select **Change time/date** option, then press **ENTER**.



**2.** Enter the New Time and Date, then press **ENTER** to confirm and go to the next step (Date format), or **ESC** to quit and step back to the USER MENU.

The New Time and Date field will not allow you to change the digits individually, therefore, you must enter the entire Time and Date. If you press ENTER before completion, the setting will be deleted.

date format hh:mm dd/mm/9999

3. Using A or B select Date format:

hh:mm dd/mm/yyyy hh:mm mm/dd/yyyy hh:mm yyyy/mm/dd

then press ESC to confirm and go back to step 2

# Release

The **Release** option will allow you to view of the Control panel firmware release. From the Installer menu:

INSTALLER MENU Event logger

#### 1. Using A or B, select the Release option.

INST	AL.	L	ER	MENU	
R	el	e	ase		

#### 2. Press ENTER.

rev. f	i	rmw	ar	e	:
KY0328			2.	0	6

3. To go back to the Installer menu, press ESC.

#### keypad

The **keypad** option will allow you to test the keypad display, LEDs and buzzer.

From the Installer menu:

INST	ALL	_ER	MENU
Even	t. 1	logg	er

#### 1. Using A or B, select the Test keypad option.

INST	al L	ER	MENU
Keypa	ad		

#### 2. Press ENTER:

Keypad	
Lan9ua9e	

#### 3. Press ENTER:

1:	<ita></ita>	2:	ENG
3:	ESP	4:	FRA

is possible to select the programming languages: enter the number which corresponds to language and then press **ENTER**.

Keypad	
Language	

#### 4. Using A or B, to select:

Кеур	ad	
Test	keypad	

#### 5. Press ENTER

ABCI	DEF	GHI	JKL	MNOP
ABCI	DEF	GHI	JKL	MNOP

If the keypad display is operating properly, it will show the letters A to P on the top and bottom line. If the LEDs  $\bullet$ ,  $\clubsuit$ ,  $\clubsuit$  and  $\clubsuit$  are operating properly, they will blink for several seconds. If the buzzer is operating properly, it will emit three beeps.

# **Reset warning lithium**

The **Reset warning lithium** option will allow you to clear the trouble signals generated by the RAM battery.

Image Under normal circumstances, the battery should last about two years, after which it must be replaced. This Control panel monitors the battery life starting from the last **Reset Lithium battery** operation, but DOES NOT monitor the battery charge.

From the Installer menu:

INS	TAL	LE	Rľ	1ENI	
Eve	nt	lo	990	er	

1. Using A or B, select the Reset warning lithium.

INST	ALLER	MENU
Res.	warn.	lithium

#### 2. Press ENTER:

INST	ALLER.	MENU
Do	me!	

The Keypad will indicate that the operation has been caried out and then will go back to step 2.

### Serial Ports

From the Installer menu:

1. Using A or B, select the Serial Ports option.

INS	TAL	LER	E MENU
Se	ria	1 F	'orts

**2.** Press **ENTER**. The Keypad will show the BAUD RATE value and, by means of an X, the presence of the respective Parity Bit. The first line will show the speed of the serial communication between the Control panel and the local PC. The second line will show the speed of the serial communication between the Control panel and the PC used for remote Teleservice.

57600	×	
1200	×	

3. To go back to the Installer menu, press ESC.

If the IP board (K-NET module) has been configured in the system, the display will show the corresponding IP address (see page n. 46). The **Program Panel** option will allow you to program all the parameters which determine system operation. Refer to "PROGRAMMING" in the INSTALLATION MANUAL for the description of the following parameters:

#### **Configuration:**

And-Zone Groups Zone Outputs Partitions Keys/Card Code types Events-Actions Events setup Telephone Voice messages Teleservice Options Scheduler options

#### From the INSTALLER MENU:

INSTALLER MENU Event logger

#### 1. Using A or B, select the Program Panel option.

INST	ALL	ER MEN	U
Pro9	ram	Panel	

#### 2. Press ENTER.

INS	TAL	LE	R M	IENU
Con	fiq	9ur	ati	on

**3.**Using **A** or **B**, select the required option. Refer to the respective paragraph for the programming instructions. To exit the PROGRAMMING menu, press **ESC**.

# Configuration

The Configuration section is divided into different programming sections: Keypads, Readers, Input expanders, Output expanders, Power stations, Vector-RX module, Vox board, Print Logger and IP Board (K-NET):

INSTALLER MENU	
Configuration	

#### 1.Press ENTER:

Confi9uration Keypad

# Keypad Press ENTER<sup>1</sup>

٤.	Г	69		
Ŀ.	ć	÷	 6.1	

Kelpad	Ν.	661
Keypad		001

**3.** Using **A** or **B**, select the required keypad , then press **ENTER**.

Descr	ipti	on	
Кеура	d	001	

**4.** Enter the Keypad label "Editing a text" under "Using the Keypad"), then press **ENTER**.

Keypad	Ν.	001
Present		

**5.** Press **ON** to enrol the keypad (Present), then press **ENTER**. To unenrol a Keypad (delete from the Configuration), press **OFF**.

IS You cannot unenrol a keypad during the programming phase. The values shown on the display are the current values in the Control panel memory.

Keypad	Ν.	001	
Memo			

6. Using A or B, select Memo (refer to "<u>Memo</u>") or Part. Fast View (refer to "<u>Quick viewing of Partition sta-</u> <u>tus</u>") or Tamp./ Al. beep (refer to "<u>Tamper /Alarm</u> <u>Beep</u>") or Disp.pan.mem. or Disp.part.mem. or EN50131 Comp (Compatibility with EN50131) press ON or OFF to enable or disable the option concerned, then press ENTER. If you enable the **Part. Fast View** option, memory of Partition Alarm and Tamper events will be signalled by blinking on the respective character will blink.



**7.** Assign the Keypad to the partitions (refer to "Enabling Partitions and A, B, C and D Mode" under "Using the Keypad"), then press **ENTER**.



**8.** Enter the ID number of the User Code to be used for Fast Arming, then press **ENTER**. The bottom line of the display will show the User Code label. To disable Fast Arming, enter 000. The bottom line of the display will show the word "Norie".

Display p	art 1
Partition	001

**9.** During standby status, the first eight positions on the bottom line (indicated by numbers 1 through 8 on the frontplate) will show the partition status.

Each keypad can be enabled on up to thirty-two partitions, you can select the partitions that will be shown on the display via the **Displayed Partitions** option.

The partitions must be selected in successive order, therefore, if partition no. 5 is selected first, partitions 1 through 4 CANNOT be selected.

Using **C** or **D**, select the position , then, using **A** and **B**, select the partition that will be shown (or "Home").



**10.** Press **ENTER** to go back to step 3.

# LED Keypads Press ENTER.



**3.** Using **A** or **B**, select the keypad to be configured, then press **ENTER**.



**4.** Enter the Keypad label (refer to "Editing Texts") then press ENTER:



**5.** Press ON to enrol the keypad (Present), then press **ENTER**.

To unenrol a Keypad (delete from the Configuration), press **OFF**.



6. Press **ON** or **OFF**, respectively, to enable or disable the option on the display, then press **ENTER**.

Part.	1_8
XXXXXXXX	

**7.** Assign the Keypad to the partitions (refer to "Enabling Partitions and **A**, **B**, **C** and **D** Mode" under "Using the Keypad"), then press **ENTER**.

#### Readers

This system supports up to 32 Readers. From the Configuration menu:

Confi	9urat	ion
Reade	rs	

#### 2. Press ENTER

Reader	n.	001
Reader		001

**3.** Using **A** or **B**, select the required Reader then press **ENTER**.

Description Reader 001

**4.** Enter the Reader label (refer to "Editing a text" under "Using the Keypad"), then press **ENTER**.

R	ead	er	001
P	res	ent	

**5.** Press **ON**, to enrol the Reader (Present), then press **ENTER**.

To unenrol a Reader (delete from the Configuration), press **OFF**.

6. Using A or B, select the operating mode of the Reader: 3 LED Monitor or 3 LED.

Reader	001
3 LED	monitor

Readers can be used to manage the system (Arming, Disarming, etc.), or to display the status of the Control panel events.

If the **3 LED Monitor** option is selected, the Reader will be able to display the status of up to three events but will be UNAVAILABLE for system management).

If the **3 LED** option is selected, the Reader will be able to manage the system (Arming, Arming Type A and Type B, Disarming

6a. Press ENTER:

To associate an event with the Red LED (enter the Event ID number (refer to the **EVENT** column in the "Events-Actions" table under "PROGRAMMING" in the INSTALLATION MANUAL). Enter zeros, if no event is to be assigned to the Red LED.

**6b.** Press **B** to go to the next step (to assign an event to the Yellow LED).

Ev.on	yel.	LED
Event	n.	

**6c.** Press **B** to go to the next step (to assign an event to the Green LED).

Ev.on	green	LED
Event	n	

#### then press ENTER.

From step 6, to select the **3 LED** operating mode.

Reader	001
3 LED	

#### 6d. Press ENTER;

Partition	1-8
XXXXXXXXX	

**6e.** Select the Reader partitions (refer to "Enabling Partitions and A, B, C and D Mode" under "Using the Keypad"), then press **ENTER**.

Yel.arm.	1-8
ААААААА	

**6f.** Set up the A Mode configuration for the Reader concerned (refer to "Enabling Partitions and A, B, C and D Mode" under "Using the Keypad"), then press **ENTER**.

Green arm.	1-8
АААААААА	

**6g.** Set up the B Mode configuration for the Reader concerned (refer to "Enabling Partitions and A, B, C and D Mode" under "Using the Keypad"), then press **ENTER**.

7. Press the **A** or **B** buttons to scroll through and program the following options: "View.contr. mem." (View control unit alarm memory), "View. Area.mem." (View area alarm memory), "Comp EN50131" (Compatibility with EN50131), "BuzzerEntryTime" (Buzzer during entry time) and "BuzzerExitTime" (Buzzer during Exit time), then press ENTER and return to step 3.

### ■ Input Expanders<sup>1</sup>

From the Configuration menu, using **A** or **B**, select the **Input Expanders** option.

Config	luration
Input	Expanders

#### 1. Press ENTER;

Input	Exp.	n.	001
IneutE	xpand	er	001

**2.**Using **A** or **B**, select the Input Expander<sup>1</sup> to be programmed, then press **ENTER**.

Description InputExpander001

**3.** Enter the Input Expander<sup>1</sup> label (refer to "Editing a text" under "Using the Keypad"), then press **ENTER**.

Ineu	tExpander00	1
Not	present	

**4.** Press **ON** to enrol the Input Expander<sup>1</sup> (Present), then press **ENTER** to continue. To unenrol an Input Expander (delete from the Configuration), press **OFF**.

5. To go back to the Configuration menu, press ESC.

#### Output Expanders<sup>2</sup>

From the Configuration menu, using **A** or **B**, select the **Output Expanders** option.

Confi	gurat	ion
Outpu	t Exp	anders

#### 1. Press ENTER.

Outpu	rt Exp	n.	001
Expar	ider c	ut	001

**2.** Using **A** or **B**, select the Output Expander<sup>2</sup> to be programmed then press **ENTER**.

Description Expander-out 001

**3.** Enter the Output Expander<sup>2</sup> label (refer to "Editing texts" under "Using the Keypad"), then press **ENTER**.

Expander-out	001
Not present	

**4.** Press **ON** to enrol the Output Expander<sup>2</sup>, then press **ENTER** to continue.

- **1** *M-IN/OUT* expander programmed as Input Expander or Input/Output Expander (see "M-IN/OUT Programmable Input/Output Expander" in the "INSTALLATION" chapter in Vol. 1).
- 2 M-IN/OUT expander programmed as Input Expander or Input/Output Expander (see "M-IN/OUT Programmable Input/Output Expander" in the "INSTALLATION" chapter in Vol. 1).

To unenrol an Output Expander<sup>2</sup> (delete from the Configuration), press **OFF**.

5. Press ESC to go back to the Configuration menu.

#### Power Station

This Control panel is unable to support Power stations. The following instructions are for upgraded models only. From the Configuration menu, using **A** or **B**, select the **Power stations** option:

Confi	gurat:	ion
Power	stat	ions

#### 1. Press ENTER

Power	stat.	001
PowerS	tation	001

**2.**Using **A** or **B**, select the Power Supply Station to be programmed then press **ENTER**.



**3.** Enter the Power Supply Station label (refer to "Editing a text" under "Using the Keypad"), then press **ENTER**.

PowerStation 001 Not present

**4.** Press ON to enrol the Power Station (Present), then press **ENTER** to continue. To unenrol the Power Station (delete from the Configuration), press **OFF**.

**5.** Enter the **Mains Fault Timeout**, that is, the amount of time (in seconds) that must expire before the system generates the **Mains Failure on Power Station** event (refer to the INSTALLATION MANUAL), then press **ENTER**.

Main	Fault Delay	1
Sec.	0180	

6. Enter the Low battery delay, that is, the amount of time (in seconds) that must expire (after a reading below 11.4 V) before the system generates the Low Battery on Power Station event (refer to the INSTALLATION MANUAL).

Batt.Low Delay Sec. 0180

**7.** Press **ENTER** to continue the Power Station enrolling phase, or **ESC** to go back to the Configuration menu.

#### Wireless Module

This Control panel can support a Wireless Receiver. From the Configuration menu, using **A** or **B**, select the **Wireless module** option. Configuration Vector-RX module

#### 1. Press ENTER:

Vect	or-R	Хр	hodu	le
Not	pres	ent		

**2.** Press **ON** to enrol the Receiver (Present), then press **ENTER** to continue. To unenrol the Receiver (delete from the Configuration), press **OFF**.

Sup	ervis	ion t	ime
hh.	mm	02	.30

**3.** Enter the **Supervision time**, then press **ENTER**. Each enrolled wireless device will send a supervisory signal to the Receiver at regular intervals. If the Receiver does not receive the signal within the time programmed in the Supervision window, it will generate a supervisory fault (**Lost wireless zone**).

**NOTE:** You must enter two digits for the hours and 2 for the minutes, (e.g. To program 3 hours and 30 minutes, enter 0330).

Zone	cont	r.	time
hh.mm		00.	15

**4.** Set this option for the Supervised Wireless Zones ONLY(refer to "Supervised" under "Wireless"). When the **Zone control time** is elapsed from when the Receiver has received the signal that each wireless zone should send, the control panel does not allow the arming if the **"Disable arming on wireless zones fault"** option is enable (See Option, page 75). Valid entries: 15 minutes (at default) to 2 hours (in 15-minute steps).

Options Jam disable X

**5.** Using **ON** or **OFF**, respectively, enable or disable the RF Jamming detection option, then press **ENTER**.

#### Vox board

This Control panel can manage the **K3/VOX2** Voice board. It is not necessary to enrol the Vox board manually, as this will be done automatically by the Control panel. However, it may become necessary to unenrol the Vox board (e.g. To clear Trouble signalling), in such cases, using **A** or **B**, select the **Vox board** option.

Configuration Vox Board

#### 1. Press ENTER:

Vox Board Not present

2. Press OFF, then press ENTER.

# Log Printer

From the Configuration menu, using **A** or **B**, select **Log Printer**.

Conf	`i9uration	
Log	Printer	

#### 1. Press ENTER:

Options Print Logger

2. Using A or B, select Print Logger option (refer to "<u>Real-time Printout</u>") or Agg. Linefeed (refer to "<u>Agg.</u> <u>Linefeed</u>"), then press ON or OFF to enable or disable the option concerned. The last character on the bottom line will show.

- option disabled

 $\times$  option enabled

Press **ENTER** to confirm and go back to the Configuration menu.

#### ■ IP board (K-NET module)

From the Configuration menu, using  ${\bf A}$  or  ${\bf B},$  select "IP board"

Cor	figuration	
IP	board	

#### 1. Press ENTER:

IP board Not present

**2.** Press **ON** to enrol the IP board (Present), then press **ENTER** to continue. To unenrol the IP board (delete from the Configuration), press **OFF**.

### Zones

Press **ESC** to exit the Configuration menu and go back to the PROGRAMMING menu.

PROGRAMMING Configuration

**1.** Using **A** or **B**, select the **Zones** option, then press **ENTER**.

PROGRAMMING Zones

#### 2. Press ENTER:

Zones Wired zones

#### Using A or B, select Wired Zones or Wireless Zones.

Zones Wireless zones

#### Wired Zones

From step 2 press **ENTER**.

Wired	Zone	001
Zone		001

**3.** Using **A** or **B**, select the wired zone to be programmed<sup>3</sup>, then press **ENTER**.

Descr	ipt	ion	
Zone		001	

**4.** Enter the Zone label (refer to "Editing a text" under "Using the Keypad"), then press **ENTER**.

Zona	881
Double	balanced

5. Using A or B, select the Zone Balancing: Double Balanced, 10K Balanced, Normally Closed, Glass Break, Balanced Alarm Only, Customized, 1K Balanced, Normally Open. Once the Balancing has been selected, press ENTER.

If you select Customized, you must also assign the Standby, Alarm, Tamper or Short-circuit status to the Voltage range, as follows.

**5a.** Using keys **1** through **4**, assign the status to the corresponding Threshold (refer to "Thresholds"). Default settings:

**1** = 1% through 34%; **2** = 34% through 50%; **3** = 50% through 67%; **4** = 67% through 98%

Zone	001
Alarm	

You must assign either the **Alarm** Zone attribute (for Alarm detection), or the **Command** Zone attribute (for System management) to all Zone Balancing types other than **Glass Break**.

6. Using A or B, select Alarm or Command, then press ENTER. Go to step 7a for Alarm zones, or 7d for Command zones.

**3** Zones relating to M-IN/OUT expanders programmed as Input and Output Expanders are NOT all usable, even if they are shown on the display. For example, if Input Expander no. 1 is an M-IN/OUT Expander programmed as an Expander with 4 Zones + 2 Outputs, Zones 073 and 074 are NOT usable. In general, Zones [67+(x\*6)] and [68+(x\*6)] of M-IN/OUT Expanders programmed as Expanders with 4 Zones + 2 Outputs, and Zones [67+(x\*6)], [68+(x\*6)], [69+(x\*6)] and [70+(x\*6)] of M-IN/OUT Expanders programmed as Expanders programmed as Expanders with 4 Outputs + 2 Zones, where "x" is the address of the Expander, are NOT usable.

#### Programming Alarm zones

Work carefully through the following steps.

Zone Type Instant x

**7a.** Using **A** or **B**, select the **Zone type** (**Instant**, **Entry delay**, **Entry path**, **Exit delay**, **Last exit**, **24 hours**, **Fire** or **Duress**). The zone types that will be available depend on the zone settings.

Using **ON** or **OFF**, enable/disable the selected zone type (" $\times$ " means enabled, and "\_\_" disabled), press **ENTER** to go to the next step.

Zone	Attri	bute
Unbyp	assab	le -

7b. Using A or B, select the zone attribute (Unbypassable, Chime, Test, Autobypassable, Autobyp.+reinc. (refer to "Autobypass with reset unbypass"), Stay, Delay on part. (refer to "Delayed on stay arming"), Del&Est. r.t.a. (refer to "Delayed and estimated on ready to arm"), Disp.Entry Time (refer to "Display during Entry Time"). The attributes that will be available depend on the zone settings.

Using ON or OFF, enable/disable the selected zone attribute "×" means enabled, and "---" disabled), then press **ENTER** to go to the next step.

**8b.** Using **A** or **B** select, in this section, the zone attributes "**Vibration**" and "**Roller Blind**" (for the first eight zones ONLY)

Zone	Att	cri	bute
Rolle	r B	31i	nd

Using **ON** or **OFF**, enable/disable the selected zone attribute "**Vibration**" and "**Roller Blind**", "×" means enabled, and "—" disabled). Refer to following Table for other parameters relevant to Zones with the '**Roller Blind**' attribute.

Times/ Pulses	1	2	3	4	5	6	7
30 s	0	1	2	3	4	5	6
2 min.	7	8	9	10	11	12	13
4 min.	14	15	16	17	18	19	20
Always	21	22	23	24	25	26	27

Example: for 3 PULSES and 4 MINUTES, you must set a value of 16.

To set the two attributes of a "Vibration" zone

Vibr	at	i	on	
Sens	it	1	vity⇒	99

Set the sensitivity value from 0 up to 30, and the Pulse value from 1 up to 7.



9. press ENTER.



**7c.** Enter the required number of cycles, or enter all zeros to set Repetitive, then press **ENTER** and go to step **8c**.

**8c.** This parameter determines the number of times the zone will generate the **Alarm on zone** event.

Valid entries: **Cycles** from **1** to **254** or **Repetitive**. If the zone is a **Glass Break** zone, the **Cycles** parameter will be forced to **1**.

#### Programming Command zones

If you selected **Command** at **step 6**, work carefully through the following steps.

Select command To99le arm/dis ×

7d. Using A or B, select the Action/s that will be generated by the Command zone (Toggle arm/dis. (refer to "Arm/Disarm/Toggle"), Hard arm/dis. (refer to "Arm/Disarm hard"), Arm only, Disarm only, Partition reset, Panel reset, Del.tel.queue (refer to "Clear call queue").
8. Using ON or OFF, enable/disable the selected Action/s ("×" means enabled, and "---" disabled), then press ENTER.

The Alarm Messages section is for Alarm and Command zones.

Alarm mes.n. ----None

This programming section will allow you to assign two voice messages (from the 64 available) to the zone concerned. You can assign one message to **Standby** status and the other to **Alarm** status.

If you select "None" in the **Alarm Message** field, Alarm status will be signalled by two Beeps, when the system is accessed over the phone.

If you select "None" in the **Standby Message** field, Standby status will be signalled by one Beep, when the system is accessed over the phone.

9. Using A or B, select the message number or "None", then press ENTER.



For the Standby message, repeat step 9, then press **ENTER**.

**10.** The **Partitions** parameter assumes different meanings for **Alarm** zones and **Command** zones.



For Alarm zones — the Partition parameter determines the partitions the zone belongs to, and thus its operating times, codes and keys.

For **Command** zones — the **Partition** parameter determines the partitions the command will affect. Each Command zone can affect more than one Partition.

To select/deselect partitions 1 through 8, press the corresponding key: " $\times$ " means the zone belongs to the corresponding partition.

To go to the next group of partitions, press B.

For partitions 9 through 16 - key 1 corresponds to partition 9, key 2 to partition 10 and so forth to key 8 which corresponds to partition 16. The same reasoning applies to partitions 17 through 24 and partitions 25 through 32.

#### 11. Press ENTER.

Options Enable autoarm -

**12.**Using **A** or **B**, select the **Enable autoarm** option (refer to "<u>Auto-arm on delay"</u>) or **Full arming AI.** (refer to "<u>Full Arming Alarm</u>").

Using **ON** or **OFF**, respectively, enable or disable the option concerned, then press **ENTER** to confirm and continue.

Timeout Disabled

**13.** If the **Enable autoarm** option is **OFF**, go directly to the next step.

If the **Enable autoarm** option is **ON**, enter the required **Timeout** (refer to "<u>Inactivity Time</u>"), then press **ENTER** to confirm and continue.

Inactivity Time Disabled

**13.** If the **Enable autoarm** option is **OFF**, go directly to the next step.

If the **Enable autoarm** option is **ON**, enter the required **Timeout** (refer to "<u>Inactivity Time</u>"), then press **ENTER** to confirm and continue.

**14.** Enter the required **Inactivity time** (refer to "<u>Inactivity</u>") or, using **0**, select **Disabled** to stop Inactivity supervision. Press **ENTER** to confirm and go to the next step.

Low	thr	esh	$^{ol}$	d
Volt	.5			34%

This Control panel can signal zone Alarm, Tamper, Short-circuit and Standby. To provide the various signals, the Control panel must measure the voltage on the zone terminals and compare it with the **Threshold** values programmed in this section.

The Thresholds must be set between 00 % and 99 %. The Thresholds must be programmed with rising values.

**15.** Using **A** or **B**, select the required Threshold: Low, Mid, High, enter the value (e.g. For 5 % enter 05), then press **ENTER**.

#### Wireless Zones

This system supports up to 32 wireless zones. To program the wireless zones, using the **ESC** key, go to step 3 in the "Zones" section.

Zones	
Wireless	Zones

(281 Zones for Kyo320)

**3b.** Using **A** or **B**, select the **Sel. wis zone** option then press **ENTER**.

Wls zo	one n.	001	
Zone		281	

**4b.** Using **A** or **B**, select the wireless zone to be programmed, then press **ENTER**.

Description	
Zone	281

**5b.** Enter the zone label (refer to "Editing a text" under "Using the Keypad"), then press **ENTER**.

Zone	281	
Superv	ision ×	

If the Supervision option is enabled, the system will be able to detect zone trouble (e.g. detector trouble). Each wireless device will send a supervisory signal to the Receiver at regular intervals. If the Receiver does not receive the signal within the supervisory window (refer to "Vector-RX module"), it will generate a supervisory fault (Lost wireless zone event).

Use **ON** or **OFF**, respectively, to enable or disable the Supervision attribute, then press **ENTER**.

Zone type	
Instant	$\times$

Using A or B, select the zone type: Instant, Entry delay, Entry path, Exit delay, Last exit, 24 hours and Fire.

To enable/disable the zone type, use **ON** or **OFF**: "×" means enabled and "--" disabled.

6b. Press ENTER.

Zone	attribute	
Unbyp	assable	

Setup the zone attributes: Unbypassable, Test, Autobypassable, Autobyp.+reinc. (refer to "Autobypass with reset unbypass"), Stay, Delay on part. (refer to "Delayed on stay arming"), Del&Est. r.t.a. (refer to "Delayed and estimated on ready to arm").

Using A or B, select the attribute. Press ON or OFF, re-

spectively, to enable or disable the respective attribute. The display will show the attribute status: ">>" means Active, "--" NOT active.

#### 7b. Press ENTER.

Cycles Repetitive

This programming field will allow you to program the number of times the zone will generate the **Alarm on zone - Via Radio** event.

Valid entries: 1 through 254 or Repetitive.

**8b.** Enter the required number of cycles, or enter all zeros to set **Repetitive**, then press **ENTER**.



This programming section will allow you to assign two voice messages (from the 62 available) to the wireless zone being programmed. You can assign one message to **Standby** status and another to **Alarm** status.

If you select "None" in the **Alarm Message** field, Alarm status will be signalled by two beeps, when the system is accessed over the phone.

If you select "None" in the **Standby Message** field, Standby status will be signalled by one beep, when the system is accessed over the phone.

**9b.**Using **A** or **B**, select the message number or "None", then press **ENTER**.

**10b.** For the Standby message, repeat step 9b, then press **ENTER**.



**11b. Assign** the Zone to the respective Partitions (refer to "Enabling Partitions and A, B, C and D Mode" under "Using the Keypad"), then press **ENTER**.



**12b.**Using **A** or **B**, select the **Enable autoarm** option (refer "<u>Auto-arm on delay</u>") or **Full arming Al.** (refer to "<u>Full Arming Alarm</u>"). Using **ON** or **OFF**, respectively, enable or disable the option concerned.

Press **ENTER** to confirm and go to the next step.



**13b.**If the Enable Autoarm option is OFF, go to step 14b. If the **Enable Autoarm** option is **ON**, enter the required **timeout** (refer to "<u>Inactivity Time</u>"), then press I to confirm and continue.

Timeout Disabled

**14b**.Enter the **Inactivity Time** (refer to "<u>Inactivity</u>"). Using **0**, select **Disabled** to disable Inactivity supervision.

Inactivity time Disabled

Press **ENTER** to confirm and continue.

# AND-zone Groups

This programming section will allow you to create up to 32 **AND-Zone** groups. Each **AND-Zone** group can include up to 8 Zones. If a Zone is included in an **AND-Zone** group it will generate Alarms ONLY when ALL the Zones in the Group are violated within a set time (refer to "Zones in AND Mode" under "PROGRAMMING").

#### From the PROGRAMMING menu:

PROGRAMMING Configuration

1. Using A or B, select the AND-Zone Groups option.

PROGRAMMING AND-Zone Groups

#### 2. Press ENTER.

AND-Zone	Groups
Number	01

**3.** The display will show the ID Number of the first **AND-Zone** Group. If you require a different **AND-Zone** Group, use **A** or **B**, or enter the respective ID Number, then press **ENTER**. To exit this programming section, press **ESC**.

AND-Zone	1
Zone	001

**4.** Using **A** or **B**, select the first Zone to be included in the **AND-Zone** Group, or enter the respective 3 digit Zone ID Number (for example, enter 003 for Zone 3). Press **ENTER** to go to the successive programming field.

NOTE: To delete an AND-Zone from a Group, enter 000 in the respective programming field.

```
AND-Zone Window
hh.mm.ss00.00.00
```

**5.** Once the **AND-Zone** Group has been set up, program the **AND-Zone Window** (in hours, minutes and seconds ). The system will not generate Alarms unless

ALL the **AND-Zones** detect violation within the set time. Press ENTER to go back to step 3.

PROGRAMMING Configuration

# Outputs

From the PROGRAMMING menu:

PROGRAMMING Configuration

1. Using A or B, select the Outputs option.

PROG	RAMM	ING	
Outp	uts		

### 2. Press ENTER.

Output	n.	001
Output		001

**3.** Using **A** or **B**, select the Output to be programmed<sup>4</sup>, then press.

Description Output 001

4. Enter the Output label (refer to "Editing a text" under "Using the Keypad"), then press ENTER.

001 Öuteut Monostable

5. Using A or B, select the Output Type (Monostable or Bistable), then press ENTER.

001 Output Superv.norm.clo

6.Using A or B, select the Output Polarity: Superv.norm.clo (refer to "Normally closed" and "Supervised"), Normally open or Normally closed, then press ENTER.

IS Only Outputs 1, 2 and 3 of KYO 320 can be programmed as Superv.norm.clo.



7.Enter the ID number of the Output which will be tracked by the Output concerned. Enter all zeros if the Output is not to track another Output.

The keypad will emit an audible error signal, if you: > attempt to program a value other than "None" for an

Output which is associated with an event; >attempt to program an Output which has been programmed to track another Output; >attempt to program the selected Output. Press ENTER.

Options	
Reserved	

8. Using ON or OFF, enable/disable the Reserved attribute ("X" means enabled, and "---" disabled).

The **Reserved** and **Follow No.** attributes exclude each other automatically. The Reserved Outputs cannot be associated with events.

#### Press ENTER:

Ass.t	imer	n.	
None			

9. Using A or B, select the Timer which will control the Output, then press ENTER:

ON	time
Min.	003

10. Using A or B, select Minutes or Seconds for the ON time, then enter the ON time for the Output. Valid entries: 0.2 to 25.4 seconds in steps of 0.2 or 1 through 127 minutes in steps of 1 minute. F R.

Off	time	
Sec.		996

11. Enter the amount of time that must elapse (after Output restoral) before the Output can be reactivated. The OFF time can be set for Monostable Outputs ONLY. Valid entries: 1 through 255 seconds in steps of 1 second.

#### Press ENTER:

Osc	i 1	1	at	i	on	
Non	8					

12. Using A or B, select the Half Cycle of the oscillation. The Output will activate for the programmed time, restore to standby for the same amount of time, and then reactivate.

Valid entries: 200 through 1400 msec (milliseconds; 1000 msec = 1 second) in steps of 200 msec. Press U:

4 Outputs relating to M-IN/OUT expanders programmed as Input and Output Expanders are NOT all usable, even if they are shown on the display. For example, if Output Expander no. 1 is an M-IN/OUT Expander programmed as an Expander with 4 Zones + 2 Outputs, Outputs 07, 08, 09 and 10 are NOT usable. In general, Outputs [3+(x\*6)],  $[3+(x^{+}6)]$ ,  $[5+(x^{+}6)]$  and  $[6+(x^{+}6)]$  of M-IN/OUT Expanders programmed as Expanders with 4 Zones + 2 Outputs, and Outputs  $[5+(x^*6)]$  and  $[6+(x^*6)]$  of M-IN/OUT Expanders programmed as Expanders with 4 Outputs + 2 Zones, where "x" is the address of the Expander, are NOT usable.



**13.** Using **A** or **B**, set the number of **Cycles** for the Output concerned. The **Cycles** can be set for the Monostable Outputs only. Valid entries: **1** through **31** or **Timeless**. Press **ENTER** to go back to step 3.

### Partition

From the Programming menu:

1. Using A or B, select the Partitions option.

PRO	GRAMM	ING
Par	titio	n

#### 2. Press ENTER:

Part	iti	on n.	001
Part	iti	on	001

**3.**Press **A** or **B** to select the required partition, then press **ENTER**.

Description	
Partition	001

**4.** Enter the partition label (refer to "Editing a text" under "Using the Keypad"), then press **ENTER**.

Entry time mm.ss. 00.30

**5.** Enter the time (in minutes and seconds) the system must wait before generating an **Alarm on zone** event after violation of an **Entry delay** zone, then press **(**).



6. Enter the Exit time (in minutes and seconds). Violation of an Armed Exit Delay zone will generate the programmed Exit time. If violation ends before the Exit time expires the zone will not generate the Alarm on zone event.

Press ENTER to continue.

Last	ex	it	t	i	me	
mm.ss			99	:	15	

7. Enter the Last exit time (in minutes and seconds), then press ENTER. Violation of a Last exit zone will generate the Last exit time of the partition the zone belongs to. This feature will allow the system to Arm as soon as the Last exit time expires. Valid entries for Entry, Exit and Last exit times: 0 minutes 0 seconds through 59 minutes 59 seconds.

Auto	arm	t	i	meout
Min.	01	0		

**8.** Enter the time (in steps of 1 minute) of the **Auto-arm timeout** signal.

Valid entries: 1 through 240 minutes. Press **ENTER** to continue.

Options	
AutoArm	del.si9×

9. Using A or B, select the AutoArm del. sig. (refer to "<u>Autoarm Signal</u>"), Autoreset (refer to "<u>Autoreset on</u> <u>Arming</u>"), Disarm with mem. (refer to "Disarm with alarm memory") or Confirm Alarm (refer to "Disarm with alarm memory") then, using ON or OFF, respectively, enable or disable the option concerned, then press ENTER.

If you select the **Confirm Alarm** option, you must enter the respective **Confirm time** (in steps of 1 minute). Valid entries: 30 to 60 minutes.

Confirm	time
Sec.	9969

Press **ENTER** to continue.

Negligence time None

**10.** Enter the **Negligence time** (in steps of 1 minute). If the **Negligence time** of a partition expires, the Control panel will generate the respective **Negligence** event. The **Negligence time** of a partition will refresh each time the partition is Armed.

Valid entries: 1 to 60000 minutes, or enter all zeros to set **None**.

Press **ENTER** to continue.

Ext.	r.	toArmDelay
min.		05

**11.** Enter the **Extended Ready-to-Arm delay**, then press **ENTER**.

Patro	1 Ti	me
Min.		00010

12. Enter the relevant Patrol Time, then press ENTER.

InhibitArming----None

**13.**Using **A** or **B**, select the Timer that will filter Arming commands, then press **ENTER**:

InhibitDisar ----None

**14**.Using **A**or **B**, select a Timer to filter the Disarm commands, then press **ENTER**.



**15.** Using **A** or **B**, select the Voice message (or None), assigned to Partition Armed status, then press **ENTER**:



**16.** Using **A** or **B**, select the Voice message (or None), assigned to Partition Disarmed status, then press **ENTER**:

Parti	tion	Code
Code	99	0000

**17.**Enter the Partition code, then press **ENTER** to go back to step 3.

If the **Send always** option is disabled (refer to "**Digital Communicator**" section), the Digital Communicator will send the **Partition code** and the Event Code to the Central Station/s when a partition related event occurs (associated with the Digital Communicator).

The Partition Code must have 6 digits.

# Keys/Card

From the "PROGRAMMING" menu.

PROGRAMMING Configuration

1. Using A or B, select the Keys option.

PROGRAMMING Keys /Card

#### 2. Press ENTER:

Keys /Card Digital Key

**3.** Using **A** or **B**, select either **Digital key** or **Wireless key** as required, then press **ENTER**.

Dig.	Key n.	001
Digi	tal key	001

**4.** Using **A** or **B**, select the required digital key, then press **ENTER**.

Desc	rip	tion	
Digi	tal	key	001

**5.** Enter the digital key label (refer to "Editing a text" under "Using the Keypad"), then press **ENTER**.

Digitalkey	001
Enabled	

6. Using ON or OFF, respectively, enable or disable the digital key concerned, then using A or B, select the Patrol attribute.

7. Using ON or OFF, respectively, enable or disable the **Patrol** attribute for the digital key concerned, then using C or D, select the **Stop Partition Alarms**.

Digit	al k	ey 001
Stop	Part	.alarm×

**7a.** Using **ON** or **OFF**, respectively, enable or disable the **Stop Partition Alarms** for the digital key concerned (refer to "<u>Stop Partition Alarms</u>") then, using **C** or **D** select the **Del.tel.queue** attribute.

Dig	ital	key	001
Del	.tel.	queue	

8. Using ON or OFF, respectively, enable or disable the **Del.tel.queue** attribute for the digital key concerned (refer to"<u>Delete Call queue on Disarming</u>"), then using **C** or **D**, select **Stop panel alar**.

Digi	tal key	ə 001
Stop	Panel	alarm

**9.** Using **ON** or **OFF**, respectively, enable or disable the **Stop panel Alarms** attribute (refer to "<u>Stop Panel Alarms</u>"), then press **ENTER**.

Max Num.	access
Always	

**10.** Enter the number of times the digital key will be allowed to access the system, then press **ENTER**. To allow unlimited use, enter zero (0).

Ass.Timer n. ----None

**11.** Using **A** or **B**, select the **Timer** which will control the digital key (the bottom line will show the label of the selected Timer), then press **ENTER**.

Partition	1-8
XXXXXXXX	

**12.** Enable the Key on the relevant Partitions (refer to "Enabling Partitions and A, B, C and D Mode" under "Using the Keypad"), then press **ENTER**.

To program the wireless keys, go back to step 3, then using **A** or **B**, select the **Wireless keys** option.

Key	/Card	
Wire	less Key	

4a. Press ENTER:

WLS Key	n.	001
Wireless	Key	001

**5a.** Using **A** or **B**, select the wireless key to be programmed, then press **ENTER**.

Descr	iption	
Wirel	ess key	001

**6a.** Enter the respective label (refer to "Entering a text" under "Using the Keypad"), then press **ENTER**.

Partition	1-8
XXXXXXXX	

**7a.** Enable the Wireless Key on the relevant Partitions (refer to "Enabling Partitions and under "Using the Keypad"), then press **ENTER**.



**8a.** Set up the **Yellow** Mode configuration for the Wireless Key concerned (**D**: Disarm, **N**: None, **A**: Arm, **S**: Arm in Stay mode, **I**: Istant mode, then press **ENTER**.



**9a.** Set up the **Green** Mode configuration for the Wireless Key concerned (**D**: Disarm, **N**: None, **A**: Arm, **S**: Arm in Stay mode, **I**: Istant mode), then press **ENTER** to go back to step 5a.

# Code Types

From the Programming menu:



1. Using A or B, select the Code types option.

PROG	RAMM	ING
Code	typ	es

#### 2. Press ENTER:

Code	type	n.	001
User	type		001

**3.** Using **A** or **B**, select the Code type, then press **ENTER**.

Descr	ription	
User	type 001	

**4.** Enter the label (Description) (refer to "Entering a Text") of the selected Code type, then press **ENTER**.

NOTE: If, at step 3 (User type), you select a User type (codes 1 through 16) go to "User Code Types". If you select an Installer type (codes 17, 18 and 19) go to "Installer Code Types".

#### User Code Types

Opti	on :	sec	tio	n 1
Rese	tβ	ları	m i	×

5.Using A or B, select the functions from Option section 1: Reset Alarms (refer to "Panel reset"), Stop Alarms (refer to" Stop\_Alarm"), Arm/Disarm (refer to "Arm./Dis. from User menu"), Overtime Request (refer to "Request overtime"), Teleservice Req (refer to "Request teleservice"), En./Dis. autoar (refer to "Enab./Disab. scheduler"), En./Dis. Teleser (refer to "Enab./Disab. teleservice"), En./Dis.Ans.Dev (refer to "Enab./Disab. teleservice"), Press ON or OFF, respectively, to enable or disable the function concerned ("×" means enabled, and "---" means disabled). Press ENTER to go to the next Option section.

Option s	section	2
Disable	buzzer	$\times$

6. Using A or B, select the functions from Option section 2: Disable buzzer (refer to "Enab./Disab. keypad buzzer"), Change tel. num (refer to "Phone number modify"), Change time/date (refer to "Date/time modify"), Reset PC Prog. (refer to "Reset warning PC progr."), Test keypad (refer to "Keypad test"), Test siren (refer to "Squawk"), Activate output (refer to "Output On/Off"). Press ON or OFF, respectively, to enable or disable the function concerned ("×" means enabled, and "---" means disabled). Press ENTER to go to the next Option section.

Option section 3 Zone Status x

7. Using A or B, select the functions from Option section 3: Zone status (refer to "Bypass/Unbypass zones"), Continuous rec. (refer to "Reset/play/restart continuous rec."), Home message (refer to "Play/Reg. memo"), Event Logger (refer to "View logger"), Clear call queue (refer to "Clear Call Queue"), En./Dis. timers (refer to "Enable Timers Control"). En./Dis. Keys (refer to "Enable Key Control"). Using ON or OFF, respectively, enable or disable the function concerned ("×" means enabled, "---" means disabled). Press ENTER to go to the next Option section.

Ortion	secti	on 4
No tel.	part.	S/R×

8. Using A or B, select the functions from Option section 4: No tel.part.S/R (refer to "<u>Clear phone queue on</u> <u>partition in stop/reset</u>"), No tel.pan. S/R (refer to "<u>Clear</u> <u>phone queue on panel in stop/reset</u>"), No tel. disarm (refer to "<u>Clear phone queue on disarming</u>"), Reset part.al. (refer to "<u>Reset Partition Alarms</u>"), Stop **part.alarm** (refer to "<u>Stop Partition Alarms</u>"), **Print logger** (NOT available!). Press **ON** or **OFF**, respectively, to enable or disable the function concerned ("×" means enabled, and "—" means disabled). Press **ENTER** to go to step 3.

Option	section	5
Armin9	type A	$\times$

**9.** Using **A** or **B**, select the functions from Option section 5: **Arming type A** (refer to "Arming A with user code"), **Arming type B** (refer to "Arming B with user code"), **Arming type C** (refer to "Arming C with user code"), **Arming type D** (refer to "Arming D with user code"), **Away arming** (refer to "Away arming with user code"), **Disarming** (refer to "Disarming with user code"). Press **ON** or **OFF**, respectively, to enable or disable the function concerned ("×" means enabled, and "--" means disabled). Press **ENTER** to go to step 3.

#### ■ Installer Code Types

Option		block	1
Event	1	o99er	$\times$

**5a.** Using **A** or **B**, select the functions from Option section 1: **Event logger** (refer to "<u>View logger</u>"), **Zone status** (refer to "<u>Zone Status</u>"), **Zone test** (refer to "<u>Zone Test</u>"), **Outputs test** (refer to "<u>Output Test</u>"), **Clear call queue** (refer to "<u>Clear Call Queue</u>"), **Voice functions** (refer to "<u>Voice Functions</u>"), **Installer PIN** (refer to "<u>Change Installer PIN</u>"), **User codes** (refer to "<u>User Codes</u>"). Press **ON** or **OFF**, respectively, to enable or disable the function concerned ("×" means enabled, and "—" means disabled). Press **ENTER** to go to the next Option section.

Opt:	ion	block	2
Dig:	ital	Keys	$\times$

6a.Using A or B, select the functions from Option section 2: Digital keys (refer to "Digital Keys"), Program Panel (refer to "Panel programming"), Enrol wireless (refer to "Enrol Wireless"), Update strings (refer to "Keypad Broadcast"), Change time/date (refer to "Change date/time"). Press ON or OFF, respectively, to enable or disable the function concerned (">" means enabled, and "---" means disabled). Press ENTER to go back to step 3.

N	EVENT
0000 + n	Alarm on zone no.
0280 + n	Alarm on zone no. – Wireless
0344 + n	Tamper on zone no.
0624 + n	Tamper on zone no. – Wireless

#### Tabella 1 Zones events for KYO320

Ν	EVENT
0688 + n	Fire alarm on partition no.
0720 + n	24h alarm on partition no.
0752 + n	Burglar alarm on partition no.

0784 + n	Generic alarm on partition no.
0816 + n	Tamper alarm on partition no.
0848 + n	Generic+Tamper alarm on partition n.
0880 + n	Away alarm on partition no.
0912 + n	Stay alarm on partition no.

 Tabella 2
 Partition events for KYO320

N.	EVENTI
0945	Fire alarm on panel
0946	24h alarm on panel
0947	Burglar alarm on panel
0948	Generic alarm on panel
0949	Tamper alarm on panel
0950	Generic+Tamper alarm on panel
0951	Tamper on Main unit
0952	Stop-alarms jumper
0953	Balanced tamper
0953 + n	Tamper on supervised output no.
0957	Tamper BPI readers
0958	Tamper BPI input expanders
0959	Tamper keypads
0960	Tamper LED Keypad
0961	Tamper output expanders
0962	Tamper power stations
0963	Tamper wireless device

#### Tabella 3 KYO 320 Panel events

Ν.	EVENTI	
0964	Warning readers	
0965	Warning BPI input expander	
0966	Warning keypad	
0967	Warning LED keypad	
0968	Warning output expanders	
0969	Warning power stations	
0970	Warning wireless device	
0971	False key	
0972	Warning fuse +F	
0973	Warning fuse +B1	
0974	Warning fuse +B2	
0975	Warning fuse +B3	
0976	Warning fuse +B4	
0977	Warning fuse +B5	
0978	Warning fuse BPI1	
0979	Warning fuse BPI2	
0980	Warning fuse KEYBUS	
0981	Warning mains failure	
0982	Warning low battery	
0983	Warning power trouble	

0984	Warning mains failure on Power station	
0985	Warning low battery on Power station	
0986	Warning power trouble on Power station	
0987	Battery not connected on Power station	
0988	Battery charger trouble on Power station	
0989	Switching not connect on Power station	
0990	Short circuit output 1/2/3 on Power station	
0991	Battery low memory	
0992	Warning low battery on wireless device	
0993	Memory tamper BPI device	
0994	Memory balanced tamper	
0995	Memory tamper on main unit	
0996	Memory false key	
0997	Memory tamper supervised output	
0998	Lost wireless zone	
0999	Generic Warning	

 Tabella 4
 Generic events (continued) for KYO320

N.	EVENT	
1000	Installer maintenance	
1001	Central station maintenance	
1002	Clock Forward/Back	
1002+n	Not Ready-to-arm partition n.	
1034+n	Extended not Ready-to-Arm partition n.	
1066+n	Global arming partition n.	
1098+n	Global Disarming partition n.	
1130+n	Exit time on partition no.	
1162+n	Entry time on partition no.	
1194+n	Autoarming warning partition no.	
1226+n	Memory alarm on partition no.	
1258+n	Memory tamper on partition no.	
1290+n	Valid key no.	
1790+n	Key present on reader no.	
1822+n	Valid key on partition no.	
1854+n	Alarxm stop on partition no.	
1887	Alarm stop on panel	
1887+n	Bypass zone no.	
2167+n	Bypass zone no Wireless	
2232	Telephone line trouble	
2233	Error printer	
2234	Call queue full	
2234+n	Timer no.	
2298+n	Real time of zone no.	
2578+n	Real time of zone no Wireless	

 Tabella 4
 Generic events (Continued) for KYO320

N.	EVENT
2643	Test
2643+n	Reset on partition no.
2676	Reset on panel
2671+ (6*n)	Super key [Fire] [Keypad no.]
2672+(6* n)	Super key [Assistance] [Keypad no.]
2673+ (6*n)	Super key [Police] [Keypad no.]
2674+ (6*n)	Super key [Key 1] [Keypad no.]
2675+ (6*n)	Super key [Key 2] [Keypad no.]
2676+ (6*n)	Super key [Key 3] [Keypad no.
2916+n	Key F on KeyFob Pno.

 Tabella 5
 Spot Events (continued...) per KYO320

r		
N.	EVENTO	
2948+n	Chime on partition no.	
2980+n	Negligence on partition no.	
3012+n	Delinquency on partition no.	
3044+n	Block keypad no.	
3092+n	Recognized user code no.	
3287+n	Recognized user code on keypad no.	
3335+n	Recognized code on partition no.	
3368	Invalid code	
3369	Recognized installer code	
3370	Kissoff recognized	
3371	Start telephone call	
3372	Teleservice requested	
3373	Start teleservice	
3374	Dialler action OK	
3375	Action on digital communicator OK	
3376	Digital communicator action OK	
3377	Teleservice action OK	
3378	Dialler action failed	
3379	Action on digital communicator failed	
3380	Digital communicator action failed	
3381	K-NET communication failed	
3382	Teleservice action failed	

 Tabella 5
 Spot Events (continued) for KYO320

N.	EVENTO
3382+n	User event no.

 Tabella 6
 Customised Events

N.	EVENTO	
3415	Memo message present	
3416	K-NET module missing	
3417	Lan Link missing	
3418	IP receiver missing	

 Tabella 7
 Special events for KYO320.

# **Events - Actions**

From the Programming menu:

PROGRAM	4ING
Configur	ration

#### 1. Using A or B, select Event -> Action:

PROGRA	4MI	NG
Event	÷	Action

#### 2. Press ENTER:

Event	÷	Action
Event	n.	0001

3. Enter the Event ID number, then press ENTER.

NOTE: The Event ID numbers can be found in the No. column of the Event tables. For events that regard system elements such as: Zones, Partitions, Outputs, Codes, Keypads, Keys/Cards and Readers, you must add the ID number of the object to the Event ID number shown in the Event No. column. EXAMPLE: The Event ID number of Burglar alarm on partition 1 is 0753 (i.e. 0752 + partition 1 = 0753), whereas, the Event ID number of Burglar alarm on partition 6 is 0758 (i.e. 0752 + partition 6 = 0758).

Event	n.	0001
Output		

**4.** Enter the ID number of the Output associated with the selected event (enter all zeros for NO Output), then using **A or B**, select **Dig.Com.On**.

Events n.	0001
Di9.Com.	0n

**5.** Enter the ID number of the Digital Communicator action the Control panel must perform when the selected event **occurs** (enter all zeros for NO action), then using **A** or **B**, select **Dig.Com.Off**.

Events n.	0001
Di9.Com.	0ff

**6.** Enter the ID number of the Digital Communicator action the Control panel must perform when the selected

event **ends** (enter all zeros for NO action), then using **A** or **B**, select **Dialler On**.

Event	n.	0001
Diall	er On	

7. Enter the ID number of the Dialler action which the Control panel must perform when the selected event **occurs** (enter all zeros for NO action), then using **A** or **B**, select **Dialler Off**.

Even	t n.	0001
Dial	ler	0ff

**8.** Enter the ID number of the Dialler action which the Control panel must perform when the selected event **ends** (enter all zeros for NO action), then press **ENTER** to go back to step 3.

# Event setup

The **Event setup** option will allow you to program the **Event Types** to be stored in the Logger and/or printed in real time (refer to"<u>Logger – Setting up events</u>" under "<u>Programming</u>").

PROG	RAMMI	ING
Conf	i9ura	ation

1. Using A or B, select the Event setup option.

PRO	GRF	) MMI	NG
Eve	nt	set	up

#### 2. Press ENTER:

Event	setup	001
Zone	Alarm	

**3.** Using **A** or **B**, select the required **Event Type**, or enter the **Event Type** ID number (3 digits, see **NOTE**), then press **ENTER**.

**NOTE:** The Event Type ID numbers can be found in the No. column of the Event Type tables. For Event Types with 2 digit ID numbers, you must enter zero (0) followed by the 2 digit ID number.

Zone	Alarm	
Log	enabled	$\times$

**4.** Using **A** or **B**, select the **Log enabled** option (refer to "") or **Printer enabled** option (refer to "<u>Printout</u>"). Press **ON** or **OFF** to enable or disable the option concerned, then press **ENTER** and go back to step **3**.

# Telephone

The **Telephone** option will allow you to setup the Control panel Phonebook, the telephone line parameters and the Answering machine.

From the Programming menu:

PROGR	AMMI	NG
Confi	gura	tion

1. Using A or B, select the Telephone option

Р	R	0	6	R	A	М	M	Ι	NG	
Т	9	1	9	p	h	O	n	e		

#### 2. Press ENTER:

Telephone Panel Phonebook

3. Using A or B, select Panel Phonebook, Dialler, Dig. communicat., Aux.communicator or AnsweringMachine, as required, then press ENTER. Refer to the respective paragraph for instructions.

#### Phonebook

Phonebook Phone numbers

**4.** Using **A** or **B**, select **Phone numbers**, or **Phone options** then press ENTER. Refer to the respective paragraph for instructions, or press **ESC** to go back to step 3.

#### Phone numbers



**5a.** Using **A** or **B**, select the Telephone Number to be programmed, then press **ENTER**, or press **ESC** to go back to step 4.

Descri	ption	
Phone	number	001

**6a.** Enter the Telephone number label (refer to "Entering a text" under "Using the Keypad"), then press **ENTER**:



7a. Using keys 0 through 9, enter the telephone number.

— OFF corresponds to the hash sign (#);

— ON corresponds to the comma and star, when the display shows the required character, press  ${\bf D}$  to continue;

— C and D will allow you to move the cursor along the line and overwrite wrong digits. To delete the entire Te-

lephone number, press and hold **1** until the keypad emits a beep.

If you wish to include pound (#) or star (\*) in the telephone numbers, you must program the telephone numbers from a keypad.

Press ENTER to go back to step 5.

#### Phone options

Max.rin9s	number
Number	04

**5b.** Set the number of Rings the Control panel must allow before answering the call, then press **ENTER**.

KEYS		1	2	3	4	5	6	7	8
	1-8	1	2	3	4	5	6	7	8
Keys to use for	9-16	9	10	11	12	13	14	15	16
the telephone	17-24	17	18	19	20	21	22	23	24
number groups	25-32	25	26	27	28	29	30	31	32
DISPLAY	(	1	2	3	4	5	6	7	8



Delay	Call	s
Sec.		0000

6b. Set the Start telephone call delay, then press ENTER.

Dial	ling	option
Wait	dial	tone

**7b.** Using **A** or **B**, select **Wait dial tone** (refer to "Tone check"), **Test tel. line** (refer to "Telephone line check") **Pulse dialling** (refer to "Pulse dial") or **High/Low Volume**, then press **ON** or **OFF**, respectively, to enable or disable the option concerned ("×" means enabled, and "—" means disabled). If the option **Wait dial tone** is disabled, press **ENTER** to go back to step 4, or:

Timeout	for	tone
Sec.		12

**8b.** Set the **Timeout for dial tone** (i.e. the time the Control panel must wait for the dial tone before aborting the call, then press **ENTER** to go back to step 4.

#### Dialler

Dialler Dialler numbers

**4b.** Using **A** or **B**, select **Dialler numbers**, **Dialler actions** or **Dialler settings**, then press **ENTER**. Refer to the relevant paragraph for instructions, or press **ESC** to go back to step 3.

#### **Dialler numbers**

Dialler	numbers
Number	01

**5b.** Enter the ID number of the Dialler number to be programmed, then press **ENTER**, or press **ESC** to go back to step 4b.

Te	lef	numb.n.	001
Te	lef	 numb.	001

**6b.** Using **A** or **B**, select the Telephone number (from the **Phonebook**) to be associated with the selected Action, then press **ENTER** to go back to step 5b.

#### **Dialler actions**

Dialler	actions	
Action	n. 01	

**5c.** Enter the ID number of the Dialler Action to be programmed, then press **ENTER**, or press **ESC** and go back to step 4b.

Tel.	numbers	1-8
×		

**6c.** Select the Dialler numbers which will be generated by the selected Action. Using **A** or **B**, select the group of Dialler numbers (**1-8**, **9-16**, **17-24**, **25-32**). Press the key that corresponds to the ID number of the Dialler Number (refer to Table 8) to enable the selected Action to trigger a call to the number ("×" means enabled). Press **ENTER** to continue.

Action Options Priorit.tel.

7c. Using A or B, select Priorit. tel. (see !) or Call anyone (see All), then press ON or OFF, respectively, to enable or disable the option. Press ENTER to continue.

Messa9e	1	00:	L
VoiceMes	333	99e	001

This option will allow you to setup the **Dialler** message for the selected action. Up to 5 **Voice** messages (from the 62 Voice messages available) can be included in the **Dialler** message

**8c.** Using **A** or **B**, select the first **Voice** message to be included, or enter the Voice message ID number (1 through 62), then press **ENTER** to continue (select the next Voice message), and so forth until the Dialler message is complete.

NOTE: If no Voice message is required, enter 3 zeros, or select "None".

The right-hand side of the top line will show the Dialler message and the ID number of the selected Voice mes-

sage. The bottom line of the display will show the Voice message label (Description). Press **ENTER** or **ESC**, respectively, to go to the next or previous Dialler message (message 1, 2, 3, 4 or 5).

Using **A** or **B**, select the Voice message for the selected Dialler message.

Messa9e	5	
None		

**9c.** Press **ENTER** when the display shows Dialler message 5, and go back to step 5c.

#### **Dialler settings**

Attempts	
Number	05

**5d.** Enter the maximum number of times the Control panel must try to call a Telephone number before quitting and going to the next number (**Attempts**), then press **ENTER**.

N.repe	ti	ti	ons	
Number				02

**6d.** Enter the number of times the Control panel must play the Dialler message (**Message repetitions**), then press **ENTER** 

Replay	Pause
Sec.	02

**7d.** Enter the time (in seconds) that must elapse between Dialler message replays (**Replay pause**), then press **ENTER**.

Dial	ler	options
Call	SUC	.c.num.—

**8d.** Press **ON** or **OFF**, respectively, to enable or disable the **Call succ. num.** option (refer to "Call successful numbers"). If this option is enabled, the telephone numbers of successful calls will be redialled in the successive cycles. If this option is disabled, the telephone numbers of successful calls will NOT be redialled in the successive cycles. Press **D** to continue.

Dialle	er	OP	t	i	on	s
Confir	·'n	ca	1	1	s	

**9d.** Press **ON** or **OFF**, respectively, to enable or disable the **Confirm calls** option (refer to "Confirm successful calls"). If this option is enabled, the Control panel will consider a call successful when it detects the feedback signal of a telephone key being pressed at the other end of the line. Press **C** to display the previous option (step 8d) or press **ENTER**.

Play aft Dial	.er
------------------	-----

**10d.** Using **A** or **B**, select the **Dial**, **Timeout** or **Voice on line** option, then press **ENTER**. Refer to the respective paragraph for instructions.

#### Timeout

The Dialler Message will be played when the programmed **Timeout length** (refer to Delay) expires.

Timeout	len9th
Sec.	005

**11d.** Enter the **Timeout length** (from 1 to 255 seconds), then press **ENTER** to go back to step 4b, or press **ESC** to go back to step 10d.

#### Voice on line

The Dialler message will be played as soon as the Control panel detects a voice answer. If the Control panel does not detect a voice answer within the programmed **Wait voice for** time (refer to Voice timeout), it will end the call.

Wait	voice for
Sec.	015

**11e**.Enter the **Wait voice for** (from 1 to 255 seconds), then press **ENTER** to go back to step 4b, or press **ESC** to go back to step 10d.

#### Dialling

The Dialler message will be played as soon as the Control panel finishes dialling the telephone number. Go back to step 4b.

#### Dig. comunicat.

```
Dig. Comunicat.
Dig.com.numbers
```

**4c.** Using **A** or **B**, select the **Dig.com. numbers**, **Dig.com. actions** or **Dig.com. settings** option, then press **ENTER**. Refer to the respective paragraph for instruction. Press **ESC** to go back to step 3.

#### Dig. com.numbers

```
Dig.com.numbers
Number 01
```

**5g.** Enter the ID number of the Digital Communicator Number to be programmed, then press **ENTER** to continue. Press **ESC** to go back to step 4c.

Tel.	nur	b.	n.0	01
Phon	e r	umb	er	001

**6g.** Using **A** or **B**, select the Telephone Number (from the Phonebook) to be associated with the selected Digital Communicator Number, then press **ENTER**.

Prot	oco	1	
ADEM	CO	SLOW	

**7g.** Using **A** or **B**, select the **Protocol** supported by the Central Station the Digital Communicator call will be sent to, then press **ENTER**.

System	code
Code	0000

**8g.** Enter the **System code** (three to six digits as required by the reporting format). The System Code (assigned by the Central Station) allows the operator to identify the system. Press **ENTER**.

Send always System Code x

**9g.** Press **ON** or **OFF**, respectively, to enable or disable the **Send always** option. If this option is enabled, the Control panel will always send the **System Code**. If this option is disabled, the Control panel will send the partition code (refer to "Customer Code" under "Partitions") for partition related events and the **System Code** for all other events. Press **ENTER** to go back to step 5g.

#### Dig.com. actions

Each Digital Communicator action can manage one Event code which can be sent to a group of up to eight Telephone numbers.

Dig.	com.	actions	5
Acti	on n	. 001	

**5h.** Enter the ID number of the Digital Communicator action to be programmed then, using **A** or **B**, select the Event code A or B. Press **ENTER** to continue or **ESC** to go back to step 4c.

Tel.	Number	1-8
$\times$		

**6h.** Using keys **1** through **8**, setup the Digital Communicator Tel. numbers that will be called when the selected action is generated ("û" means the Tel. number will be called). Press **ENTER** to go to the next step.

Act	ion	options	
Pri	orit	. tel.	

**7h.** Press **ON** or **OFF**, respectively, to enable or disable the **Priorit. tel.** option (refer to "!"). Press **B** to go to the next option.

Action options Call anyone

**8h.** Press **ON** or **OFF**, respectively, to enable or disable the **Call anyone** option (refer to "All"). Press **A** to go to the previous option (refer to step 7h) or press **ENTER**.

**9h.** Enter the **Event code** (refer to "Code") of the action being programmed, (This is not valid for Contact ID, SIA and SIA over K-NET protocols) then press **ENTER** to go back to step 5h.

### Dig.com. setting

Attempts	
Number	03

**5j.** Enter number of times (refer to "Attempts") the Control panel must dial a telephone before aborting a call, then press **ENTER**.

Voice	duration
Sec.	030

**6j.** Enter the maximum time allowed for the "2-way audio" session (refer to "2-way audio"), then press **ENTER** and go back to step 4c.

#### Answering Machine



**4k.** Using **A** or **B**, select the Voice message for the Answering machine facility, then press **ENTER**.

Repetition n. Number 003

**5k.** Enter the number of times the Control panel must play the Answering machine message (refer to "Message repetitions"), then press **ENTER**.

Replay Pause Sec. 005

**6k.** Enter the pause (in seconds) between the message replays (refer to "Replay pause"), then press **ENTER**.

PIN	timeout
Sec.	030

**7k.** Enter the maximum time the system will wait for a valid PIN (entered on the remote telephone keypad) for access to the system over the phone (refer to "PIN time-out"), then press **ENTER**.

DTMF	timeout
Sec.	030

**8k.** Enter the maximum time the system will wait for the user to press a telephone key before it ends the call (refer to "DTMF Tone Timeout"), then press **ENTER** to go back to step 3.

### Voice messages

#### 1.Using A or B, select the Vocal messages option.

PROGRA	IMMING
Vocal	messa9es

#### 2. Press ENTER:

Message	n.	001
Messa9e		001

**3.** Using **A** or **B**, select the Voice message to be programmed or enter the Voice message ID number, then press **ENTER**, or press **ESC** to go back to step 1.

Description Message 001

**4.** Enter the message text (refer to "Entering a text" under "Using the Keypad"), then press **ENTER**.



5. Using A or B, select the required message Quality (Poor, Average, Good or Excellent), then press ENTER.

Len9th	(000)
Sec.	002

NOTE: The selected quality will not be provided, if the Leftover time is insufficient.

6. Enter the Message Length (refer to "Time"). The Leftover time will be shown in brackets on the top line. Press ENTER to go back to step 3.

PROGRAMMING Configuration

The Quality and the Length of messages will be set for number messagges 63 and 64 only.

# Teleservice

**1.** From the PROGRAMMING menu, using **A** or **B**, select the **Teleservice** option.

PRO	OGRAMM	IING
Tel	leserv	vice

#### 2. Press ENTER:

Teleservice Num.teleservice

3. Using A or B, select: Num. teleservice, Teleservice param., Teleservice option, Init teleservice, Mainte-

**nance call** or **Vigilance call**, then press **ENTER** and refer to the respective paragraph.

#### Num. teleservice

Tel.numb.	n.
Number	1

**4a.** Enter the ID number of the required Teleservice number, then press **ENTER**. To go back to the Teleservice menu (step 3), press **ESC**.

Tel.	numb.n.	
None		

**5a.** Using **A** or **B**, select the Telephone number (from the Phonebook) for the Teleservice facility, or enter the relevant ID number (enter three zeros to disable the Teleservice number). The ID number of the selected Telephone number will be shown on the top right of the display, and the Description on the bottom line. Press **ENTER** to go back to step 4a.

#### ■ Teleserv. param.



**4b.** Enter the **Customer code** that will identify the Control panel during Teleservice operations 4 digits required), then press **ENTER**.



**5b.** Enter the number of times the Control panel must dial a Teleservice number before aborting the call and going to the next number (refer to "Attempts"), then press **ENTER**.

First	test	date
00:05	01/01	/2005

**6b.** Enter the time and date of the **First test**, then press **ENTER**.

Rep.test	event
Hours	0024

**7b.** Enter the time (hours) that must elapse between tests (refer to "Repeat test event"), then press **ENTER** to go back to step 3.

#### Teleserv. option

**4c.** Using **A** or **B**, select: **Callback**, **En. test call**, **En. test event** or **Double call**. Refer to the relevant paragraph for instructions

#### Callback

Teleserv.	option
Callback	

**5c.** Press **ON** or **OFF**, respectively, to enable or disable the **Callback** option. If this option is enabled, the Control panel will call the programmed Teleservice numbers when it receives a Teleservice call. Press **ENTER** to go back to step 3.

#### En. test call

Tel	eserv	. opti	ion
En.	test	call	

**5d.** Press **ON** or **OFF**, respectively, to enable or disable the **Test call**. If this option is enabled, the Control panel will make the Teleservice call in accordance with the **First test** and **Repeat test event** values. Press **ENTER** to go back to step 3.

#### En. test event

Tel	eserv.	option
En.	Test	event -

**5e.** Press **ON** or **OFF**, respectively, to enable or disable the **Test Event**, then press **ENTER** to go back to step 3.

#### Double call



**5f.** Press **ON** or **OFF**, respectively, to enable or disable the **Double call**. If this option is enabled, the Control panel will override any other Answering devices, and answer incoming calls on the first ring (refer to "Double call sequence" in the INSTALLATION MANUAL). Press **ENTER** to go back to step 3.

#### ■ Init. teleservice



**4g.** Press **ENTER** to initialise the **First test** and **Repeat test events**.

Ι	n	i	t.	te	91	e	s	e	r	Ŷ	i	C	e	
			C	or	1e									

The display will show a confirmation message before going back to step 3.

#### Maintenance call

**4h.** Enter the time and date of the *Installer Maintenance Request* (enter all zeros to disable this option), then press **ENTER**.

```
Description
Cent.Stat.call
```

**5h.** Enter the keypad message for the *Installer Maintenance Request* memo (refer to "Entering a text" under "Using the Keypad"), then press I to go back to step 3.

#### Central Station call

Cent.Stat.Date Disabled

**4i.** Enter the time and date for the *Central station call* memo (enter all zeros to disable this option), then press **ENTER**.

```
Description
Cent.Stat.call
```

**5i.** Enter the keypad message for the *Central Station Maintenance call* memo (refer to "Entering a text" under "Using the Keypad"), then press **ENTER** to go back to step 3.

#### **Options**

**1.** Using **A** or **B**, select **Options** from the PROGRAMMING menu:



#### 2. Press ENTER:

Mains	fault ti	im.
Min.	0003	5

**3.** Enter the time (in minutes) the Control panel must wait before signalling blackout (**Mains fault timeout**), then press **ENTER**.

For the system to conform to EN50131, this value must not exceed 60 minutes.

Max.Wron9	PINs
Number	03

**4.** Enter the number of times the keypad will allow entry of wrong PINs before locking or enter **0** (zero) to disable this option, then press **ENTER**.

Lock	Time
Min.	03

**5.** Enter the amount of time (in minutes) the keypad must lock for, then press **ENTER**.

Opt	ion	section	1
No	us.r	es.tamp.	

**6.** Using **A** or **B**, select the required option (see Table 9), then press **ON** or **OFF**, respectively, to enable or disable the option concerned. Press **ENTER** to go to the next Option section 2.

Ortion	section	2
Block	ist.code	

**7.** Using **A** or **B**, select the required option (see Table 9), then press **ON** or **OFF**, respectively, to enable or disable the option concerned. Press **ENTER** to go to the next Option section 3.

Opt	ion :	secti	on 3
Rea	ltim	e Chi	me

**8.** Using **A** or **B**, select the required option (see Table 9), then press **ON** or **OFF**, respectively, to enable or disable the option concerned. Press **ENTER** to continue.

NOTE: At this step, if you have already enabled the Continuous Recording option (Option section 1), the 'Stop Recording Events' will be shown

Option section 1 Cont.Recordin9
Stop recordin901 Event n. 0753

**9.** This programming field will allow you to program the Events (up to 32) which will interrupt **Continuous Recording**. Using **A** or **B**, select a position, then enter the event ID number (refer to the Event Tables ). The event ID numbers must be entered without zeros, for example, for event 0001, enter **1**. Enter **0** to deselect all events. Press **ENTER** to continue.

Timec	ut	cor	ηt		rec
(Max	021	)	0	1	0

**10.** Enter the (in seconds) between the start of an event (from those selected) and the termination of recording. Press  $\square$  to go back to the PROGRAMMING menu.

NOTE: The bottom line of the display will show the maximum value (equal to 75% of the length of message 64).

### Scheduler opt.

This programming section will allow you to program the parameters of the **Max. overtime requests** and **Overtime request** options.

**1.** From the PROGRAMMING menu, using **A** or **B**, select **Scheduler opt**.:

PR	OGF	29MM	ING
Sc	hec	Jule	r opt.

#### 2. Press ENTER:

Overtime len9th (Max 60) 20 **3.** Enter the **Overtime length** (in minutes), then press **ENTER** to go to the next parameter. Valid entries: 0 through 60 minutes.

Max	overt	ime	n.
(Max	009)	98	13

**4.** Enter the maximum number of overtime requests allowed, then press **ENTER** to go back to the PROGRAMMING menu. Valid entries: 0 through 9 requests.

NOTE: The Overtime length value multiplied by the Max. overtime requests value MUST NOT exceed 180 minutes.

Option block 1	Corresponding option
No us.res.tamp.	Disable tamper memory reset with User code
Test zone dis.	Maintain Zone Test Attribute
Delay bat.Test	Enable dynamic battery test timeout after mains restoral
No ist.res.al.	Disable alarm memory reset with Installer code
No key>leds off	LEDs OFF on Readers
Bypass z.tamp.	Bypass tamper on zone
Test bat.to arm	Disable arming on battery trouble
Cont.recording	Enable continuous recording
Option block 2	Corresponding option
Block inst.code	Lock Installer code
No arm z.open	Disable arming on partition alarm
Legal Time	Enable automatic changeover Standard time/Summer time
DTMF Voice menu	Voice guide for commands made over the phone
Logger on RS232	NOTE: This option is available via Keypad only.
ZoneAlarmFlash	Shows open zones on the keypad display
Chime in memory	Shows Chime zones on the Keypad display (memory)
Option block 3	Corresponding option
·····	The user can choose whether to
code nierarona	enable the Installer code or not
Tamp.OnExpInLoss	Generates a Tamper event if the Expander In is not detected
Tamp.OnKeyp.Loss	Generates a Tamper event if the Keypad is not detected
Realtime Chime	Shows Chime zones on the Keypad display (real time)

Disab.False Key	Disable false key event
NoArmReceivLost	Disable arming on wireless receiver lost
NoArm ZoneTroub	Disable arming on wireless zone fault

**Table 9** Keypad options and their corresponding Computer Software options

# **Default PIN**

The Installer Code default PINs can be found in Table 10:

- the no. column shows the ID Number of the respective Installer Code;
- the **Description** column is for the label of the respective Installer Code;

➢ the **PIN** column shows the PIN of the respective Installer Code, if it is "Active" and "Unhidden" (refer to the "Installer PIN" under "KEYPAD OPERATIONS").

n.	Description	PIN
196		0196
197		0197
198		0198
199		0199
200		0200

 Table 10)
 KYO320 installer code Default PIN.

# APPENDIX

# K3/VOX2 Voice Board

# Disconnect the Mains and battery power before starting the installation procedure.

The **K3/VOX2** Voice board records and plays Voice messages. The recorded voice messages can be assigned to the:

- Status enquiry
- Answer message
- Dialler messages
- ➤ Memo
- Continuous recording

#### Features

- □ Messages stored on ChipCorder
- Manages up to 64 Voice messages with programmable sound quality and duration — varying from 3 minutes 48 seconds of high sound quality to 8 minutes 44 seconds of low sound quality
- □ Speaker for Message playback
- □ Telephone-dialler
- □ Answerphone
- □ Telephone access
- Listen-in and remote 2way Speaker system (Teleassistance)
- IN At default the Voice board will record messages, if power to the Voice board fails, the recorded messages will be stored for at least 2 hours.

#### Identification of Parts

#### No.

#### DESCRIPTION

- **110** LED terminal : in the "remote Listen in" case, a LED with 470 Ohm resistor must be connected between the LED terminal and the + terminal.
- 111 Main Unit Voice board connector
- 112 Microphone
- **113** Local Microphone Jumper (**114**): **Constant** = Local Microphone enabled (at default) **Constant** = Local Microphone disabled
- **114** Speaker Connector
- **115** Terminal board (for Microphone board connection) (VOX-REM)

#### Installation

Work carefully through the following steps (see Figure 2 and Figure 2 in the Installation Manual Vol.1).

- 1. Insert the Speaker into one part of the plastic holder.
- 2. Join the two parts then twist to lock in place.
- 3. Screw the Speaker onto the backplate.
- **4.** Plug the Voice board into the connector **17**, secure it firmly in position by means of the screws (see Installation Manual Vol.1).
- 5. Plug the Speaker into the connector **114** on the Voice board.

#### Expanding Listen-in coverage

You can expand Listen-in coverage by connecting several Microphone-Speaker boards to the Voice board. This is especially useful for large premises, or in places where there is a high risk of sound muffling caused by walls or heavy machinery, etc.

In the text and diagrams in this section, the term "Voice Module" refers to VOX-REM Microphone-Loudspeaker board.

The **VOX-REM** Microphone-Speaker board can be housed in custom made accessory boxes with wire entry knockouts (order code: **MINI-BOX**). The MINI-BOX can be wall mounted, or flush mounted to 503 outlet boxes



Figure 2 Voice board components

or similar. The installation instructions can be found in the MINI-BOX package.

The Microphone and Loudspeaker should be housed in separate boxes. "Voice Modules" should be mounted in places which allow easy access. DO NOT mount VOX-REM Microphone-Speaker boards until you have tested the placements for squealing.

Connect the "Voice Modules" in parallel to the Voice board, as shown in Figure 3. The number of "Voice Modules", and the connection lengths can affect sound quality, therefore:

- DO NOT connect more than 4 "Voice Modules" to the Voice board.
- DO NOT use more than 50 metres of cable between each "Voice Modules" and the Voice board.
- IN order to improve message quality, use the Voice Board Microphone, and temporarily disconnect the other "Voice Modules".

All "Voice Modules" will be interconnected during Teleassistance mode thus allowing users to communicate with one another.

#### Manual selection

Installation of several "Voice Modules" will allow the user to listen-in on the various parts of the premises at the same time, however, sound tracing will not be possible.

For sound tracing—complete the connections, as shown in Figure 4. The wiring diagram shows the Voice board and 4 "Voice Modules", and also:

- an M-IN/OUT Expanders programmed as Expander with 6 Outputs.
- an M-IN/OUT Expanders programmed as Expander with 6 Zones.
- ➢ two Omnia/4R Relay modules

The Control panel must be programmed as follows:

- All the Outputs of the M-IN/OUT Expander, programmed as Expander with 6 Outputs, as such must be Reserved Outputs (manual), Bistable, Normally Open;
- All the Zones of the M-IN/OUT Expander, programmed as Expander with 6 Zones, must be Instant, Repetitive, Normally Open (DO NOT assign these to Partitions). The zones must be associated with a Standby Voice message that identifies the location of the zones (e.g. Kitchen, Sitting room, etc.).

#### Enable Remote Listen-in via Telephone

- 1. Press 3 (to access Outputs Management).
- 2. Press 1 (to select **ON**), then enter the number (3 digits) of the required "Voice Module" Output.
- 3. Press 1 (to start the Remote Listen-in session).

For example, if the M-IN/OUT Expander, programmed as Expander with 6 Outputs (see "M-IN/OUT Programmable Input/Output Expander" in the Installation Manual, Vol.1), is assigned address no.01, its hardware outputs T1, T2, T3 and T4 correspond respectively to software outputs nos. 7, 8, 9 and 10. Therefore, to activate the first "Voice Module" (connected to hardware Output T1 — software Output no. 7) enter: 310071 (3 to access Outputs Management; 1 to select O; 007 to select Output no. 7; and 1 to start the Listen-in session).

 To Listen-in on other parts of the premises during the same call: press # (to stop the active "Voice Module".); 3 (to access Outputs Management); 0 (to select OFF); enter the Identifier number of the active "Voice Module" Output (3 digits — 007 in the example), then repeat steps 1 through 3.

### Auto-select mode

The Auto-select mode will allow the Control panel to select the nearest "Voice Module" to the zone in alarm. Figure 4 shows the necessary wiring. The Outputs and Event-Actions must be programmed, as follows.



Figure 3 Connecting 4 VOX-REM Microphone Board

Software Outputs **7**, **8**, **9** and **10** (available for this application) must be: **Monostable** and **Normally open** (DO NOT program these Outputs as Reserved).

The **ON Time** of the Output determines how long the "Voice Module" will stay ON after activation, therefore, must be long enough to allow the User to Listen-in on the location. Each Output, connected as shown in the wiring diagram (Figure 4) will be able to control one "Voice Module".

Use the Partition and/or Control panel Events in the Event-Actions page to activate the Dialler and Telephone Communicator Outputs. In this way, the zone events will be available for "Voice Module" management. Program the zone events (relevant to the location concerned) to activate the Output that controls the respective "Voice Module". Repeat this procedure for the other Outputs, as required.

Upgrade FirmwareAuto-select mode will allow the User (during a dialler call) to activate Remote listen-in on the location that generated the Alarm.

#### Manual and Auto-select mode

Manual and Auto-select Listen-in can be integrated. This will allow the User to select (manually) specific locations during standby status.

Use 4 Outputs for Manual-select Listen-in mode, and 4 Outputs for Auto-select listen-in mode.

The Outputs must be connected in two's — one Manual and one Auto, as shown in Figure 4.

To ensure proper functioning of Auto-select mode, the manually controlled Outputs must be in standby status. Therefore, the Outputs must always be restored to Standby when a manually controlled listen-in session ends.



Figure 4 Wiring for Manual-select Listen-in mode

# Disconnect the Mains and battery power before starting the installation procedure.

The optional K3/PRT2 Printer Interface will allow you to connect the Control panel to a parallel printer for:

Real-time printout of events (refer to "Accessories" under "Configuration" in the Programming" section);
 Entire Log printout (refer to "Print Log" under "Keypad Codes – User" in the Programming" section and/or "Event Log" under "Operating your system from a Keypad" in the USER MANUAL);

— **Specific events** printout (refer to "Log — Events Setup" under "Programming" in the Installation Manual Vol.1).

#### Identification of Parts

The following Table describes the parts illustrated in Figure 5. The numbers in boldface in this section, refer to parts in Figure 5 (unless otherwise specified).

DESCRIPTION

#### No.

**116** Interface connector

117 Printer connector

### Connecting the Printer

If you prefer to chase the lead, use a plug-free cable (refer to Table 11 for the wiring specifications and see also Figure 6). Moulded plug leads (usually supplied with the printer) cannot be chased.

#### Installation instructions

Work carefully through the following steps (see Figure 5 and Figure 6).

- **1.** Lay the cable between the printer and the Control panel.
- 2. Plug the Printer interface into the connector 15 on the Control panel PCB (see the paragraph "Identification of parts" in the Installation Manual, Vol.1) then, using the screws, secure it in place.
- **3.** Connect the Printer lead to the connector **117** on the Printer Interface.

Interface connector: DB25 connector, male																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19
	18 wire cable + shield: the shield must be soldered to the metal casing of both connectors																
1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 32 31 36 15÷17/19÷30																
	Printer side: Centronics connector, 36 pin, male																

 Table 11
 Wiring diagram of the cable between the parallel printer and the Printer Interface



Figure 5 Printer Interface components

Image: Constraint of the second se	inter side: entronics connector, mal is from 15 to 17 and 19 throu ist be connected together d to pin 19 of the DB25 conn	Interface side: e: DB25 gh 30 connector ector male
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18 wire shielde (max. length the shield must be to the metallic of both conne 11 11 11 11 11 11 11 11 11 1	d cable 10 m): e soldered casing ectors 10 22 10 22
© © © © © © © © © © © © © © © © © © ©		

Figure 6 Wiring diagram of parallel printer cable

# **Wireless Receivers**

The VRX32-433 and VRX32-868 Receiver (accessory item) will allow your system to manage up to 32 Wireless detectors (PIRs, Magnetic Contacts, Smoke detectors), and up to 16 Wireless keys (KeyFobs). VectorRX-8 Receiver manages up to 8 Wireless detectors (PIRs, Magnetic Contacts, Smoke detectors), and up to 8 Wireless keys (KeyFobs). Please read this section to get an overall view of the steps involved in installing the Receivers.

The term "Receiver or VectorRX Receiver" has been used in the parts where the functions and operating modes are common to all Receivers. However, in parts where the functions and operating modes differ, the respective Receiver has been specified.

#### Identification of Parts

The following Table describes the components of the Receiver (see Figure 8 - 7 - ). The numbers in boldface in this section, refer to the descriptions in the Table and Figure.



Figure 8 VectorRX-8 Receiver components



Figure 7 VRX32-433 / VRX32-868 Receiver components

# No. DESCRIPTION

- **118** Spring catch slots (2)
- **119** Anchor screw locations (3 x ø 4.6 mm)
- **120** Antennas (2)
- **121** Microprocessors (2)
- 122 Seize microswitch
- 123 Tamper button
- **124** Screws (2)
- **125** Wire entry (10 x 6.4 mm)
- 126 Spring Catch
- 127 Terminal board
- 128 PCB clip

#### Choosing a Mounting Location

Mount the Receiver and Wireless Devices after the placement tests.

Choose a place that is:

- > Dry
- Central to the proposed placement of all Wireless Devices
- > As close to the ceiling as possible
- Far from sources of interference such as: electrical noise (computers, televisions, electric motors in appliances, and heating and air-conditioning units), and large metal objects (heating ducts and plumbing) which may shield the antennas.

Ensure that no electrical wires run over the Receiver antennas. When mounting in a basement, place the module as high and as close to the underside of the first floor as possible. The range of the Receiver will be reduced if the unit is mounted below ground level.

#### Mounting the Receiver

When choosing the mounting location ensure that the mounting surface is flat, as uneven surfaces may impair proper functioning of the Seize microswitch **124**.

Read the following instructions carefully before mounting the Receiver (refer to the Figure 8 - 7 - ).

- 1. Loosen the screws **124** (it is not necessary to remove them).
- 2. Press down on the tab **118** to release the backplate from the frontplate.
- **3.** Lift the frontplate upwards to a 90° angle, then pull the frontplate away from the backplate.
- Pull the connection wires through the wire entry 125.
- **5.** Place the backplate in the proposed placement, mark the screw positions **119** then drill the screw holes.

A Be careful to avoid conduits and plumbing when drilling.

- 6. Place the backplate in the proposed placement, pull the wires through the wire entry **125**, then secure the backplate to the wall (use anchor screws).
- Complete the connections on the terminal board 127 (refer to "Connecting the Receiver").
- 8. Push the frontplate spring catches into the slots on the backplate then push the bottom of the frontplate into place.
- 9. Fasten the screws 124.

#### ■ Connecting the Receiver

Connect the Receiver terminal **127** to the Control panel terminal (as shown in Figure 9).

Use Shielded cable for the connection: connect one end of the shield to terminal **BLK** on the Interface, and leave the other end free. Do not use more than 50 metres total wire length.

#### Technical Specifications

The following table contains the technical Specifications of the Vector Receivers.

Voltage	13.8 V <del></del>
Current draw	50 mA
VectorRX-8 and VRX32-433 Frequency	433 MHz
VRX32-433 Frequency	868 MHz
Dimensions (W x H x D)	146 x 290 x 28 mm
VectorRX-8 Dimensions	135 x 79 x 26
VRX32-433 and 868 Dimensions	145 x 105 x 25
VRX32-433 and VRX32-868 Weight	152 g
VectorRX-8 Weiaht	90 a



Figure 10 K-NET components



Figure 9 Connecting the receivers to the Control panel

# **K-NET MODULE**

Installing the K-NET Module (Refer to K-NET manual), will allow you to connect several Control panels to the LAN and control them from a remote location .

The K-NET Module can be enrolled via Keypad only, and once enrolled ("Present"), the Control panel will no longer be able to communicate via computer.

#### Identification of parts

The following table describes the components shown in Figure 10. The numbers in boldface used in this section refer to these components.

#### No.

#### DESCRIPTION

- **129** Indicator light (S) for connection speed: off = 10 Mbps; on = 100 Mbps
- **130** Connector for the Control panel link.
- 131 Microprocessor
- 132 LAN link
- **133** Reserved connector
- **134** Terminal board
- **135** YELLOW indicator light for LAN traffic
- 136 GREEN indicator light for LAN present
- **137** Indicator light (L) for IP Module status
- 138 Fixing brackets
- 139 IP Module power supply cables
- 140 PC-Link cable
- 141 IP Module
- 142 Control unit motherboard
- **143** RS-232 serial port
- 144 IP Module fixing holes
- 145 Control unit base

#### Mounting the K-NET Module

The K-NET Module should be installed in the control unit base, as illustrated in Figure 11 and in accordance with the following instructions.

- A Before installing the IP Module, cut the control unit off from its power supply (it should be disconnected from the electricity mains and the batteries). If this is not possible, do not connect the IP Module power supply until the very end of the process: connect terminal [M] first, followed by terminal [+V].
- **1.** Open the control unit as described in the corresponding set of instructions.
- 2. Fix the Module to the base of the control unit using the screws supplied, making sure it is correctly aligned with the screw anchor holes (144).
- **3.** Connect the Module connector (**130**) to the control unit serial port (**143**) using the PC-Link cable supplied (**140**).
- **4.** Connect connector (**132**) to the LAN using an Ethernet cable.
- Use a category 5 (or better) shielded Ethernet cable (STP or FTP).
- 5. Where present, connect the [OC] terminal to terminal block (134).
- 6. Connect terminals [+V] and [M] on the terminal block (134) to the corresponding terminals [+B4] and [M] on the control unit motherboard (142).
- 7. Reconnect the control unit to the power supply.



Figure 11 Example of a K-NET configuration

**8.** Program the K-NET Module as described in the "Programming" section of the K-NET manual.

#### ■ Viewing the IP Address

If the DHCP is configured, the current IP address of the KNET circuit board may be checked in 2 ways:

- using a keypad connected to the KYO320 control unit with the network P.C.B. present and configured (see procedure in the Initial programming section of the K-NET manual), after entering the Installer menu, press the A or B buttons to display the SERIAL PORTS option, followed by the ENTER button. View the IP address and return to the Installer menu by pressing the ESC button. (see also the Kyo320 Installation manual Vol.2 – Keypad procedures);

- for advanced users only: from the control screen of a Windows PC connected to the same network, use the command "PING KNET-xxyyzz", where xxyyzz are the last 6 digits of the MAC-ADDRESS printed on the KNET label.

A Windows PC may be configured so that it does NOT allow this type of command, meaning this type of procedure will not be available.

#### Technical Specifications

The following table contains the technical specifications of the K-NET Module.

Voltage	9.6 ÷ 27.6 V <del></del>
Current draw	250 mA
Standby current	50 mA
Operating Temperature	-5 ÷ +40 ° C
Dimensions (W x H)	95 x 65 mm

# **Reset default**

To reset the factory default programming (see the Installation Manual Vol.1):

- **1.** Remove all power from the Control panel (Mains and battery).
- 2. Remove the jumper 21 (M).
- 3. Wait at least 20 seconds.
- 4. Replace the jumper 21 (M).

- 5. Reset the power supply to the Control Panel (see "Connecting a Power Supply" in the "INSTALLATION" chapter in the Installation Manual, Vol.1).
- A Jumper 21 (M) must be disconnected for at least 20 seconds in order to ensure full reset of the factory default programming, and to avoid problems that may occur when the power supply is restored.

**Installer code locked** If the **Lock Installer code** option is enabled, the Installer PIN will not be able to reset to factory default (refer to Lock Installer code in the Options section in the Installation Manual Vol.1).

# **Reporting Formats**

This paragraph describes the structures of the main reporting formats supported by the system.

# ■ TELIM

The TELIM protocol transmits as follows:

- User Code (4 digits 0 through 9);
- Event Code: 41 in the event of Alarm or Tamper on the first 16 zones of the Control panel, 0 in all other cases;
- 2 byte (16 bit) representing the status of the first 16 zones 0 Standby; 1 = Alarm or Tamper.

#### Contact ID

Contact ID transmits as follows:

- > **User Code** (4 hexadecimal digits 0 through F );
- Qualifier: 1 = new event or Disarming operation; 3 event restore event or Arming operation
- Class Code (CL. column): identifies the type of event (Alarm, Trouble, Fire, etc.);
- Event Code (CODE column): identifies the event (Event Codes can be changed, refer to "Actions" under "Digital Communicator" in the "PROGRAMMING" section in the Installation Manual Vol.1);
- Group Number (GROUP column), where possible, identifies the Partition of the "object" which generated the event;
- Zone Number (ZONE column), where possible, identifies the "object" (Zone, Code, Key, etc.) which generated the event.

#### SIA/SIA over K-NET

SIA/SIA over K-NET is a FSK (Frequency Shift Keying) format, that transmits alternatively in two slightly different

EVENT		CC		D	SIA			
	CL.	CODE	GROUP	ZONE	TYPE	1 <sup>st</sup>	2 <sup>nd</sup>	
Alarm on zone	1	30	00	zone no.	BA/BR	0000	zone no.	
Tamper on zone	1	37	00	zone no.	TA/TR	0000	zone no.	
Fire alarm on partition	1	10	part. no.	000	FA/FR	part. no.	000	
24h alarm on partition	1	33	part. no.	000	BA/BR	part. no.	000	

 Table 12
 Structure of the main Reporting formats supported by the System (continued ...)

EVENT		CC		D	SIA		
	CL.	CODE	GROUP	ZONE	TYPE	1 <sup>st</sup>	2 <sup>nd</sup>
Burglar alarm on partition	1	30	part. no.	000	BA/BR	part. no.	000
Generic alarm on partition	1	30	part. no.	000	BA/BR	part. no.	000
Tamper alarm on partition	1	37	part. no.	000	TA/TR	part. no.	000
Generic+Tamper alarm on partition	1	37	part. no.	000	TA/TR	part. no.	000
Away alarm on partition	1	30	part. no.	000	BA/BR	part. no.	000
Stay alarm on partition	1	30	part. no.	000	BA/BR	part. no.	000
Fire alarm on panel	1	10	00	000	FA/FR	0000	000
24h alarm on panel	1	33	00	000	BA/BR	0000	000
Burglar alarm on panel	1	30	00	000	BA/BR	0000	000
Generic alarm on panel	1	30	00	000	BA/BR	0000	000
Tamper alarm on panel	1	37	00	000	TA/TR	0000	000
Generic+Tamper alarm on panel	1	37	00	000	TA/TR	0000	000
Tamper on Main unit	1	37	00	000	TA/TR	0000	000
Stop-alarms jumper	3	00	00	000	RO/RC	0000	000
Balanced tamper	1	37	00	000	TA/TR	0000	000
Tamper on supervised output	3	24	00	000	ΥΑ/ΥΗ	0000	000
Tamper BPI readers	3	41	00	000	ET/ER	0000	000
Tamper BPI input expanders	3	41	00	000	ET/ER	0000	000
Tamper on keypads	3	41	00	000	ET/ER	0000	000
Tamper output expanders	3	41	00	000	ET/ER	0000	000
Tamper power stations	3	41	00	000	ET/ER	0000	000
Tamper wireless device	3	41	00	000	ET/ER	0000	000
Warning readers	3	33	00	000	ET/ER	0000	000
Warning BPI input expander	3	33	00	000	ET/ER	0000	000
Warning keypads	3	33	00	000	ET/ER	0000	000
Warning output expanders	3	33	00	000	ET/ER	0000	000
Warning power stations	3	33	00	000	ET/ER	0000	000
Warning wireless device	3	33	00	000	ET/ER	0000	000
False key	4	21	00	000	DD/DR	0000	000
Warning fuse +F	3	00	00	000	YP/YQ	0000	000
Warning fuse +F1	3	00	00	000	YP/YQ	0000	000
Warning fuse +B1	3	00	00	000	YP/YQ	0000	000
Warning fuse +B2	3	00	00	000	YP/YQ	0000	000
Warning fuse +B3	3	00	00	000	YP/YQ	0000	000
Warning fuse +B4	3	00	00	000	YP/YQ	0000	000
Warning fuse +B5	3	00	00	000	YP/YQ	0000	000
Warning fuse BPI1	3	00	00	000	YP/YQ	0000	000
Warning fuse BPI2	3	00	00	000	YP/YQ	0000	000
Warning fuse KEYBUS	3	00	00	000	YP/YQ	0000	000
Warning mains failure	3	01	00	000	AT/AR	0000	000
Warning low battery	3	02	00	000	YT/YR	0000	000
Warning power trouble	3	00	00	000	YM/YR	0000	000
Warning mains failure on Power station	3	01	00	000	AT/AR	0000	000

 Table 12
 Structure of the main Reporting formats supported by the System (continued ...)

EVENT		CC		D		SIA	
	CL.	CODE	GROUP	ZONE	TYPE	1 <sup>st</sup>	2 <sup>nd</sup>
Warning low battery on Power station	3	02	00	000	YT/YR	0000	000
Warning power trouble on Power station	3	03	00	000	YM/YR	0000	000
Battery not connected on Power station	3	00	00	000	YP/YQ	0000	000
Battery charger trouble on Power station	3	00	00	000	YP/YQ	0000	000
Switching not connected on Power station	3	00	00	000	YP/YQ	0000	000
Short circuit output ½/3 on Power station	3	00	00	000	YP/YQ	0000	000
Battery low memory	3	07	00	000	YT/YR	0000	000
Warning low battery on wireless device	3	38	00	000	XT/XR	0000	000
Memory tamper BPI device	3	41	00	000	ET/ER	0000	000
Memory balanced tamper	1	37	00	000	TA/TR	0000	000
Memory tamper on main unit	1	37	00	000	TA/TR	0000	000
Memory false key	4	21	00	000	DD/DR	0000	000
Memory tamper supervised output	3	21	00	000	YA/YR	0000	000
Lost wireless zone	3	33	00	000	ET/ER	0000	000
Warning generic	3	00	00	000	BT/BJ	0000	000
Installer maintenance	6	00	00	000	QA/QH	0000	000
Central station maintenance	6	00	00	000	QA/QH	0000	000
Standard time/Summer time changed	6	25	00	000	JD/UX	0000	000
Not Ready-to-arm partition	3	00	part. no.	000	NF/NF	part. no.	000
Extended not Ready-to-Arm partition	3	00	part. no.	000	NF/NF	part. no.	000
Partial arming partition	4	41	part. no.	5	NL/OP	part. no.	000
Global arming partition	4	00	part. no.	5	CL/OP	part. no.	000
Disarming partition	4	00	part. no.	5	OP/CL	part. no.	000
Exit time on partition	6	00	part. no.	000	UX/UX	part. no.	000
Entry time on partition	6	00	part. no.	000	UX/UX	part. no.	000
Autoarming warning partition	6	00	part. no.	000	UX/UX	part. no.	000
Memory alarm on partition	1	30	part. no.	000	BA/BR	part. no.	000
Memory tamper on partition	1	37	part. no.	000	TA/TR	part. no.	000
Valid key	4	22	00	key no.	JP/UX	0000	key no.
Key present on reader	4	22	00	reader no.	JP/UX	0000	reader no.
Valid key on partition	4	22	00	partition no.	JP/UX	0000	partition no.
Alarm stop on partition	6	00	part. no.	000	BC/UX	part. no.	000
Alarm stop on panel	6	00	00	000	BC/UX	0000	000
Bypass zone	5	70	00	zone no.	BB/BU	0000	zone no.
Telephone line trouble	3	51	00	000	LT/LR	0000	000
Error printer	3	36	00	000	VT/VR	0000	000
Call queue full	6	24	00	000	JL/UX	0000	000
Timer	6	00	00	000	UX/UX	0000	000

 Table 12
 Structure of the main Reporting formats supported by the System (continued ...)

**<sup>5</sup>** Transmits the Identification Number, reduced by 1 unit, of the User Code which produced the event (from 000 to 194) or the Identification Number, increased by 199 units, of the Digital Key which produced the event (from 200 to 699). For example, if the event was produced by User Code no.1, 000 (1-1) is transmitted; if the event was produced by Digital Key no.1, 200 (1 + 199) is transmitted.

EVENT		СС		D	SIA			
	CL.	CODE	GROUP	ZONE	TYPE	1 <sup>st</sup>	2 <sup>na</sup>	
Real time of zone	6	00	00	zone no.	UA/UH	0000	zone no.	
Test	6	02	00	000	RP/UX	0000	000	
Reset on partition	6	00	part. no.	000	BC/UX	part. no.	000	
Reset on panel	6	00	00	000	BC/UX	0000	000	
Super key	6	00	00	000	UX/UX	0000	000	
Key F on KeyFob	6	00	00	000	UX/UX	0000	000	
Key A on KeyFob	6	00	00	000	UX/UX	0000	000	
Key P on KeyFob	6	00	00	000	UX/UX	0000	000	
Chime on partition	6	00	part. no.	000	UX/UX	part. no.	000	
Negligence on partition	4	04	part. no.	000	CD/UX	part. no.	000	
Delinquency on partition	6	00	part. no.	000	BT/BU	part. no.	000	
Block keypad	4	21	00	000	JA/UX	0000	000	
Recognized user code	4	22	00	code no.	JP/UX	0000	code no.	
Recognized user code on Keypad	4	22	00	keypad no.	JP/UX	0000	keypad no.	
Recognized user code on Partition	4	22	00	partition no.	JP/UX	0000	partition no.	
Invalid code	4	21	00	. 000	DD/DR	0000	. 000	
Recognized installer code	6	27	00	000	LB/LX	0000	000	
Second dialler on	3	50	00	000	UX/UX	0000	000	
Kissoff recognized	3	50	00	000	UX/UX	0000	000	
Start telephone call	3	50	00	000	UX/UX	0000	000	
Teleservice requested	6	01	00	000	UX/UX	0000	000	
Start Teleservice	6	01	00	000	RB/RS	0000	000	
Dialler action OK	3	50	00	000	UX/UX	0000	000	
Action on digital communicator OK	3	50	00	000	UX/UX	0000	000	
Digital communicator action OK	3	50	00	000	UX/UX	0000	000	
Teleservice action OK	3	50	00	000	UX/UX	0000	000	
Dialler action failed	3	54	00	000	UX/UX	0000	000	
Action on digital communicator failed	3	54	00	000	UX/UX	0000	000	
Digital communicator action failed	3	54	00	000	UX/UX	0000	000	
Teleservice action failed	3	54	00	000	UX/UX	0000	000	
User event	6	00	00	000	UX/UX	0000	000	

**Table 12** Structure of the main Reporting formats supported by the System

frequencies. The frequency shift is usually 170 Hertz, and the two frequencies are associated with 0 and 1 of the binary digit which transmits the following data:

- **User Code** (4 digits 0 through 9)
- > Function Code (1 digit; N=new event, O=restore event)
- Date (month-day-year)
- > **Time** (hour-minutes-seconds)
- > Event Type (refer to the TYPE column in Table 12)
- Event Agent (refer to the 1<sup>st</sup> and 2<sup>nd</sup> columns in Table 12).

#### **DbManager**

**DbManager** (in Bentel security Suite) is an application developed to copy safely customer's data from a source to a destination. For example, data can be copied on a USB Flash Disk and can be used on a laptop. Besides the DbManager can recover corrupted database data.

DbManager main window contains **File**, **Acces Levels**, **Language** and **Help** menus, all described in the following paragraphs.

#### File Menu

**Data transfer** : Select **Data transfer** to copy customer's data (see par. "Data transfer").

Tools: Select Tools to access data recover utilities.

Exit: Select Exit to terminate the program.

#### Data Transfer

Data Transfer from the File menu opens the Data Transfer window described below (see also figure 13).

**Origin** Select the disk and folder which contains the customer accounts concerned.

The Bentel security Suite application will save customer account data to the \DATA installation folder of the suite (Bentel).

**Customers** Select the customer accounts concerned from the Customer account list. To select/deselect ALL customer accounts click on Selection.

**Destination** Select the destination disk and folder.

IS The customer accounts must be saved to the \DATA installaton folder of the BSS Software suite (Bentel).

Data to transfer Select the data to export.

**Show warnings** Click on Show warnings if you want information regarding the risk of exporting customer accounts with duplicated Codes or Names from the Origin folder to the Destination folder.

In the event of a duplicated Name but different Code a window as per figure **14a** will open with the following options.

- Keep the data of the customer account from the Origin folder will overwrite the data of the customer account with the duplicated Name in the Destination folder.
- Create (at default) the data will be saved as a new customer account with the same Name but different Code as the customer account in the Origin folder.
- > Do Not export the data will not be saved.

In the event of a duplicated Code but different Name a window as per figure **14b** will open with the following options.

- Keep the data of the customer account from the Origin folder will overwrite the data of the customer account with the duplicated Code in the Destination folder.
- Create (at default) the data will be saved as a new customer account with the same Name but different Code as the customer account in the Origin folder.
- > Do Not export the data will not be saved.



Figure 12 DBmanager main window

If you disable the Show Warning option, the application will enable the Create option automatically.

**Panel types** Check in this box panel types involved in the data transfer. The **Customers** window will show all the customers using the selected panel type.

**Print** Select **Print** to print down a list showing all customers shown in the **Customers** window.

#### Tools

Tools command opens Tools window, as shown below.

**Data path** Select the source drive and folder containing the database to be restructured/reindexed.

**Update structure** Use **Update structure** to regenerate the internal phisical structure of the database. If during normal use, one of BSS softwares shows a "File not found" or "Table does not exist" error, update your database's structure.

**Reindex** Use **Reindex** to generate all the database indexes. If during normal use one of BSS softwares shows a "Corrupt table index" or "Index for field does not exist" error, perform a reindex on your database.



Figure 13 Data transfer window

Close Closes the Tool window.

IS Almost all database errors are caused by a phisical damage of its files. Even if Bentel utilities can recover corrupted database files, if you're having frequent database errors, there could be some hardware problem on your PC

#### Access Levels Menu

Access Levels menu provides the possibility to manage users data for all Bentel Security Suite softwares.

**Users List** Shows the users list wondow. If you want to delete or modify a user, username and password will be requested.

**New User** Inserts a new user in the database. Select name and password, and then choose user's rights.

**Language menu** shows the **Language selection** window. Choose a new language and click OK.

### <u>Help Menu</u>

Help shows this file for a fast reference.

#### Copying Customer accounts

To copy customer accounts

- **1.** Select Export data from the File menu.
- 2. Select the disk and folder of the customer accounts concerned from the Origin box.
- **3.** Select the required customer accounts from the Customers box.
- **4.** Select the destination disk and folder from the Destination box.
- 5. Select Log and/or Show warnings.
- 6. Select Execute if there are no customer accounts in the Destination folder, the following warning will be shown.

Warran 1		×
1	Database not evalue in C. (Document: Would you create it ?	
	294 MP	le

7. Select Yes to copy

A)	2 Owner action
Customer in organ	Customer in origin
Code 1897	Code 1997
Name Cliente di provis #1	Harre Clerite di prova \$2
Cily Milano	Dip Milano
Last change 13/05/2006	Ladi shange 13/06/2006
Already exists in destination as	Alleady exists in destination as
Code: 5995	Code 1997
Name: Cleate di prova #1	Name Clerce if prove \$1
City: Milano	Dip Milano
Last charge: 12/05/2005	Last change 13/05/2008
R is possible to keep defination same or create a new on as	R is people to keep destination name or create a new on as
Code 1997	Code 1098
Name Clente di prevo #1 00	Name Clarite di prove #2
City Miane	Dip Milano
Deces action	Choose action
← Keep	C Keep
← Eestin	C Eleven
← Not export	C Molt expan:
★ Cancel	X Cancel

Figure 14 Choose action Windows



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