

KYO Unit



PROGRAMMING FROM KEYPAD



BENTEL
SECURITY

CE MADE
IN
ITALY



This control unit supports the following keypads and key readers:
 PREMIUM, CLASSIKA, MIA series, ALISON series, OMNIA/TAST-R, NC2/TAST, ICON/KP, ECLIPSE, ECLIPSE2
 To keep things simple, this instruction manual refers only
 to the PREMIUM and CLASSIKA keypads and ECLIPSE2 key readers.
 If you require further information relating to the other types of keypad/Key Reader supported by this control unit,
 the previous version of this instruction manual may be downloaded from the web address www.bentelsecurity.com

KYO 4 M – KYO 8 M – KYO 8W M – KYO 32 M – KYO 4 P – KYO 8 P – KYO 8W P – KYO 32 P
 KYO 8GWP-SW1 – KYO 8GWP-SW2 – KYO 8GWL-SW1 – KYO 8GWL-SW2
 KYO 8G P-SW1 – KYO 8G P-SW2 – KYO 32G P-SW1 – KYO 32G P-SW2
 KYO 8G L-SW1 – KYO 8G L-SW2 – KYO 32G L-SW1 – KYO 32G L-SW2
 KYO16D

For all the Control Panels the performance level is II (unless otherwise specified).
 The KYO16D performance level is I

Hereby, Bentel Security, declares the above mentioned Control Panels to be in compliance with the
 essential requirements and other relevant provisions of 1999/5/EC Directive.

**The complete R&TTE Declaration of Conformity for each Panel can be found at
www.bentelsecurity.com/dc.html.**

These Control Panels comply with CEI 79-2 2^o ed. 1993.

*Installation of these systems 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.*

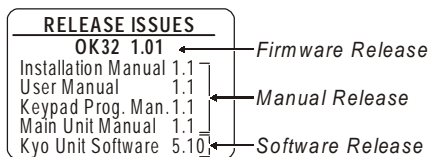
*The above mentioned Control panels have been designed and made
 to the highest standards of quality and performance.*

*The manufacturer recommends that the installed system should be completely tested at least once a month.
 BENTEL SECURITY Srl shall not assume the responsibility
 for damage arising from improper application or use.*

The above mentioned Control panels have no user-friendly components, therefore,

IMPORTANT: The following information is for disassembled Control Panels ONLY.

Ensure that the Manual you are using complies with the requirements (see below) on the
 “RELEASE ISSUES” label inside the package. Upgrades of the KYO Unit Software Re-
 lease are also suitable.



DO NOT attempt to assemble and install the Control Panel using a manual that does not
 comply with requirements.

The **Manual Release Number** of each Manual is shown at the bottom of the last page,
 between the Code and Date, as shown below.

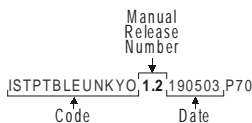


TABLE OF CONTENTS

Introduction	5
Code Limitations	5
Accepted Keypads	6
Enrolling an LCD Keypad at Address 08	6
Adjusting Brightness, Contrast and Volume	6
The Liquid Crystal Display (LCD)	8
Programming from the LCD Keypad	9
Customizing the System	9
Programming	10
Exiting Programming	10
Actions	10
Zones	11
Outputs	13
Times	14
Installer Code	16
Keys	16
■ Key/Card option (if selected at step 2.)	16
■ Wireless option (if selected at step 2.)	17
Codes	18
Readers	19
Keypads	20
■ Program option	20
■ Language option (Kyo32 and Kyo8W Series only)	20
Date/Time	21
Timers	21
Telephone	22
Teleservice	23
Test Ev.	23
Events	24
Options	25
Strings	26
Default	27
Input Expanders	28
Output Expanders	28

Programming from the LED Keypad	29
Accessing Programming	29
Exiting Programming	29
Programming	30
Keypads	30
Readers	31
Setting up the Zones	32
Setting up the Outputs	35
Setting up Times, Inactivity and Negligence	37
Telephone	38
Setting up Teleservice and Test Event	40
Events	41
Setting up the Scheduler	42
Options	43
Codes	45
Programming Keys and Cards	46
Extra Parameters	48
Customized Protocol Parameters	48

INTRODUCTION

You can program the system using the ‘KyoUnit’ Software Application and a computer (refer to the “*INSTALLATION MANUAL*”). You can also program some models from the KYO range via an LED Keypad (refer to the following Table).

Model	Programmable via LED Keypad
KYO 4M / KYO 8M / KYO 4P / KYO 8P	YES
KYO 8WM / KYO 8WP	NO
KYO 8GP-SW1 / KYO 8GP-SW2	YES
KYO 8WGP-SW1 / KYO 8WGP-SW2	NO
KYO 8GL-SW1 / KYO 8GL-SW2	YES
KYO 8WGL-SW1 / KYO 8WGL-SW2	NO
KYO 32 Series	NO

This manual contains instructions regarding programming via Keypad. For information regarding the system parameters, refer to ‘PROGRAMMING FROM PC’ in the ‘INSTALLATION MANUAL’.

Code Limitations

The INSTALLER Code can program the system but cannot program the PINS of the 24 User Codes.

MAIN USER Codes can program the PINs of User Codes (but not other Main User Codes) which operate on the Partitions they are assigned to.

In the Table below, Code 1 is a Main User Code assigned to Partitions 1, 3 and 4. Therefore, it can program its own PIN (Code 1) and the PINs of: User Code 3 (assigned to Partitions 1 and 3), User Code 4 (assigned to Partition 4), User Code 5 (assigned to Partitions 3 and 4) and User Code 7 (assigned to Partition 3).

Code Number	Code Type	Assigned Partitions
Code 1	Main User	1 - 3 - 4
Code 2	Main User	2 - 3
Code 3	User	1 - 3
Code 4	User	4
Code 5	User	3 - 4
Code 6	Patrol	2
Code 7	Duress	3
Code 8	User	2 - 3

Code 2 is a Main User Code assigned to Partitions 2 and 3. Therefore, it can program its own PIN, and the PINs of: Code 6 (assigned to Partition 2), User Code 7 (assigned to Partition 3), User Code 8 (assigned to Partitions 2 and 3).

Accepted Keypads

You can program the system from **LCD Keypads** or, for **KYO4-8 ONLY**, from **LED Keypads** (Classika and Premium LED).

Enrolling an LCD Keypad at Address 08

To enrol an LCD Keypad at Address **08** from a LED Keypad, enter:

<Installer Code> + **ON**

A short beep will indicate that the LCD Keypad has been enrolled.

NOTE - You must enrol the LCD Keypad at Address 8 (using DIP switches [51]), before completing the connection (refer to Table 2.1 or 2.2 in the INSTALLATION MANUAL).

The following procedure will allow you to change the Kyo Control panel parameters when:

- The Programming Software is not available.
- A system, previously programmed via an LCD Keypad, must be reprogrammed via an LED Keypad.
- The system is equipped with LED Keypads only.

Before ending the Programming session, you must DISABLE the Keypad at Address 8 or re-enable the LED Keypad (refer to the “Keypads” paragraph in this section).

Adjusting Brightness, Contrast and Volume

To adjust the brightness, the contrast and the volume of the internal buzzer, follow the procedure described below:

BRIGHTNESS

It is possible to adjust the brightness of the keys and, on the LCD version only, also the brightness of the backlighting of the display. It is possible to adjust the inactive and the active brightness (the inactive brightness is the brightness to which the keypad reverts after 10 seconds of inactivity).

To adjust the active brightness, follow the procedure described below:

- 1a) To increase the brightness, press and keep pressed key **A** until the desired level is obtained:
- 1b) To lower the brightness, press and keep pressed key **B** until the desired level is obtained:
- 2) Press the **OFF** key to adjust the inactive brightness:
 - 3a) To increase the brightness, press and hold down key **A** until the desired brightness is reached:

- 3b) To reduce the brightness, press and hold down key **B** until the desired brightness is reached:
- 4) Press the **ON** key to adjust the active brightness and return to step 1a), or press the **ENTER** key to confirm the chosen levels, or wait a few seconds for the keypad to return to the inactive state.

CONTRAST (only for the LCD version)

To adjust the contrast of the LCD display, follow the procedure described below:

- 1a) To increase the contrast, press and keep pressed key **D** until the desired level is obtained.
- 1b) To lower the contrast, press and keep pressed key **C** until the desired level is obtained.
- 2) To confirm the chosen level, press the **ENTER** key (or wait a few seconds for the keypad to return to the inactive state).

VOLUME

To adjust the volume of the internal buzzer, follow the procedure described below:

- 1) Press and keep pressed the **ESC** key; the internal buzzer will start sounding a series of beeps in such manner that the operator could hear the sound level in real time.

NOTE - The buzzer will still emit a series of sound alerts at extremely low volume, even if it has been set to zero.

- 2a) To increase the volume, press key **A** for a number of times and/or keep it pressed until the desired level is obtained:
- 2b) To lower the volume, press più volte and/or keep pressed key **B** until the desired level is obtained.
- 3) To confirm the chosen level, press the **ENTER** key (or wait a few seconds for the keypad to return to the inactive state).

The Liquid Crystal Display (LCD)

During **Standby status** the display will show:

1st line: Date and Time

2nd line: Partition status (4 or 8 Partitions depending on the system). This line will also show:

- **Trouble and Tamper** — ✕ will be shown above the respective icon;
- **Special Functions** — * will be shown above the respective icon (⚡ or 📞);
- **Telephone Line status** — 📞 will be shown above the 📞 icon.

In the example in Figure 1, Partition 3 is armed, the 24h Tamper line is in Alarm status, Teleservice is enabled and the Telephone line is busy.

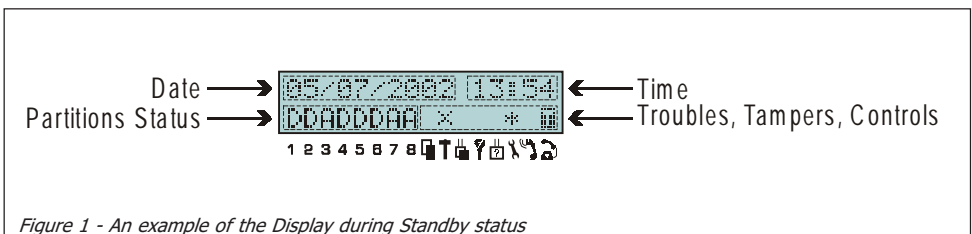


Figure 1 - An example of the Display during Standby status

PROGRAMMING FROM THE LCD KEYPAD

Customizing the System

Installer Menu Options The Installer’s Code will allow you to access the **INSTALLER MENU** and program the following options:

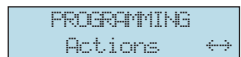
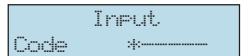
- Actions (*Event Logger, Zones Status, Test Siren, Clear Call Queue*)
- Zones
- Outputs
- Times (*Entry/Exit Times*)
- Inst.Cod (*Installer Code*)
- Keys (*Key/Card and Wireless*)
- Codes (*User Codes*)
- Readers (*Key/Card Readers*)
- Keypads (*Keypads and Language*)
- Date/T. (*Date and Time*)
- Timers (*Scheduler*)
- Teleph. (*Telephone numbers*)
- Teleser. (*Teleservice*)
- Test Ev. (*Test Call*)
- Events
- Options
- Strings (*Descriptions*)
- Default (*Restore Factory Default*)
- Exp. IN (*Expander IN*) — *ONLY Series 32 Models*
- Exp. OUT (*Expander OUT*) — *ONLY on Series 32 Models*

All Partitions must be disarmed before starting the programming session.

Accessing the Installer Menu **If the system operates with LED Keypads only** — before starting the Programming session, enrol an LCD Keypad at Address 8 (refer to **“Enrolling an LCD Keypad at address 8”**).

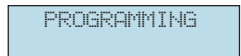
To start the Programming session:


1. From Standby status, enter the Installer code (0025 at Default), then press **ENTER**.
2. Select the required option from the **PROGRAMMING** Menu.

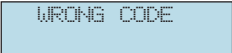


Once PROGRAMMING has been accessed, the Control panel will:


- a) lock all Keypads, except for the one in use; The locked Keypads will show the “PROGRAMMING” message, and all the indicators (🔴, 🔴 and 🔴) will turn OFF.



- b) clear the alarm memory;
- c) force all the outputs (Alarm and Open Collector) to standby status;
- d) stop the event evaluation;
- e) *if necessary* — interrupt the ongoing call, and put the Call queue on hold;
- f) activate the  light (slow blink) on LED Keypads.



Wrong Code *If you enter a Wrong Code the display will show an error message, and go back to Standby status.*



Exiting Programming

To exit Programming:


1. Press **ESC** (as many times as necessary) to step back;
2. Press **ENTER** when the ‘Sure?’ prompt is shown.

If, at this point, you decide not to exit the menu, press **ESC** to continue.

When you exit the PROGRAMMING Menu the Control panel will:

- a) restore all other Keypads to Standby status;
- b) restore to Standby status or, if necessary, restart the call queue from the interrupted call.

NOTE: Interrupted Teleservice calls will not be restarted.

- c) turn off the  light on the LED Keypads.

Programming

NOTE: The examples in this section refer to the Kyo32 display (8 Partition Control panel). Therefore, if you are using another type of Control panel, the display messages/prompts may be slightly different.

ESC and ENTER Use the **ESC** key to step back at any point on the Installer Menu.

Use the **ENTER** key to confirm entered data.


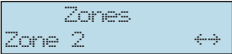
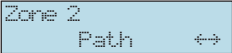
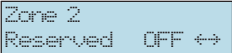

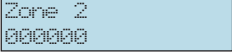
Actions

This option provides a further 4 sub-options:

- a) **Test Siren** — this option will allow you to Test the Alarm Output relay.
- b) **Zones Status** — this option will allow you to **Bypass/Unbypass zones**.
- c) **View Logger** — this option will allow you to view the events in the Logger.
- d) **Clear Call Queue** — this option will allow you to interrupt ongoing calls and stop the call queue.



You can find a full description of this options under ‘**Operating from a Keypad**’ in the ‘USER MANUAL’.

Zones

1. From the Installer Menu, using **C** or **D**, select the **Zones** option, then press **ENTER**.

- Selecting the Zone 2. Using **C** or **D**, select the **Zone**, then press **ENTER**.

- Type 3. Using **C** or **D**, select the **Type**, then press **ENTER**.

- Attribute 4. Using **C** or **D**, select the required **Attribute**.
Press **ON** to Enable, or **OFF** to Disable the selected Attribute, then press **ENTER** to continue.

- Wireless If you select the **Wireless** attribute (available ONLY on **Kyo8W** and **Kyo32** Models), work carefully through steps **5a**, **5b** and **5c**, otherwise, go to step **6**.

- 5a. Using the number keys, enter the **ESN** of the Wireless device.

 - Use **A** or **B** to move along the row.
 - Use **ON** or **OFF** to enter letters **A** through **F**.

NOTE - If you are changing a Wireless zone back to operating as Hardwired, you must zero (000000) the ESN of the zone device .


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

- Supervisory 5b. Enable or Disable the **Supervisory** attribute.
Press **ENTER** to continue.

- Placement Test 5c. Carry out the **Placement Test** (create a Tamper condition — refer to the Wireless Device instructions sheet) to verify that the wireless device is within range of the VRX32-433 or Vector/RX8.


One of the following values will be shown on the display:

 - **Bad!**
 - **Fair!**
 - **Good!**

DO NOT mount Wireless devices in placements that give **Bad!** results. Placements can be considered suitable after 3 consecutive **Fair!** or **Good!** results.



To repeat the Placement Test, press **ESC** and repeat steps **5b** and **5c**.

▲ No wireless device should be mounted without first performing a Placement Test.

Press **ENTER** to go to step **6**.

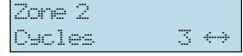
6. Using **C** or **D**, select the **Balance** type, then press **ENTER**.

NOTE: If you assign the ‘Vibration’ or ‘Roller Blind’ attribute, you must select one of the following Balance types:



- **BAL** - Balance 1k5 (Balance using 1.5 Kohm resistor)
- **NC** - Normally Closed

Alarm Cycles 7. Using **C** or **D**, select the number of Alarm Cycles: 0 through 14.



If a continuous cycle is required, select ‘RP’ (Repetitive), then press **ENTER** to continue.



Assigning Partitions 8. Using keys **1** to **8** (toggle keys), assign the Zone to the Partitions:



- ⊗ = the Zone assigned
- = the Zone is not assigned

Press **ENTER** to continue.

Sensitivity (Valid only Vibration or Roller Blind) 9. Using **C** or **D**, select the required Sensitivity (1 through 20). This parameter is for ‘Vibration’ and ‘Roller Blind’ Zones only.



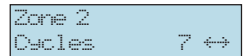
DO NOT program this parameter for other Zone Types.

Refer to Table 3 for other parameters relevant to Zones with the ‘Roller Blind’ attribute.

Example: for 3 PULSES and 4 MINUTES, you must set a value of 13.

Table 3 - PULSE/TIME for the 'Roller Blind' attribute		
Sensitivity	PULSE	TIME
1 ... 5	1 ... 5	30 seconds
6 ... 10	1 ... 5	2 minutes
11 ... 15	1 ... 5	4 minutes
16 ... 20	1 ... 5	Repetitive

Cycle (Vibration) 10. For Zones with the ‘Vibration’ attribute — using **C** or **D**, select the value of the Low Shock Sensitivity or Cycles (0 through 7). Press **ENTER** to confirm and go back to step 2.



Outputs

1. From the Installer Menu, using **C** or **D**, select the **Outputs** option, then press **ENTER**.

```
PROGRAMMING
  Outputs  ↔
```

2. Using **C** or **D**, select the **Output**, then press **ENTER**.

```
  Outputs
Output 2  ↔
```

3. Using **C** or **D**, select the required signal type (**Signals**, **ON Time**, **OFF Time**, **Part.**), then press **ENTER**. In accordance with the selected signal type, work through the steps of the respective procedure.

```
Uscita 2
  Signals  ↔
```

Signals 4a. Using **C** or **D**, select the required signal: press **ON** to Enable, or **OFF** to Disable the signal on the **Output**.

```
Output 2
Armed    OFF ↔
```

*To program an **Output** as 'Normally Open', select **N. O.**, then press **ON**.*

```
Output 2
N.O.     ON  ↔
```

*To program an **Output** as 'Normally Closed', select **N. O.**, then press **OFF**.*

*Refer to the “**Outputs page**” section in the “**INSTALLATION MANUAL**” for the **Signals** list.*

5a. Press **ENTER** to confirm the setting, or **ESC** to quit and go back to step 3 (in both cases).

ON Time 4b. Enter the respective value. Accepted values: 0 through 250 (use **C** or **D** to move along row).

```
Output 2
035     Seconds
```

5b. Press **ENTER** to confirm the setting, or **ESC** to quit and go back to step 3 (in both cases).

OFF Time 4c. Enter the respective value. Accepted values: 0 through 250 (use **C** or **D** to move along row).

```
Output 2
070     Seconds
```

5c. Press **ENTER** to confirm the setting, or **ESC** to quit and go back to step 3 (in both cases).

Enabling Outputs on Partitions 4d. Using keys **1** to **8** (toggle keys), enable the Output on the respective Partitions:

```
Output 2
x-----x  Part.
1 2 3 4 5 6 7 8
```

☒ = enabled

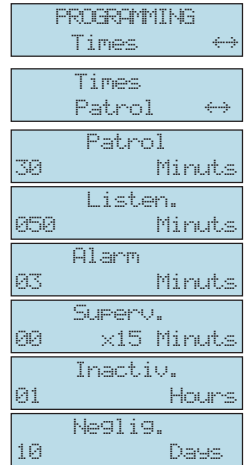
☐ = disabled

In the example, Output 2 is a Normally Closed Output enabled on Partitions 1 and 8.

5d. Press **ENTER** to confirm the setting, or **ESC** to quit and go back to step 3 (in both cases).

Times

- Setting the Times:
- From the Installer menu, using **C** or **D**, select the **Patrol Times** option, then press **ENTER**.
 - Using **C** or **D**, select the required option, then press **ENTER**.
 - If you select:
 - Patrol Listen.**
 - Alarm Inactiv.**
 - Neglig.**
 - Superv.**



Superv. (for *Kyo32* and *Kyo8W* Models)

set the required Time, in accordance with the value shown on the display, then press **ENTER** to confirm the setting, or **ESC** to quit and go back to step 2 (in both cases).

The Accepted values can be found in Table 9 under “Programming from a LED Keypad”.

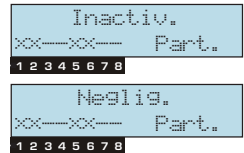
NOTE: This value is in steps of 15 minutes (0 through 96: 10 = 150 minutes). A **Supervisory** Time of 8 = 120 minutes is strongly advised.

- Assigning **Inactiv./Neglig.** Times to Partitions
- Using keys **1** to **8** (toggle keys), assign the **Inactiv.** and **Neglig.** Times to the respective Partitions:

✖ = assigned

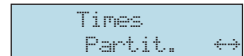
— = not assigned

Press **ENTER** to confirm the setting, and go back to step 3a.

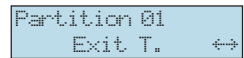
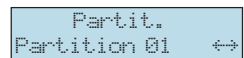


*If you selected the **Partit.** option at step 2, work carefully through the following procedure.*

- Programming the Partition Times:
- Using **C** or **D**, select the required Partition, then press **ENTER** to confirm the setting, or **ESC** to quit and go back to step 2.



- Using **C** or **D**, select the required option (for example, **Exit T.**), then press **ENTER**.
- Enter the Time value, then press **ENTER** (use **A** or **B** to move along the line).



- The ‘**Entry**’ and ‘**Exit**’ Times are in **SECONDS** (0 - 250)

- The **Auto-Arm Timeout** is in **MINUTES** (0 - 63)

- The ‘**And Zone**’ time is in **SECONDES** (0 - 945). Insert a value 0 to 63 max: the input value must be multiplied for 15.

example 1: input 4 x 15 = 60 seconds

example 2: input 63 x 15 = 945 seconds

6b. Repeat the procedure from step **4b**, to program the other Time values for the selected Partition.

Press **ENTER** to confirm the setting, or **ESC** to quit and go back to step **3b** to continue.

*If you selected the **2PuZones** option at step 2, work carefully through the following procedure.*

Programming
Double pulse

3c. Using **C** or **D**, select the required Zone, then press **ENTER** to confirm the setting, or **ESC** to quit and go back to step **2**.

```

Times
2PuZones  ↔
    
```

4c. Enter the required value (0 through 250), then press **ENTER** (use **C** or **D** to move along the line).

```

2PuZones
Zone 01    ↔
    
```

■ *The **2PuZones** Time is in **SECONDS**.*

5c. Press **ENTER** to confirm the setting, or **ESC** to quit and go back to step **3c** (in both cases).

```

2PuZone
030      Seconds
    
```

Installer Code

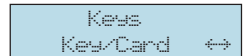
1. From the Installer Menu, using **C** or **D**, select the **Inst. Cod** option, then press **ENTER**.
2. Enter the **New Installer Code** (4 to 6 digits) then press **ENTER** to confirm and go back to step 1.



NOTE: The New Installer Code will not be valid until you exit the menu.

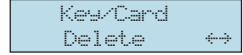
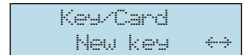
Keys

1. From the Installer Menu, using **C** or **D**, select the **Keys** option, then press **ENTER**.
2. Using **C** or **D**, select either the **'Keys/Cards'** or **'Wireless'** option (ONLY **Series 32** and **8W** models provide the **'Wireless'** option), then press **ENTER** and follow the relevant instructions.

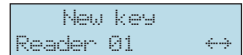


■ **Key/Card option (if selected at step 2.)**

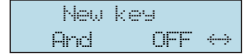
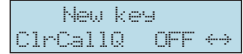
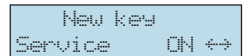
3.
 - To enrol a New Key or Card, select **New key** then press **ENTER** (Go to step 4a).
 - To Modify a Key or Card, select **Modify** then press **ENTER** (Go to step 4b).
 - To Delete a New Key or Card, select **Delete** then press **ENTER** (Go to step 4c).



- 4a. Using **C** or **D** select the **Reader** where the Key/Card is to be enrolled, then press **ENTER**.

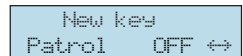


- 5a. Using **C** or **D**, select the **Service, ClrCallQ, And** or **Patrol** attribute. Enable (**ON**) or disable (**OFF**) the attribute, as required, then press **ENTER**.



For further details, refer to the 'Key/Card Page' section in the INSTALLATION MANUAL.

- 6a. Using keys **1** to **8** (toggle keys), assign the **New Key/Card** to the Partitions.

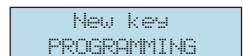


☒ = assigned

☐ = not assigned



- 7a. After assigning the Key/Card to the Partitions, press **ENTER**, the display will show the **'PROGRAMMING'** prompt (see right).



- 8a. Hold the Card near the sensitive field of the Reader (programmed at step 4a.). Key/Card Enrollment will be confirmed by:

- a) a long beep
- b) by an acceptance message which indicates the ID number (e.g. **009**)
- c) by fast blinking on all 3 Reader LEDs

```
New key 009
PROGRAMMING
```

9a. Using **ESC**, go back to step 3.

If the system does not Enrol the Key/Card (due to fault or system limitations – 128 keys) the Keypad will emit an audible error signal.

4b. Enter the Key/Card ID Number (e.g. 003) or, using **A** or **B**, select the required Key/Card ID Number, then press **ENTER**.

```
←→ Modify 003
Key/Card 3
```

5b. Using **C** or **D**, select the **Service, ClrCallQ, And** or **Patrol** attribut. Enable (**ON**) or Disable (**OFF**) the attribute, as required, then press **ENTER**.

```
Modify
Service ON ←→
```

For further details, refer to the 'Key/Card Page' section in the INSTALLATION MANUAL.

6b. Using keys **1** to **8** (toggle keys), assign the **Key/Card** to the Partitions.

```
Modify
x—x—x Part.
1 2 3 4 5 6 7 8
```

- ⊗ = assigned
- = **not** assigned

7b. Press **ENTER** to confirm, and go back to step 4b.

4c. Enter the Key/Card ID Number (e.g. 005) or, using **A** or **B**, select the required Key/Card ID Number, then press **ENTER**.

```
←→ Delete 005
Key/Card 5
```

5c. When the '**Sure?**' prompt is shown, you can either press **ENTER**, to confirm deletion and go back to step 4c, or press **ESC**, to go back to step 4c, without deleting the Key/Card.

```
Delete
Sure ?
```

The keypad will emit an audible signal (long beep) to indicate that the Key/Card has been deleted.

■ **Wireless option (if selected at step 2.)**

3. Using **C** or **D**, select the Wireless key then press **ENTER**.

```
Wireless
1 000000 ←→
```

4. Enter the ESN then press **ENTER**.

```
Wireless
000000
```

- Use **ON** or **OFF** to enter letters.
- Use **A** or **B** to move along the row.

5. Using **C** or **D**, select either User Code 23 or 24 for the Wireless key, then press **ENTER** to go back to step 3.

```
Wireless
User Code 23 ←→
```

Codes

1. From the Installer Menu, using **C** or **D**, select the **Codes** option, then press **ENTER**.

PROGRAMMING
Codes ↔
 - Code Number 2. Using **C** or **D**, select the **Code Number** (1 through 24), then press **ENTER**.

Codes
User Code 5 ↔
 - Code Type 3. Using **C** or **D**, select the **Code Type** (**Inactive**, **Main User**, **User**, **Duress**, **Patrol** or **DTMF**), then press **ENTER**.

User Code 5
User ↔
 - Code Options 4. Using **ON** or **OFF**, Enable or Disable the **‘ClrCallQ’** or **‘And’** option, then press **ENTER**.

User Code 5
ClrCallQ OFF
 5. Using **C** or **D**, select the Arming Mode (**Part.**, **A Mode** or **B Mode**), then press **ENTER**.

User Code 5
Part. ↔
- NOTE: If you select **Part.** (Arm Enabled Partitions), go to step 6.*
- If you select **A** or **B Mode**, go to step 6a.*
6. Using keys **1** to **8** (toggle keys), assign the **Code** on the Partitions.

Part.
xxx----- Part.
1 2 3 4 5 6 7 8

 - ☒ = assigned
 - = **not** assigned
 7. Press **ENTER** to confirm and go back to step 5.

*In the example, **Code 5** has been programmed as a **User Code**, enabled to **Arm Partitions 1, 2 and 4**.*


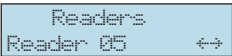
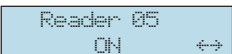


- Programming the Arming configurations: **A and B Mode**
- 6a. Using keys **1** to **8**, program the Arming configuration for the Code, then press **ENTER** to confirm and go back to step 2. Each time you press the Partition number key (1 to 8) the display will show a letter (D, A, S, I or N) which represents an Arming option.

User Code 5
A Mode ↔
- Arming options: **D, A, S, I, N**
- D** = **Disarm** (the Control panel **will monitor only** the 24h zones of the Partition)

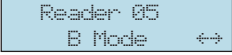

A Mode
DANINNN Part.
1 2 3 4 5 6 7 8
 - A** = **Away Mode** (the Control panel **will monitor all** the zones of the Partition)
 - S** = **Stay Mode** (the Control panel **will not monitor** the Partition zones with the Stay attribute)
 - I** = **Instant** (the Control panel **will not monitor** the Partition zones with the Stay attribute, and will **remove the Partition entry delay**)
 - N** = **No Change** (the Control panel will not change the Partition status).
- NOTE:** If the User Code has not been assigned to any of the Partitions, this programming field will be inactive (refer to step 6).

*In the example, the **A Mode** Arming Configuration for **User Code 5** is as follows: **Partition 1** = Disarm, **Partition 2** = Away Mode, **Partition 4** = Instant (Stay Mode 0 Delay), **Partitions 3, 5, 6, 7, 8** = No change.*

Readers

- | | |
|--|--|
| <p>1. From the Installer Menu, using C or D, select the Readers option, then press ENTER.</p> |  |
| <p>Selecting the Reader 2. Using C or D select the Reader (1 through 16), then press ENTER.</p> |  |
| <p>Enabling the Reader 3. Using C or D Enable (ON) or Disable (OFF) the Reader, then press ENTER.</p> |  |
| <p>Arming Mode: 4. Using C or D, select Arming Mode (Part., A Part., A or B Mode), then press ENTER.</p> |  |
- NOTE: If you select **Part.** (Arm Enabled Partitions), go to step 5. If you select **A** or **B Mode**, go to step 5a.*
- | | |
|--|--|
| <p>Assigning the Reader to Partitions 5. Using keys 1 to 8 (toggle keys), assign the Reader to the Partitions.</p> <p style="margin-left: 40px;">☒ = assigned</p> <p style="margin-left: 40px;">☐ = not assigned</p> |  |
|--|--|
6. Press **ENTER** to confirm and go back to step 4.

*In the example, **Reader 05** has been programmed to Arm the system in **Part. Mode** (Arm Enabled Partitions), and assigned to Partitions **3** and **4***

- | | |
|--|--|
| <p>Programming the Arming configurations: 5a. Using keys 1 to 8, setup the Arming configuration, then press ENTER to confirm and go back to step 2.</p> |  |
|--|--|
- Each time you press the Partition number key, the display will scroll a series of letters (D, A, S, I or N), with the following meaning:
- | | |
|--|--|
| <p>Arming option: D, A, S, I, N</p> |  |
|--|--|
- D** = **Disarm** (the Control panel **will monitor only** the 24h zones of the Partition)
- A** = **Away Mode** (the Control panel **will monitor all** the zones of the Partition)
- S** = **Stay Mode** (the Control panel **will not monitor** the Partition zones with the Stay attribute)
- I** = **Instant** (the Control panel **will not monitor** the Partition zones with the Stay attribute, and will eliminate the Partition entry delay)
- N** = **No Change** (the Control panel will not change the Partition status).
- NOTE:** If the Reader has not been assigned to any of the Partitions, this programming field will be inactive (refer to step 5).

*In the example, the **B Mode** Arming configuration for **Reader 05** is as follows: **Partitions 1, 2, 5, 6, 7 and 8** = Not Enabled, **Partition 3** = Away Mode, **Partition 4** = Disarm.*

Keypads

If you are using a Control panel from the Kyo32 and Kyo8W Series, the application will present two sub-menus: “Program” and “Language”. In all other models you will access the “Keypad Programming” phase directly.

Selecting the Keypad

1. From the Installer Menu, using **C** or **D**, select the **Keypads** option, then press **ENTER**.

```
PROGRAMMING
Keypads  ←→
```

2. Using **C** or **D**, select the required option (‘**Program**’ or ‘**Language**’), then press **ENTER** and work carefully through the relevant instructions.

```
Keypads
Program
```

```
Keypads
Language
```

■ Program option

3a. Using **C** or **D**, select the Keypad (1 to 8), then press **ENTER**.

```
Program
Keypad 03  ←→
```

4a. Using **C** or **D**, select the Keypad **Type** (select ‘**None**’ for NO KEYPAD), then press **ENTER**.

```
Keypad 03
LCD Keyp.  ←→
```

5a. Using keys **1** to **8** (toggle keys), assign the **Keypad** to the Partitions.

```
Keypad 03
x-----x-----
1 2 3 4 5 6 7 8
```

☒ = assigned

--- = **not** assigned

6a. Press **ENTER** to confirm and go back to step 3a.

In the example, **Keypad 03 (LCD Keypad)** is assigned to Partitions **1** and **5**.

■ Language option (Kyo32 and Kyo8W Series only)

Selecting the Language

3b. Press the key which corresponds to the required language (in brackets e.g. <ENG>).

```
1: ITA  <2: ENG>
3: ESP  4: FRA
```

4b. Press **ENTER** or **ESC** to confirm. The selected language will be operative immediately. The system will go back to step 2.

Date/Time

1. From the Installer Menu, using **C** or **D**, select the **Date/T.** option, then press **ENTER**.
2. Using **C** or **D**, select the Day, Month, Year, Hour or Minutes field.
Use **A** or **B** change the values as required.
Press **ENTER** to confirm and go to next step.
3. Using **1**, **2** or **3**, select the Date format (**D**=Day, **M**=Month, **Y**=Year). The selected format will be shown in brackets (< >).
4. Press **ENTER** to confirm and go back to step 1.

```
PROGRAMMING
Date/T. ↔
```

```
Date/Time ↑↓↔
01/11/2002 12:55
```

```
1 2 3
<DMY> MDY YMD
```

▲ Remember to put the Clock forward or back an hour for the Summer Time changeover.

Timers

1. From the Installer Menu, using **C** or **D**, select the **Timers** option, then press **ENTER**.
2. Using **C** or **D**, select the Partition, then press **ENTER**.
3. Using **C** or **D**, select the **Day**. Using **ON** or **OFF**, Enable or Disable the Partition (All Days are **OFF** at Default), then press **ENTER**.
4. Using **A** or **B**, select the Hour or Minutes. Using **C** or **D**, select the value (max **23:59**), then press **ENTER** to confirm and go to step 2.

```
PROGRAMMING
Timers ↔
```

```
Timers
Partition 02 ↔
```

```
Partition 2
WED ON ↔
```

```
Partition 2
WED 10:35
```

*In the example, Partition 2 will Arm every **Wednesday** at **10:35**.*

NOTE: The 'En/Dis. Auto-Arm' must be enabled, otherwise, the programmed Auto-Arming schedule will be ignored.

Telephone

1. From the Installer Menu, using **C** or **D**, select the **Teleph.** option, then press **ENTER**.
2. Using **C** or **D**, select the Telephone Number ID number (1 to 8), then press **ENTER**.
3. Using **C** or **D**, select the **Telephone Number Type**, then press **ENTER**.
4. Using keys **1** to **8** (toggle keys), assign the **Telephone Number** to the Partitions, then press **ENTER**.

```
PROGRAMMING
Teleph.  ↔
```

```
Teleph.
Number 3  ↔
```

```
Number 3
Voice  ↔
```

```
Number 3
xxxxxxxx Part.
1 2 3 4 5 6 7 8
```

☒ = assigned

☐ = **not** assigned

***NOTE** - The Telephone Numbers must be assigned to the Partitions, otherwise, the User will be unable to program Voice Telephone Numbers (refer to the USER MANUAL).*

5. Enter the **Telephone number**.

```
Number 3
0731667890_____
```

Use **A** or **B**, to move along the row.

Use **ON** and **OFF** for the following punctuation marks and pauses (to be entered in the space indicated by the cursor):

- a) “,” — use the comma to insert 2 second dialling pauses;
- b) “_” — use the dash to clear telephone number digits;
- c) * and #.

6. Once the Telephone number has been completed, press **ENTER** to confirm and go back to step 2.

*If, at step 3, you selected a **Telephone Number Type** which operates with a protocol (reporting format), work carefully through the following steps.*

- Type:
Contact ID
CESA
10-1400
14 bps
20 bps
40 bps
10-1600
7. Enter the **Customer Code** (minimum 4 digits for all reporting formats except CESA, that requires 5 digits), then press **ENTER**.
 8. Using **C** or **D**, select either the **Listen.** or **2-way** option then, using **ON** or **OFF**, Enable or Disable these options, as required.

```
Number 3
_____ Customer
```

Use **A** or **B** to move along the row.

Use **ON** or **OFF** to enter letters A through F.

```
Number 3
Listen.  OFF ↔
```

```
Number 3
2-way   ON  ↔
```

9. Press **ENTER** to confirm and go back to step 1.

Teleservice

1. From the Installer Menu, using **C** or **D**, select the **Teleser.** option, then press **ENTER**.
2. Using **C** or **D**, select the **Rings** option, then press **ENTER**.
3. Using **C** or **D**, select the number of rings (0 through 19), then press **ENTER**.
4. Using **C** or **D**, select the **Number** option, then press **ENTER**.
5. Using **C** or **D**, select the **Telephone number** (1 through 8) for **Teleservice**.
6. Press **ENTER** to confirm and go back to step 4.

```
PROGRAMMING
Teleser.  ↔
```

```
Teleser.
Rings    ↔
```

```
Rings
  4      ↔
```

```
Teleser.
Number   ↔
```

```
Number
Number 7
```

In the example, Telephone number 7 has been assigned to the Teleservice call, which will be answered after 4 rings.

Test Ev.

1. From the Installer Menu, using **C** or **D**, select the **Test Ev.**, then press **ENTER**.
2. Using **C** or **D**, select the Day, Month, Year and Time values. Use **A** or **B** to move along the row.
3. Once the programming field has been completed, press **ENTER**.
4. Enter the **Interval** (in hours) between Test events. Use **A** or **B** to move along the row.
5. Press **ENTER** to confirm and go back to step 1.

```
PROGRAMMING
Test Ev.  ↔
```

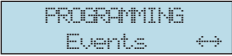
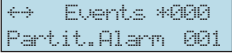
```
Date/Time  ↕↔
25/09/2002 10:30
```

```
Interval
0720
```




*In the example, the first **Test** will be carried out on the 25/09/2002 at 10:30. Successive Tests will be carried out every 30 days (**Interval** = 720 hours).*

To disable the Test event, enter **0000**.

Events

- Priority Event
- From the Installer Menu, using **C** or **D**, select the **Events** option, then press **ENTER**.
 
 - Using **A** or **B** select the **Event**, then press **ENTER**. This programming field will allow you to enter the Event number directly. An asterisk (*) next to the Event number (see right) means the Event has been programmed as a **Priority Event** (refer to 'Events Page' in the 'INSTALLATION MANUAL').
 

For the complete list of Events, refer to the 'Events Page' section in the 'INSTALLATION MANUAL'.

- Enter the Event Code, then press **ENTER**.
Use **ON** or **OFF** to enter letters A through F.
 
- Using **C** or **D**, select the ID number (1 to 8) of the Voice Message which will be associated with the Event, then press **ENTER**.
 
- Using keys **1** to **8** (toggle keys), assign the **Telephone number** to the Events.
 
 - ☒ = assigned
 - ☐ = not assigned
- Press **ENTER** to confirm and go back to step 2., the display will show the next Event on the list.

*In the example, Event Code **21** has been assigned to Event **000** (Alarm Partition 01). Message number **4** will be sent to Telephone numbers **3, 4** and **8** when the Event occurs.*

Options

1. From the Installer menu, using **C** or **D**, select **Options**, then press **ENTER**.
2. Using **C** or **D**, select the required **Option** number, using **ON** or **OFF**, Enable or Disable the **Option** as required.

A rectangular LCD screen with a light blue background. The text 'PROGRAMMING' is at the top, and 'Options <=>' is below it.

A rectangular LCD screen with a light blue background. The text 'Options' is at the top, '0' is on the left, and 'OFF <=>' is on the right.

*For the complete list of **Options**, refer to the '**Options Page**' in the **INSTALLATION MANUAL**.*

3. When all the Options have been programmed, press **ENTER**.
4. Using keys **1** to **8** (toggle keys), Enable/Disable the **Auto Reset Memory** option on the Partitions.
 - ☒ = Enabled,
 - ☐ = Disabled
5. Press **ENTER** to confirm and go back to step 1.

A rectangular LCD screen with a light blue background. The text 'Autores.' is at the top, 'x-----x Part.' is below it. Below the screen is a numeric keypad with keys 1 through 8.

*In the example, the **Auto-Reset Memory** option is enabled on Partitions **1** and **8**.*

Enabling VRX32-433 and Vector/RX8 Receiver

Once the Wireless Receiver (**option number 3**) has been enabled, you must exit then re-access the Installer Menu. This procedure will allow the Control panel to activate and setup the Wireless Receiver properly. If you do not follow this procedure, the Control panel will not allow you to program the Wireless Zones, Wireless Keys and other Wireless Receiver options.

Strings

This option will allow you to customize the descriptions of the system peripherals, etc.

1. From the Installer Menu, select the **Strings** option, then press **ENTER**.
2. Using **C** or **D**, select the relevant **String** (refer to **Table 4**), then press **ENTER**.
3. Enter the label (maximum 16 letters).
 - Use **C** or **D** to enter the letters.
 - Use **A** or **B** to move along the row.

```
PROGRAMMING
Strings  ←→
```

```
Strings
Partition 02 ←→
```

```
Partition 02
Main Door
```

In the example, the 'Partition 02' String (label) has been programmed as 'Main Door'.

Table 4 - Programmable Strings

Factory Default	Type	Note
Partition 01 ... Partition 08	Partitions	Up to 4 Partitions for KYO4 and KYO8 Series Up to 8 Partitions for KYO32 and KYO32G
Keypad 01 ... Keypad 08	Keypads	—
Reader 01 ... Reader 16	Readers	—
Exp. In 1 ... Exp. In 4	Input Expanders	Only for KYO32 Series
Exp. Out 1 ... Exp. Out 2	Output Expanders	Only for KYO32 Series
Zone 1 ... Zone 32	Zones	Up to 4 Zones for KYO4 Up to 8 Zones for KYO8 Series Up to 32 Zones for KYO32 Series
User Code 1 ... User Code 24	Codes	—
Key/Card 1 ... Key/Card 16	Key/Card	—
Output 1 ... Output 16	Outputs	Up to 3 Outputs for KYO4 and KYO8 Series Up to 5 Outputs for KYO8W and KYO8G Up to 14 Outputs for KYO32 Up to 16 Outputs for KYO32G
Tel. Numb. 1 ... Tel. Numb. 8	Telephone numbers	—

Default

▲ - *The default option will allow you to reset the Control panel to Factory Default, and delete the Events List.*

1. From the Installer Menu, select the **Default** option, then press **ENTER**.

```
PROGRAMMING
Default  ↔
```

2. Using **C** or **D**, select the data to be deleted:

- **All** ⇒ Restores the Control panel to Factory Default, and deletes the Events Program List.

```
Default
All     ↔
```

*NOTE - The **Strings** will not be restored to default (refer to 'Strings' on the previous page).*

- **Ev.Cod.** ⇒ Restores all the Event Codes to ContactID. If a ContactID Telephone number exists, all Events will be assigned to it.

```
Default
Ev.Cod. ↔
```

- **Ev.Cod=0** ⇒ Restores all the Event Codes, therefore, the Events will be unable to generate Telemonitoring calls.

```
Default
Ev.Cod=0 ↔
```

- **Receiver** ⇒ Restores all the Wireless Receiver values to Factory Default. This operation will delete all the ESNs and Wireless keys (*for Series 8W and 32 Models ONLY*).

```
Default
Receiver
```

3. Press **ENTER**, to restore Factory Default, or **ESC** to quit without changing the current data.

```
Default
Sure ?
```

▲ *Restoral of the Factory Default settings will lock the Control panel for several seconds.*

After **All**, **Ev.Cod.** or **Ev.Cod=0** Factory Default restoral, the Control panel will exit the programming phase automatically.

After **Receiver** Factory Default restoral, the Control panel will go back to step 1.

Input Expanders

This option is available on **Series 32** Models, and will allow you to program the Input Expanders.

1. From the Installer Menu, using **C** or **D**, select 'Esp. IN' then press **ENTER**.
2. Using **C** or **D**, select the required Input Expander then press **ENTER**.

```
PROGRAMMING
Exp. IN  ↔
```

```
Exp. IN
Expander In 1  ↔
```

Up to 4 Input Expanders can be enabled (6 zones per Expander).

3. Using **C** or **D**, enable or disable the Input Expander as required.
4. Press **ENTER** to go back to step 2 to program another Input Expander.

```
Expander In 1
OFF  ↔
```

Output Expanders

This option is available on **Series 32** Models, and will allow you to program the Output Expanders.

1. From the Installer Menu, using **C** or **D**, select 'Esp. OUT' then press **ENTER**.
2. Using **C** or **D**, select the required Output Expander then press **ENTER**.

```
PROGRAMMING
Exp. OUT  ↔
```

```
Exp. OUT
Expander Out 1  ↔
```

1 or 2 Output Expanders can be enabled (6 outputs per Expander).

3. Using **C** or **D**, enable or disable the Output Expander as required.
4. Press **ENTER** to go back to step 2 to program another Output Expander.

```
Expander Out 1
OFF  ↔
```

Programming from the LED Keypad

Accessing Programming

Only the following models from the Kyo range can be programmed via LED Keypad:

KYO 4M
KYO 4P
KYO 8M
KYO 8P





All Partitions must be Disarmed before starting the programming session.

1. From Standby status, enter the Installer code (**0025 at Default**), then press **ENTER**.

If you enter a wrong code, the Control panel will emit an audible error signal.

Accessing the
Programming session

When you access the Programming session, the Control panel will:

- a) activate the  indicator (slow blink) on LED Keypads;
- b) turn off all the indicators (,  and 
- c) clear the alarm memory;
- d) force all the outputs (Alarm and Open Collector) to standby status;
- e) stop the event evaluation;
- f) *if necessary* — interrupt ongoing calls, and put the Call queue on hold;
- g) lock all other Keypads, except for the one in use.


Exiting Programming

Press **ESC** to step back (the Control panel will take one step back each time **ESC** is pressed).

When you exit the Programming session, the Control panel will:

- a) restore all other Keypads to Standby status;
- b) restore to Standby status or, if necessary, restart the call queue from the interrupted call.

NOTE: Interrupted Teleservice calls will not be restarted.

- c) turn off the  light on the LED Keypads.

Programming

The following procedures are based on the assumption that you have already entered the Programming phase.

Keypads

- Enrolling Keypads**
1. To enrol one or more Keypads, ente the respective parameter number from (1 through 8), then press **ENTER**.
 2. Using key **1, 2 or 3**, set the type of Keypad (refer to Tab. 5.).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Enabling Keypads on Partitions**
1. To enable a Keypad on the Partitions, enter a Parameter Number from **9-16** (refer to Tab. 5 for details), then press **ENTER**.
 2. Using keys **1 to 4** (which correspond respectively to Partitions 1 to 4), enable/disable the Keypad on the Partitions (refer to Tab. 5 for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

***NOTE:** Wrong entries can be deleted by pressing **ESC**. This operation may at times exit the **Programming** menu completely, in such cases, it will be necessary to re-enter the Installer code.*

Tab. 5 - KEYPAD SETTINGS

Parameter Number	Parameter Description	Accepted Entries	Meaning of LED							
1 – 8	Keypads to Enrol 1 = Keypad 01, 4 = Keypad 04, 7 = Keypad 07 2 = Keypad 02, 5 = Keypad 05, 8 = Keypad 08 3 = Keypad 03, 6 = Keypad 06,	1 – 3	Combinations: The ON/OFF status of LEDs 1 – 3 determines the following settings:							
			Keypad Type							
			<table border="1" style="display: inline-table;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> </table>	1	2	3	1	2	3	None
			1	2	3					
			1	2	3					
<table border="1" style="display: inline-table;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> </table>	1	2	3	1	2	3	LCD			
1	2	3								
1	2	3								
<table border="1" style="display: inline-table;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> </table>	1	2	3	1	2	3	Alison/32LP			
1	2	3								
1	2	3								
<table border="1" style="display: inline-table;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> </table>	1	2	3	1	2	3	Premium LED Classika LED ICON/KP Alison/8L			
1	2	3								
1	2	3								
<table border="1" style="display: inline-table;"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> </table>	1	2	3	1	2	3	NC2/TAST			
1	2	3								
1	2	3								
9 – 16	Enable Keypads 01 - 08 on Partitions 1 - 4 9 = Keypad 01, 12 = Keypad 04, 15 = Keypad 07 10 = Keypad 02, 13 = Keypad 05, 16 = Keypad 08 11 = Keypad 03, 14 = Keypad 06,	1 – 4	ON - Partition Enabled OFF - Partition Disabled							

Readers

- Enrolling Readers**
- To enrol Readers **1** to **8**: enter **18**, then press **ENTER**.
NOTE: At this point, keys 1 to 8 correspond to Readers 1 to 8.
 To enrol Readers **9** to **16**: enter **17**, then press **ENTER**.
NOTE: At this point, keys 1 to 8 correspond to Readers 9 to 16 (i.e. key 1 corresponds to Reader 9, key 2 to Reader 10, etc.).
 - Press the respective keys to enrol Readers on the system (refer to Tab. 6 for details).
 - Press **ENTER** to confirm, or **ESC** to abort the setting.
- Enabling Readers on Partitions**
- To enable Readers on Partitions 1 to 4, enter a Parameter Number from **19 – 154** (refer to Tab. 6 for details), then press **ENTER**.
 - Using keys **1** to **4** (respectively Partitions 1 to 4), enable/disable the Reader on the Partitions (refer to Tab. 6 for details).
 - Press **ENTER** to confirm, or **ESC** to abort the setting.
- A Mode Arming**
- To set up the **A Mode** Arming configuration, enter a Parameter Number from **20 – 155** (refer to Tab. 6 for details), then press **ENTER**.
 - Using keys **1** to **4** (respectively Partitions 1 to 4), set up the **A Mode** Arming configuration.

Tab. 6 - READER SETTINGS

Parameter Number	Parameter Description	Accepted Entries	Meaning of LED
17	Enrol Readers 01 - 08	1 - 8	ON - Reader Enrolled OFF -Reader NOT Enrolled
18	Enrol Readers 09 - 16		
19 – 154	Enable Readers 01 - 16 on Partitions 01 -04 19 = Reader 01, 73 = Reader 07, 127 = Reader 14 28 = Reader 02, 82 = Reader 08, 136 = Reader 14 37 = Reader 03, 91 = Reader 09, 145 = Reader 15 46 = Reader 04, 100 = Reader 10, 154 = Reader 16 55 = Reader 05, 109 = Reader 11, 64 = Reader 06, 118 = Reader 12,	1 - 4	ON - Partition Enabled OFF - Partition Disabled
20 – 155	A Mode Arming options (Amber) 20=Reader 01 92=Reader 09 29=Reader 02 101=Reader 10 38=Reader 03 110=Reader 11 47=Reader 04 119=Reader 12 56=Reader 05 128=Reader 13 65=Reader 06 137=Reader 14 74=Reader 07 146=Reader 15 83=Reader 08 155=Reader 16	1 - 4	OFF - No Operation ON - Stay Mode (S) Slow Blinking - Away Mode (A) Fast Blinking - Disarmed (D) (LED Keypads DO NOT accept the Z Mode setting)
24 – 159	B Mode Arming options (Green) 24=Reader 01 96=Reader 09 33=Reader 02 105=Reader 10 42=Reader 03 114=Reader 11 51=Reader 04 123=Reader 12 60=Reader 05 132=Reader 13 69=Reader 06 141=Reader 14 78=Reader 07 150=Reader 15 87=Reader 08 159=Reader 16		

NOTE: The ON, OFF, Slow or Fast Blinking status of each key determines the status the respective Partition will adopt during A Mode (refer to “Meaning of LED/Key status” in Tab. 6).

3. Press **ENTER** to confirm, or **ESC** to abort the setting.

NOTE: The Reader will not accept “Z” Mode (Stay with 0 Delay).

- B Mode Arming**
1. To set up the **B Mode** Arming configuration, enter a Parameter Number from **24 – 159** (refer to Tab. 6 for details), then press **ENTER**.
 2. Using keys **1** to **4** (respectively Partitions 1 to 4), set up the **B Mode** Arming configuration.

NOTE: The ON, OFF, Slow or Fast Blinking status of each key determines the status the respective Partition will adopt during B Mode (refer to “Meaning of LED/Key status” in Tab. 6).

3. Press **ENTER** to confirm, or **ESC** to abort the setting.

NOTE: The Reader will not accept “Z” Mode (Stay with 0 Delay).

Setting up the Zones

- Setting up the Type and Balance**
1. To set up the Type and Balance, enter a Parameter Number from **163 – 191** (refer to Tab. 7a for details), then press **ENTER**.

NOTE: At this point, keys 1 to 5 will allow you to program the Zone Type and Balance (refer to “Meaning of LED/Key status” in Tab. 7a).

2. Using keys **1** to **3**, select the Zone Type.
3. Using keys **4** and/or **5**, select the Balance Type.
4. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Zone Attributes**
1. To assign the Zone Attributes, enter a Parameter Number from **164 – 192** (refer to Tab. 7a for details), then press **ENTER**.

NOTE: At this point, keys 1 to 8 correspond to Zones 1 to 8.

2. Using the respective key, assign the Zone Attribute (refer to Tab. 7a for details).

IMPORTANT - Ensure that you DO NOT press keys 7 and 8 contemporarily.

3. Press **ENTER** to confirm, or **ESC** to abort the setting.

Assigning Zones to Partitions 1. Enter a Parameter Number from **165 – 193** (refer to Tab. 7a for details), then press **ENTER**.

NOTE: At this point, keys 1 to 4 correspond to Partitions 1 to 4.

2. Using keys **1** to **4**, assign the Zone to the Partitions (refer to Tab. 7a for details).

3. Press **ENTER** to confirm, or **ESC** to abort the setting.

Tab. 7a - ZONE SETTINGS			
Parameter Number	Parameter Description	Accepted Entries	Meaning of LED
163 – 191	Zone Type, Balance and Attribute 163 = Zone 01 167 = Zone 02 171 = Zone 03 175 = Zone 04 179 = Zone 05 183 = Zone 06 187 = Zone 07 191 = Zone 08	1 – 5	Combinations: The ON/OFF status of LEDs 1 – 5 determines the following settings:
			Zone Type
			<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 Instant
			<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 Delayed
			<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 Path
			<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 24 h
			<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 Duress
			<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 Fire
			<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 Switching
			<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 Arm
			Balance Type
			<input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 Double Balance
			<input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 Normally Open
			<input type="checkbox"/> 4 <input type="checkbox"/> 5 Normally Closed
<input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 Balance			
6 – 8	Attribute: ON - Enabled, OFF - Disabled		<input checked="" type="checkbox"/> 6 Double pulse
			<input checked="" type="checkbox"/> 7 AND Zone
			<input type="checkbox"/> 8 OR Zone
164 – 192	Zone Attribute 164 = Zone 01 168 = Zone 02 172 = Zone 03 176 = Zone 04 180 = Zone 05 184 = Zone 06 188 = Zone 07 192 = Zone 08	1 – 8	ON - Enabled, OFF - Disabled
			<input checked="" type="checkbox"/> 1 - Uninfluential
			<input checked="" type="checkbox"/> 2 - Unbypassable
			<input checked="" type="checkbox"/> 3 - Bell
			<input checked="" type="checkbox"/> 4 - Mute
			<input checked="" type="checkbox"/> 5 - Test
			<input checked="" type="checkbox"/> 6 - Internal
			<input checked="" type="checkbox"/> 7 - Vibration
<input checked="" type="checkbox"/> 8 - Rollerblind			
165 – 193	Assign Zones 01 - 08 to Partitions 01 - 04 165 = Zone 01, 177 = Zone 04, 189 = Zone 07 169 = Zone 02, 181 = Zone 05, 193 = Zone 08 173 = Zone 03, 185 = Zone 06	1 – 4	ON - Assigned
			OFF - NOT Assigned
166 – 194	Number of Cycles 166 = Zone 01, 178 = Zone 04, 190 = Zone 07 170 = Zone 02, 182 = Zone 05, 194 = Zone 08 174 = Zone 03, 186 = Zone 06	0 – 15	Enter a value from 0 through 15: 1 – 14 = Number of Cycles 0 - No Cycle, 15 - Repetitive
307 – 312	Assign 'Vibration' or 'Rollerblind' Attribute 307 = Zone 01 309 = Zone 03 311 = Zone 05 308 = Zone 02 310 = Zone 04 312 = Zone 06		Refer to Tab. 7b and 7c

- Cycles**
1. Enter a Parameter Number from **166 – 194** (refer to Tab. 7a for details), then press **ENTER**.
 2. Enter the required number of Cycles (refer to Tab. 7a).
Accepted entries: 0 through 15 (0 = No cycles; 15 = Repetitive). If you enter a wrong value the Keypad will emit an audible error signal then allow you to retry.
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- 'Vibration' and 'Rollerblind' Attributes**
1. Enter a Parameter Number from **307 – 312** (refer to Tab. 7a for details), then press **ENTER**.

NOTE - ONLY the first 6 Zones can be 'Vibration' or 'Rollerblind Zones.'

- 2a. **'Vibration' Zones** — Enter the required value (refer to Tab. 7b).
Accepted entries: 0 through 243. If you enter a wrong value (e.g. more than 243) the Keypad will emit an audible error signal then allow you to retry.
 - 2b. **'Rollerblind' Zones** — Enter the required value (refer to Tab. 7c).
Accepted entries: 0 through 19. If you enter a wrong value (e.g. more than 19) the Keypad will emit an audible error signal then allow you to retry.
3. Press **ENTER** to confirm, or **ESC** to abort the setting.

Tab. 7b - 'VIBRATION' ZONE SETTINGS

Pulses	Sensitivity	Value to enter	Pulses	Sensitivity	Value to enter
Disabled	1 – 20	0 – 19	4	1 – 20	128 – 147
1	1 – 20	32 – 51	5	1 – 20	160 – 179
2	1 – 20	64 – 83	6	1 – 20	192 – 211
3	1 – 20	96 – 115	7	1 – 20	224 – 243

Tab. 7c - 'ROLLERBLIND' ZONE SETTINGS

Value	Pulses	Sensitivity	Value	Pulses	Sensitivity	Value	Pulses	Sensitivity	Value	Pulses	Sensitivity
0	1	30 s	5	1	120 s	10	1	240 s	15	1	always
1	2	30 s	6	2	120 s	11	2	240 s	16	2	always
2	3	30 s	7	3	120 s	12	3	240 s	17	3	always
3	4	30 s	8	4	120 s	13	4	240 s	18	4	always
4	5	30 s	9	5	120 s	14	5	240 s	19	5	always

Setting up the Outputs

1. Enter a Parameter Number from **191 – 210** (refer to Tab. 8 for details), then press **ENTER**.
 2. Using keys **1** to **8**, enable the required Activation Signal (refer to Tab. 8 for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.
-
1. Enter a Parameter Number from **211 – 215** (refer to Tab. 8 for details), then press **ENTER**.
 2. Using keys **1** to **4**, enable the Output on the Partitions (refer to Tab. 8 for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

Tab. 8 - OUTPUT SETTINGS

Parameter Number	Parameter Description	Accepted Entries	Meaning of LED
195 – 211	Output Type and Signals 195 = Output 01 199 = Output 02 103 = Output 03 207 = Output 04 211 = Output 05	1 – 8	ON - Signal Enabled OFF - Signal Disabled 1 - Valid Key 2 - Superkey 2 3 - Missing BPI 4 - Reserved 5 - Valid Code 6 - Squawk 7 - Monostable 8 - Polarity: ON = Normally Open OFF = Normally Closed
196 – 212	Signals 196 = Output 01 200 = Output 02 204 = Output 03 208 = Output 04 212 = Output 05	1 – 8	ON - Signal Enabled OFF - Signal Disabled 1 - Not Ready Stay 2 - Not Ready Away 3 - Not Ready Stay 0 Delay 4 - Restore to Standby 5 - False Key/Code 6 - Zone Tamper 7 - System Tamper 8 - BPI Tamper
197 – 213	Signals 197 = Output 01 201 = Output 02 205 = Output 03 209 = Output 04 213 = Output 05	1 – 8	ON - Signal Enabled OFF - Signal Disabled 1 - Line Down 2 - Reset Fire 3 - Alarm 4 - Remote Command 5 - Negligence 6 - Failed Call 7 - Inactivity 8 - Mute Alarm
198 – 214	Signals 198 = Output 01 202 = Output 02 206 = Output 03 210 = Output 04 214 = Output 05	1 – 8	ON - Signal Enabled OFF - Signal Disabled 1 - Partitions Armed 2 - Partitions Disarmed 3 - Trouble 4 - Alarm Memory 5 - Exit Time 6 - Entry Time 7 - Chime 8 - Auto-Arm Timeout
215 – 219	Assign to Partitions 215 = Output 01, 217 = Output 03, 219 = Output 05 216 = Output 02, 218 = Output 04	1 – 4	LEDs 1 to 4 correspond to Partitions 1 to 4 ON - Enabled OFF - Disabled

Setting up Times, Inactivity and Negligence

Times 1. Enter the relevant Programming Address (refer to Tab. 9 — Programming Addresses **220 – 264**), then press **ENTER**.

2a. Enter the required value (maximum 3 digits). The accepted values can be found in Tab. 9.

***ATTENTION** - The Control panel DOES NOT verify the validity of data entries.*

Enabling Inactivity and/or Negligence 2b. Using keys **1** through **4**, enable/disable the Inactivity and/or Negligence options on the Partitions.

3. Press **ENTER** to confirm, or **ESC** to abort the setting.

Tab. 9 - TIMES AND NEGLIGENCE/INACTIVITY SETTINGS

Parameter Number	Parameter Description	Accepted Entries	Meaning of LED
220 – 223	Exit Time (expressed in seconds) 220 = Partition 01, 222 = Partition 03 221 = Partition 02, 223 = Partition 04	0 – 250	
224 – 227	Entry Time (expressed in seconds) 224 = Partition 01, 226 = Partition 03 225 = Partition 02, 227 = Partition 04	0 – 250	
228 – 231	Timeout-to-arm (expressed in minutes) 228 = Partition 01, 230 = Partition 03 229 = Partition 02, 231 = Partition 04	0 – 63	
232 – 235	AND Zone Times (expressed in seconds) 232 = Partition 01, 234 = Partition 03 233 = Partition 02, 235 = Partition 04	0 – 250	
236 – 239	AND Code Times (expressed in seconds) 236 = Partition 01, 238 = Partition 03 237 = Partition 02, 239 = Partition 04	0 – 250	
240 – 247	Zone Double Pulse Time (expressed in seconds) 240 = Zone 01, 242 = Zone 03, 244 = Zone 05, 246 = Zone 07 241 = Zone 02, 243 = Zone 04, 245 = Zone 06, 247 = Zone 08	0 – 250	
248	Patrol Time (expressed in minutes)	0 – 63	
249	Talk Time (expressed in minutes)	0 – 63	
250	Alarm Time (expressed in minutes)	0 – 63	
251	Inactivity Time (expressed in hours)	0 – 99	
252	Negligence Time (expressed in days)	0 – 99	
253	Enable Inactivity	1 – 4	The 4 LEDs represent respectively the status of the 4 Partitions ON - Inactivity Enabled OFF - Inactivity Disabled
254	Enable Negligence	1 – 4	The 4 LEDs represent respectively the status of the 4 Partitions ON - Negligence Enabled OFF - Negligence Disabled
255 – 259	ON Time for Monostable (expressed in seconds) 255 = Output 01, 257 = Output 03, 259 = Output 05 256 = Output 02, 258 = Output 04,	0 – 250	
260 – 264	OFF Time for Monostable (expressed in seconds) 260 = Output 01, 262 = Output 03, 264 = Output 05 261 = Output 02, 263 = Output 04,	0 – 250	

Telephone

- Setting up the Phonebook (up to 8 Telephone Numbers)**
1. Enter a Parameter Number from **703 – 892** (refer to Tab. 10a for details), then press **ENTER**.
 2. Enter the Telephone Number (maximum 20 digits).
 3. Press **ENTER** to confirm, or **ESC** to delete the entry.

Tab. 10a - PHONEBOOK SETTINGS

Parameter Number	Parameter Description	Accepted Entries	Meaning of LED / Notes	
703 – 892	Telephone Number 703 = Tel. Number 01 811 = Tel. Number 05 730 = Tel. Number 02 838 = Tel. Number 06 757 = Tel. Number 03 865 = Tel. Number 07 784 = Tel. Number 04 892 = Tel. Number 08	Max. 20 digits	<i>This Control panel manages up to 8 Telephone Numbers</i>	
723 – 912	Customer Codes 723 = Tel. Number Code 01 831 = Tel. Number Code 05 750 = Tel. Number Code 02 858 = Tel. Number Code 06 777 = Tel. Number Code 03 885 = Tel. Number Code 07 804 = Tel. Number Code 04 912 = Tel. Number Code 08	5 digits	<i>Each Telephone Number can be associated with a Customer Code</i>	
728 - 917	Tel. Number Types 728 = Tel. Number 01 755 = Tel. Number 02 782 = Tel. Number 03 809 = Tel. Number 04 836 = Tel. Number 05 863 = Tel. Number 06 890 = Tel. Number 07 917 = Tel. Number 08	The various ON/OFF combinations of LEDs/Keys 1 through 4 and 6 through 7 determine the settings of the following parameters:		
		Tel. Number Type		
		1 – 4	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	None
			<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	Teleservice
			<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	Voice
			<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	Contact ID
			<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	Cesa
			<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	Ademco 10 bps
			<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	Ademco 14 bps
			<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4	Franklin 20 bps
			<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4	Radionics 40 bps
			<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4	Scantronic 10 bps
		<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4	Customized	
6 – 7	NOT valid for Tel. Number Types: None, Teleservice and Voice			
	<input type="checkbox"/> 6 <input type="checkbox"/> 7	2-Way Audio OFF		
	<input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7	Listen-in		
	<input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7	Invalid		
1 – 4	<input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 7	2-Way Audio ON		
729 - 918	Enable Tel. Number on Partition 729 = Tel. Number 01 837 = Tel. Number 05 756 = Tel. Number 02 864 = Tel. Number 06 783 = Tel. Number 03 891 = Tel. Number 07 810 = Tel. Number 04 918 = Tel. Number 08	1 – 4	LEDs 1 through 4 represent respectively Partitions 1 through 4 ON - Number Enabled on the Partition OFF - Number Disabled on the Partition	

- Central Station Customer Code**
1. Enter a Parameter Number from **723 – 912** (refer to Tab. 10a for details), then press **ENTER**.
 2. Enter the Customer Code (5 digits — 0 through 9).
 3. Press **ENTER** to confirm, or **ESC** to delete the entry.

- Type and Teleservice**
1. Enter a Parameter Number from **728 – 917** (refer to Tab. 10a for details), then press **ENTER**.
 2. Using keys **1** to **7**, define the Reporting Format, Telephone Number and Central Station Types (refer to Tab. 10a. for details). Key **5** is uninfluential.
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Assigning the Telephone Numbers to Partitions**
1. Enter a Parameter Number from **729 – 918** (refer to Tab. 10a for details), then press **ENTER**.
 2. Using keys **1** to **4**, enable/disable the Telephone number on the Partition (refer to Tab 10a for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

This option is relevant to Voice Telephone Numbers only.

- Setting up the Dialling Type**
1. Enter Parameter Number **283**, then press **ENTER**.
 2. Using key **6**, enable/disable the ‘Disallow Tone Check’ option, then using key **7** select the relevant Dialling mode (refer to Tab. 10b for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

Tab. 10b - TELEPHONE SETTINGS

Parameter Number	Parameter Descriptions	Accepted Entries	Meaning of LED
283	Disable Tone Check	6	ON - Tone Check Disabled OFF - Tone Check Enabled
	DTMF Dialling	7	ON - DTMF (Touch Tone) OFF - Pulse

Setting up Teleservice and Test Event

- Callback and Double Call**
1. Enter Parameter Number **283**, then press **ENTER**.
 2. Using keys **3** and/or **5**, enable/disable the “Callback” and “Double Call” options (refer to Tab. 11 for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Number of Rings**
1. Enter Parameter Number **281**, then press **ENTER**.
 2. Enter the required number of rings (accepted entries: 0 through 19).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Installer Telephone Number**
1. Enter Parameter Number **282**, then press **ENTER**.
 2. Enter the Telephone number ID number (refer to Tab. 11 for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Test Call**
1. Enter Parameter Number **286**, then press **ENTER**.
 2. Using key **8**, enable/disable the Test Call (refer to Tab. 11 for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- First Test Event**
1. Enter Parameter Number **300**, then press **ENTER**.
 2. Enter the Date and time of the Test Event in DDMMYYHHMM format (10 digits), for example, to set 3rd May 2004 enter 030504.
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Interval**
1. Enter Parameter Number **304**, then press **ENTER**.
 2. Enter the number of hours between each Test Event (accepted entries: 1 through 9999). To disable the ‘Interval’, enter 0 (zero).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

Tab. 11 - TELESERVICE AND TEST EVENT

Parameter Number	Parameter Description	Accepted Entries	Notes
281	Number of Rings	0 – 19	
282	Installer Telephone Number	0 – 7	Value 0 = Tel. Num. 01 ... Value 7 = Tel. Num. 08
283	Callback	3	LED ON - Option Enabled LEDOFF - Option Disabled
	Double Call	5	
286	Teleservice Test Call	8	
300	Date and Time of next Test Event	10 digits	Format DDMMYYHHMM
304	Period	0 – 9999	Value expressed in hours

Events

- Setting up the Events**
1. Enter a Parameter Number from **919 – 1720** (refer to Tab. 12), then press **ENTER**.
 2. Enter the Event Code, then press **ENTER**.

IMPORTANT - The Event Codes are Decimal Codes (accepted entries: 0 through 255). The DECIMAL – HEXADECIMAL Conversion Table can be found at the end of this Manual.

- Assigning Telephone Numbers**
1. Enter a Parameter Number from **920 – 1721** (refer to Tab. 12 for details), then press **ENTER**.
 2. Using keys **0** to **8**, assign the Telephone Number to the Event.

- Assigning Messages to Events**
1. Enter a Parameter Number from **921 – 1722** (refer to Tab. 12 for details), then press **ENTER**.
 2. Using keys **0** to **7**, assign the respective Voice Message (refer to Tab. 12 for details), then press **ENTER**.

Example: Press **0** to assign Message 01, **1** to assign Message 02, etc.

Tab. 12 - EVENTS			
Parameter Number	Parameter Description	Accepted Entries	Notes
919	Event Number 0	1 – 255	Event Number expressed in accordance with the decimal system.
920	Telephone Numbers assigned to Event 0	1 – 8	LED ON - Number Enabled LED OFF - Number Disabled
921	Number of Message assigned to Event 0	0 – 7	Enter the respective Number then press ENTER. The Number will not be considered valid until ENTER is pressed.
Address	Calculate the Programming Addresses of the Events between 922 and 1719 as follows: $Address = 919 + (3 \times NumEvent)$		
1720	Event Number 267	1 – 255	Event Number expressed in accordance with the decimal system.
1721	Assign Telephone Numbers to Event 267	1 – 8	LED ON - Number Enabled LED OFF - Number Disabled
1722	Assign Message Number to Event 267	0 – 7	Enter the respective Number then press ENTER. The Number will not be considered valid until ENTER is pressed.

Setting up the Scheduler

- Linking Days with Partitions**
1. To set up the Scheduler, enter a Parameter Number from **2619 – 2664** (refer to Tab. 13 for details), then press **ENTER**.
 2. Using keys **1** to **7**, link the respective days of the week with the Partition (refer to Tab. 13 for details), then press **ENTER**.
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Times: Hours and Minutes**
1. To set the Times (HOURS and MINUTES), enter a Parameter Number from **2620 – 2665** (refer to Tab. 13 for details), then press **ENTER**.
 2. Enter the required Times (HOURS and MINUTES), then press **ENTER** to confirm the setting.

Tab. 13 - SCHEDULER			
Parameter Number	Parameter Description	Accepted entries	Meaning of LED / Notes
2619 – 2664	Linking Days with Partitions 2619 = Part 01, 2625 = Part 02, 2649 = Part 03, 2664 = Part 04	1 – 7	ON - Linked OFF - Not Linked
2620 – 2665	HOURS for Monday 2620 = Part 01, 2635 = Part 02, 2650 = Part 03, 2665 = Part 04	0 – 23	Monday
2621 – 2666	MINUTES for Monday 2621 = Part 01, 2636 = Part 02, 2651 = Part 03, 2666 = Part 04	0 – 59	
2622 – 2667	HOURS for Tuesday 2622 = Part 01, 2637 = Part 02, 2652 = Part 03, 2667 = Part 04	0 – 23	Tuesday
2623 – 2668	MINUTES for Tuesday 2623 = Part 01, 2638 = Part 02, 2653 = Part 03, 2668 = Part 04	0 – 59	
2624 – 2669	HOURS for Wednesday 2624 = Part 01, 2639 = Part 02, 2654 = Part 03, 2669 = Part 04	0 – 23	Wednesday
2625 – 2670	MINUTES for Wednesday 2625 = Part 01, 2640 = Part 02, 2655 = Part 03, 2670 = Part 04	0 – 59	
2626 – 2671	HOURS for Thursday 2626 = Part 01, 2641 = Part 02, 2656 = Part 03, 2671 = Part 04	0 – 23	Thursday
2627 – 2672	MINUTES for Thursday 2627 = Part 01, 2642 = Part 02, 2657 = Part 03, 2672 = Part 04	0 – 59	
2628 – 2673	HOURS for Friday 2628 = Part 01, 2643 = Part 02, 2658 = Part 03, 2673 = Part 04	0 – 23	Friday
2629 – 2674	MINUTES for Friday 2629 = Part 01, 2644 = Part 02, 2659 = Part 03, 2674 = Part 04	0 – 59	
2630 – 2675	HOURS for Saturday 2630 = Part 01, 2645 = Part 02, 2660 = Part 03, 2675 = Part 04	0 – 23	Saturday
2631 – 2676	MINUTES for Saturday 2631 = Part 01, 2646 = Part 02, 2661 = Part 03, 2676 = Part 04	0 – 59	
2632 – 2677	HOURS for Sunday 2632 = Part 01, 2647 = Part 02, 2662 = Part 03, 2677 = Part 04	0 – 23	Sunday
2633 – 2678	MINUTES for Sunday 2633 = Part 01, 2648 = Part 02, 2663 = Part 03, 2678 = Part 04	0 – 59	

Options

- Enabling Options**
1. Enter a Parameter Number from **283 – 290** (refer to Tab. 14 for details), then press **ENTER**.
 2. Using keys **1** to **8**, enable the Options as required (refer to Tab. 14 for details).

NOTE: A full description of the Options can be found on the back page of the INSTALLATION MANUAL.

3. Press **ENTER** to confirm, or **ESC** to abort the setting.

Tab. 14 - OPTIONS			
Parameter Number	Parameter Description	Accepted Entries	Meaning of LED
286	Options no. 0 through no. 7	LED ON - Option Enabled LED OFF - Option Disabled	
		1 – 8	1 - Option no. 0 ↓ 8 - Option no. 7
285	Options no. 8 through no. 15	1 – 8	1 - Option no. 8 ↓ 8 - Option no. 15
284	Options no. 16 through no. 23	1 – 8	1 - Option no. 16 ↓ 8 - Option no. 23
283	Options no. 24 through no. 31	1 – 8	1 - Option no. 24 ↓ 8 - Option no. 31
290	Options no. 32 through no. 39	1 – 8	1 - Option no. 32 ↓ 8 - Option no. 39
289	Options no. 40 through no. 47	1 – 8	1 - Option no. 40 ↓ 8 - Option no. 47
288	Options no. 48 through no. 55	1 – 8	1 - Option no. 48 ↓ 8 - Option no. 55
287	Options no. 56 through no. 63	1 – 8	1 - Option no. 56 ↓ 8 - Option no. 63
291	Auto-Reset Memory	1 – 4	ON - Partition with Auto-Reset OFF - Partition without Auto-Reset

- Auto-Reset Memory**
- To set Auto-Reset Memory, enter **291** then press **ENTER**.
 - Using keys **1** to **4** (which correspond respectively to Partitions 1 to 4), enable/disable the Auto-Reset Memory option (refer to Tab. 14 for details).
 - Press **ENTER** to confirm, or **ESC** to abort the setting.

Tab. 15 - CODE SETTINGS				
Parameter Number	Parameter Description	Accepted Entries	Meaning of LED / Notes	
463 – 693	Code Type 463 = Code 01, 543 = Code 09, 623 = Code 17 473 = Code 02, 553 = Code 10, 633 = Code 18 483 = Code 03, 563 = Code 11, 643 = Code 19 493 = Code 04, 573 = Code 12, 653 = Code 20 503 = Code 05, 583 = Code 13, 663 = Code 21 513 = Code 06, 593 = Code 14, 673 = Code 22 523 = Code 07, 603 = Code 15, 683 = Code 23 533 = Code 08, 613 = Code 16, 693 = Code 24	1 – 3	The various ON/OFF combinations of LEDs/Keys 1 through 3 determine the settings of the following parameters:	
			<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 Inactive	
			<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 Main User	
			<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 User	
			<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 Duress	
			<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 Patrol	
			<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 DTMF	
		4	Reset Call Queue	
			<input checked="" type="checkbox"/> 4	ON - Enabled OFF - Disabled
		464 – 694	Enable Code on Partitions 464 = Code 01, 544 = Code 09, 624 = Code 17 474 = Code 02, 554 = Code 10, 634 = Code 18 484 = Code 03, 564 = Code 11, 644 = Code 19 494 = Code 04, 574 = Code 12, 654 = Code 20 504 = Code 05, 584 = Code 13, 664 = Code 21 514 = Code 06, 594 = Code 14, 674 = Code 22 524 = Code 07, 604 = Code 15, 684 = Code 23 534 = Code 08, 614 = Code 16, 694 = Code 24	1 – 4
465 – 695	A Mode (Amber) Arming Options 465 = Code 01, 545 = Code 09, 625 = Code 17 475 = Code 02, 555 = Code 10, 635 = Code 18 485 = Code 03, 565 = Code 11, 645 = Code 19 495 = Code 04, 575 = Code 12, 655 = Code 20 505 = Code 05, 585 = Code 13, 665 = Code 21 515 = Code 06, 595 = Code 14, 675 = Code 22 525 = Code 07, 605 = Code 15, 685 = Code 23 535 = Code 08, 615 = Code 16, 695 = Code 24	1 – 4	OFF - No Operation ON - Stay Mode (S) Slow Blinking - Away Mode (I) Fast Blinking - Disarmed (D) (LED Keypads DO NOT accept the Z Mode Setting.)	
	B Mode (Green) Arming Options 469 = Code 01, 549 = Code 09, 629 = Code 17 479 = Code 02, 559 = Code 10, 639 = Code 18 489 = Code 03, 569 = Code 11, 649 = Code 19 499 = Code 04, 579 = Code 12, 659 = Code 20 509 = Code 05, 589 = Code 13, 669 = Code 21 519 = Code 06, 599 = Code 14, 679 = Code 22 529 = Code 07, 609 = Code 15, 689 = Code 23 539 = Code 08, 619 = Code 16, 699 = Code 24			
457	Installer Code	max. 6 digits		

Codes

- Code Type**
1. Enter a Parameter Number from **463 – 693** (refer to Tab. 15 for details), then press **ENTER**.
 2. Using keys **1** to **3**, define the Code Type (refer to Tab. 15 for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Enabled Partitions**
1. Enter a Parameter Number from **464 – 694** (refer to Tab. 15 for details), then press **ENTER**.
 2. Using keys **1** to **4**, enable/disable the Code on the Partitions (refer to Tab. 15 for details).
 3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Options for Type A Arming Mode**
1. Enter a Parameter Number from **465 – 695** (refer to Tab. 15 for details), then press **ENTER**.
 2. Using keys **1** to **4** (Partitions 1 to 4 respectively) set up the **A** Arming Mode for the Code (refer to Tab. 15 for details).

***NOTE:** The Reader will not accept “Z” Mode (Stay with 0 Delay).*

3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Options for Type B Arming Mode**
1. Enter a Parameter Number from **469 – 699** (refer to Tab. 15 for details), then press **ENTER**.
 2. Using keys **1** to **4** (Partitions 1 to 4 respectively) set up the **B** Arming Mode for the Code (refer to Tab. 15 for details).

***NOTE:** The Reader will not accept “Z” Mode (Stay with 0 Delay).*

3. Press **ENTER** to confirm, or **ESC** to abort the setting.

- Programming the Installer Code**
1. Enter Parameter Number **457**, then press **ENTER**.
 2. Enter the New Installer Code, then press **ENTER**.

Programming Keys and Cards

- Programming New Keys/Cards**
1. To program a new Key/Card, enter Parameter Number **5000**, then press **ENTER**. The **⊗** indicator will turn ON.
 2. Enter the ID Number of the Reader you intend to use (accepted entries: 1 through 16), then press **ENTER**. The **■** indicator will turn ON.

***ATTENTION** - The Reader must be enrolled on the system, and must be in standby status before starting the Key/Card programming session.*

3. Using **1** (SERVICE), **2** (RESET CALL QUEUE), **3** (AND) and/or **4** (PATROL) set up the Key/Card Options, then press **ENTER** to confirm and continue (**T** indicator ON), or press **ESC** to abort the setting and step back.
4. Using keys **1** to **4**, enable/disable the Key/Card on the respective Partition (refer to Tab. 16 for details), then press **ENTER** to continue, or **ESC** to step back.
5. Hold the Key/Card near the sensitive field of the Reader, or insert the key into the Reader. Successful enrolling will be indicated by:
 - a) a long beep;
 - b) the **✓** indicator (ON);
 - c) the Binary Code of the respective Key/Card ID Number on the Keypad.
 If enrolling fails, the Reader will emit an audible error signal, and all the backlit keys will turn OFF.

***NOTE:** The **DECIMAL – BINARY** Conversion Table can be found at the end of this Manual.*

Repeat the procedure for each of the system Key/Cards.

6. Press **ESC** to step back.

- Changing Keys/Cards**
1. To change a Key/Card, enter a Parameter Number from **5001 — 5128** (refer to Tab. 16 for details), then press **ENTER**.
 2. Using **1** (SERVICE), **2** (RESET CALL QUEUE), **3** (AND) and/or **4** (PATROL) change the Key/Card options. If the Key/Card has been properly enrolled, key **7** (LED 3) will light. To unenrol the Key/Card, press **8**. The Key/Card will be unenrolled when the programming session ends.
 3. Press **ENTER** to go to the next step.
 4. Using keys **1** to **4**, enable/disable the Key/Card on the respective Partition (refer to Tab. 16 for details), then press **ENTER** to continue, or **ESC** to step back.

Tab. 16 - PROGRAMMING OR CHANGING A KEY/CARD			
Step no.	Description	Key Sequence	Indicator ON
1	Programming a New Key	5 0 0 0 ENTER	⊗
2	Select Reader (1 – 16)	1 ENTER ÷ 1 6 ENTER	⊗ ⊗
3	Enable Key/Card Options	1 , 2 , 3 and/or 4 (SERVICE, RESET CALL QUEUE, AND, PATROL Options)	⊗ ⊗
		ENTER	T
4	Enable Key/Card on Partitions	1 (for Partition 1)	ENTER ⊗ T
		2 (for Partition 2)	
		3 (for Partition 3)	
		4 (for Partition 4)	
5	Enrolling Key/Card	Hold the Key/Card near the sensitive field of the Reader, or insert the key into the Reader	✓ (Key/Card Enrolled)
Step no.	Description	Key Sequence	Note
1	Changing Key/Card	5 0 0 1 ENTER (for Key/Card 1) to 5 1 2 8 ENTER (for Key/Card 128)	<i>Accepted Entries from 5001 to 5128</i>
2	Changing Key/Card Options	1 , 2 , 3 and/or 4 (SERVICE, RESET CALL QUEUE, AND, PATROL Options)	ON - Option Enabled OFF - Option Disabled
		7 (Signals Key/Card Present or Not Present)	ON - Key present OFF - Key not present
		8 (Unenrol Key/Card)	ON - The Key/Card will be unenrolled when you exit the Programming session

Extra Parameters

***ATTENTION** - The **Extra Parameters** are reserved for Factory programming purposes.*

1. To program the Extra Parameters, enter a Parameter number from **265** — **280**, then press **ENTER**.
2. Enter the respective Parameter Number, then press **ENTER**.

Customized Protocol Parameters

***ATTENTION** - The **Customized Protocol Parameters** are reserved for Factory programming purposes.*

1. To program the Customized Protocol Parameters, enter a Parameter number from **2680** — **2691**, then press **ENTER**.
2. Enter the respective Parameter Number, then press **ENTER**.

DECIMAL-HEXADECIMAL Conversion Table (0–255)

Dec.	Hexa.	Dec.	Hexa.	Dec.	Hexa.	Dec.	Hexa.	Dec.	Hexa.	Dec.	Hexa.
0	00	44	2C	88	58	132	84	176	B0	220	DC
1	01	45	2D	89	59	133	85	177	B1	221	DD
2	02	46	2E	90	5A	134	86	178	B2	222	DE
3	03	47	2F	91	5B	135	87	179	B3	223	DF
4	04	48	30	92	5C	136	88	180	B4	224	E0
5	05	49	31	93	5D	137	89	181	B5	225	E1
6	06	50	32	94	5E	138	8A	182	B6	226	E2
7	07	51	33	95	5F	139	8B	183	B7	227	E3
8	08	52	34	96	60	140	8C	184	B8	228	E4
9	09	53	35	97	61	141	8D	185	B9	229	E5
10	0A	54	36	98	62	142	8E	186	BA	230	E6
11	0B	55	37	99	63	143	8F	187	BB	231	E7
12	0C	56	38	100	64	144	90	188	BC	232	E8
13	0D	57	39	101	65	145	91	189	BD	233	E9
14	0E	58	3A	102	66	146	92	190	BE	234	EA
15	0F	59	3B	103	67	147	93	191	BF	235	EB
16	10	60	3C	104	68	148	94	192	C0	236	EC
17	11	61	3D	105	69	149	95	193	C1	237	ED
18	12	62	3E	106	6A	150	96	194	C2	238	EE
19	13	63	3F	107	6B	151	97	195	C3	239	EF
20	14	64	40	108	6C	152	98	196	C4	240	F0
21	15	65	41	109	6D	153	99	197	C5	241	F1
22	16	66	42	110	6E	154	9A	198	C6	242	F2
23	17	67	43	111	6F	155	9B	199	C7	243	F3
24	18	68	44	112	70	156	9C	200	C8	244	F4
25	19	69	45	113	71	157	9D	201	C9	245	F5
26	1A	70	46	114	72	158	9E	202	CA	246	F6
27	1B	71	47	115	73	159	9F	203	CB	247	F7
28	1C	72	48	116	74	160	A0	204	CC	248	F8
29	1D	73	49	117	75	161	A1	205	CD	249	F9
30	1E	74	4A	118	76	162	A2	206	CE	250	FA
31	1F	75	4B	119	77	163	A3	207	CF	251	FB
32	20	76	4C	120	78	164	A4	208	D0	252	FC
33	21	77	4D	121	79	165	A5	209	D1	253	FD
34	22	78	4E	122	7A	166	A6	210	D2	254	FE
35	23	79	4F	123	7B	167	A7	211	D3	255	FF
36	24	80	50	124	7C	168	A8	212	D4		
37	25	81	51	125	7D	169	A9	213	D5		
38	26	82	52	126	7E	170	AA	214	D6		
39	27	83	53	127	7F	171	AB	215	D7		
40	28	84	54	128	80	172	AC	216	D8		
41	29	85	55	129	81	173	AD	217	D9		
42	2A	86	56	130	82	174	AE	218	DA		
43	2B	87	57	131	83	175	AF	219	DB		

DECIMAL-BINARY Conversion Table (0 – 127)

Dec.	Binary Code								Dec.	Binary Code								Dec.	Binary Code							
	8	7	6	5	4	3	2	1		8	7	6	5	4	3	2	1		8	7	6	5	4	3	2	1
0	0	0	0	0	0	0	0	0	43	0	0	1	0	1	0	1	1	86	0	1	0	1	0	1	1	0
1	0	0	0	0	0	0	0	1	44	0	0	1	0	1	1	0	0	87	0	1	0	1	0	1	1	1
2	0	0	0	0	0	0	1	0	45	0	0	1	0	1	1	0	1	88	0	1	0	1	1	0	0	0
3	0	0	0	0	0	0	1	1	46	0	0	1	0	1	1	1	0	89	0	1	0	1	1	0	0	1
4	0	0	0	0	0	1	0	0	47	0	0	1	0	1	1	1	1	90	0	1	0	1	1	0	1	0
5	0	0	0	0	0	1	0	1	48	0	0	1	1	0	0	0	0	91	0	1	0	1	1	0	1	1
6	0	0	0	0	0	1	1	0	49	0	0	1	1	0	0	0	1	92	0	1	0	1	1	1	0	0
7	0	0	0	0	0	1	1	1	50	0	0	1	1	0	0	1	0	93	0	1	0	1	1	1	0	1
8	0	0	0	0	1	0	0	0	51	0	0	1	1	1	0	1	1	94	0	1	0	1	1	1	1	0
9	0	0	0	0	1	0	0	1	52	0	0	1	1	0	1	0	0	95	0	1	0	1	1	1	1	1
10	0	0	0	0	1	0	1	0	53	0	0	1	1	0	1	0	1	96	0	1	1	0	0	0	0	0
11	0	0	0	0	1	0	1	1	54	0	0	1	1	0	1	1	0	97	0	1	1	0	0	0	0	1
12	0	0	0	0	1	1	0	0	55	0	0	1	1	0	1	1	1	98	0	1	1	0	0	0	1	0
13	0	0	0	0	1	1	0	1	56	0	0	1	1	1	0	0	0	99	0	1	1	0	0	0	1	1
14	0	0	0	0	1	1	1	0	57	0	0	1	1	1	0	0	1	100	0	1	1	0	0	1	0	0
15	0	0	0	0	1	1	1	1	58	0	0	1	1	1	0	1	0	101	0	1	1	0	0	1	0	1
16	0	0	0	1	0	0	0	0	59	0	0	1	1	1	0	1	1	102	0	1	1	0	0	1	1	0
17	0	0	0	1	0	0	0	1	60	0	0	1	1	1	1	0	0	103	0	1	1	0	0	1	1	1
18	0	0	0	1	0	0	1	0	61	0	0	1	1	1	1	0	1	104	0	1	1	0	1	0	0	0
19	0	0	0	1	0	0	1	1	62	0	0	1	1	1	1	1	0	105	0	1	1	0	1	0	0	1
20	0	0	0	1	0	1	0	0	63	0	0	1	1	1	1	1	1	106	0	1	1	0	1	0	1	0
21	0	0	0	1	0	1	0	1	64	0	1	0	0	0	0	0	0	107	0	1	1	0	1	0	1	1
22	0	0	0	1	0	1	1	0	65	0	1	0	0	0	0	0	1	108	0	1	1	0	1	1	0	0
23	0	0	0	1	0	1	1	1	66	0	1	0	0	0	0	1	0	109	0	1	1	0	1	1	0	1
24	0	0	0	1	1	0	0	0	67	0	1	0	0	0	0	1	1	110	0	1	1	0	1	1	1	0
25	0	0	0	1	1	0	0	1	68	0	1	0	0	0	1	0	0	111	0	1	1	0	1	1	1	1
26	0	0	0	1	1	0	1	0	69	0	1	0	0	0	1	0	1	112	0	1	1	1	0	0	0	0
27	0	0	0	1	1	0	1	1	70	0	1	0	0	0	1	1	0	113	0	1	1	1	0	0	0	1
28	0	0	0	1	1	1	0	0	71	0	1	0	0	0	1	1	1	114	0	1	1	1	0	0	1	0
29	0	0	0	1	1	1	0	1	72	0	1	0	0	1	0	0	0	115	0	1	1	1	1	0	1	1
30	0	0	0	1	1	1	1	0	73	0	1	0	0	1	0	0	1	116	0	1	1	1	0	1	0	0
31	0	0	0	1	1	1	1	1	74	0	1	0	0	1	0	1	0	117	0	1	1	1	0	1	0	1
32	0	0	1	0	0	0	0	0	75	0	1	0	0	1	0	1	1	118	0	1	1	1	0	1	1	0
33	0	0	1	0	0	0	0	1	76	0	1	0	0	1	1	0	0	119	0	1	1	1	0	1	1	1
34	0	0	1	0	0	0	1	0	77	0	1	0	0	1	1	0	1	120	0	1	1	1	1	0	0	0
35	0	0	1	0	0	0	1	1	78	0	1	0	0	1	1	1	0	121	0	1	1	1	1	0	0	1
36	0	0	1	0	0	1	0	0	79	0	1	0	0	1	1	1	1	122	0	1	1	1	1	0	1	0
37	0	0	1	0	0	1	0	1	80	0	1	0	1	0	0	0	0	123	0	1	1	1	1	0	1	1
38	0	0	1	0	0	1	1	0	81	0	1	0	1	0	0	0	1	124	0	1	1	1	1	1	0	0
39	0	0	1	0	0	1	1	1	82	0	1	0	1	0	0	1	0	125	0	1	1	1	1	1	0	1
40	0	0	1	0	1	0	0	0	83	0	1	0	1	0	0	1	1	126	0	1	1	1	1	1	1	0
41	0	0	1	0	1	0	0	1	84	0	1	0	1	0	1	0	0	127	0	1	1	1	1	1	1	1
42	0	0	1	0	1	0	1	0	85	0	1	0	1	0	1	0	1	<i>1 = Led Acceso</i>								



BENTEL SECURITY S.r.l. - Via Gabbiano, 22 - Z.I. Santa Scolastica - 64013 CORROPOLI - TE - ITALY
Tel.: +39 0861 839060 - Fax: +39 0861 839065
www.bentelsecurity.com - infobentelsecurity@tycoint.com

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: <http://www.bentelsecurity.com/index.php?o=environmental>



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: <http://www.bentelsecurity.com/index.php?o=environmental>