

## INSTALLATION MANUAL

Doc. - Ref. 230-XL

Last modification date : juin 2014

Firmware version : XLP.04.04.05.XXX and later



## Description

The XL control panel is a Videofied wireless alarm system operated by battery or mains power supply. This panel is intended mainly for residential and commercial markets. With the Motion Viewers™ and Videofied® range of products, the XL panel provides video verification in case of intrusion.

The XL panel is a standalone alarm system with an integrated GPRS / GSM communicator for connection to a central station. The panel also features a 105 dB integrated siren, a built-in intercom for audio challenge and a backlit touchpad with an integrated badge reader.

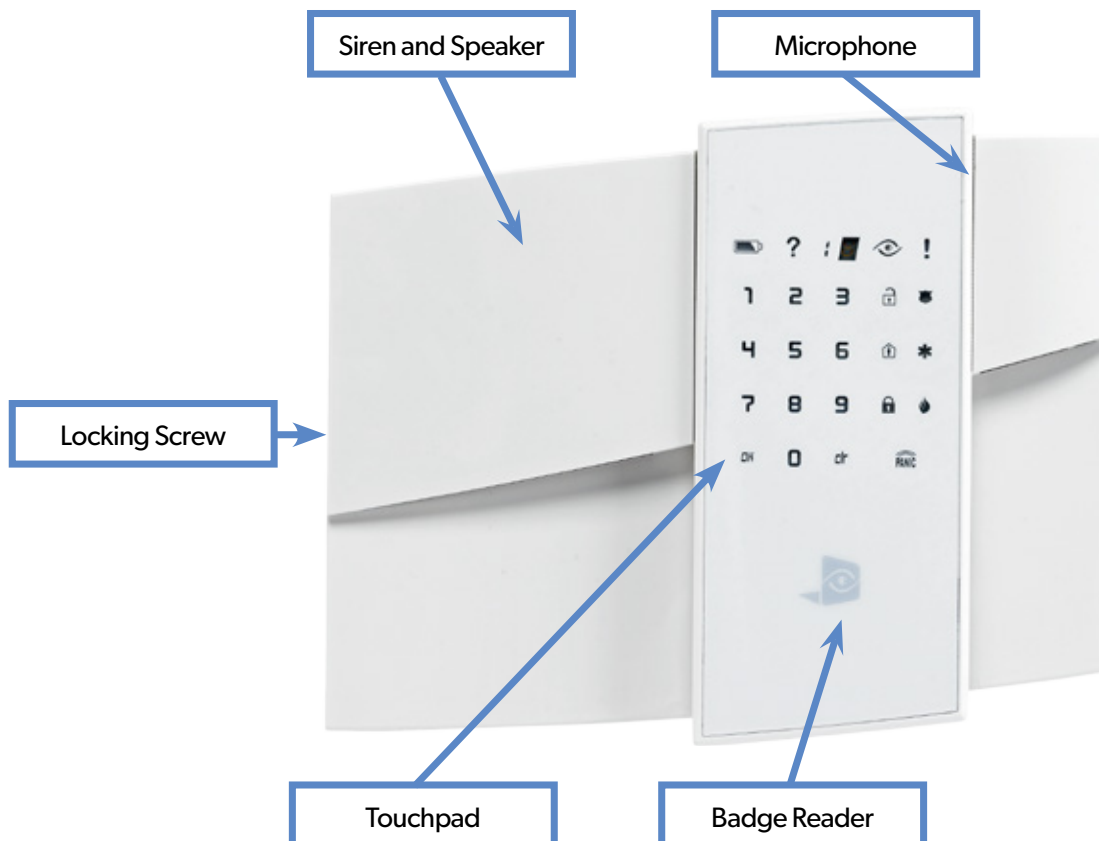
## Wireless Technology

The XL GPRS, along with all Videofied devices, uses the patented S2View®, Interactive, AES Encrypted Wireless technology, providing optimum signal integrity and security.

The bi-directional RF communication path between all devices and the system control panel guarantees high signal reliability. Integrated antennas eliminate protruding wires or rods, both more difficult to install and unsightly to consumers, and potentially troublesome if damaged.

The panel supervises every device (excluding the remote keyfob) to validate current open/close state, tamper condition, serial number, date of manufacture, firmware revision, and battery status.

The RSI VIDEO TECHNOLOGIES team wishes you a good installation.



<b>Introduction.....</b>	<b>2</b>
<b>Summary.....</b>	<b>3</b>
<b>1. XL Panel Setup.....</b>	<b>4</b>
1.1 XL Panel Setup.....	4
1.2 SIM Card Installation.....	4
1.3 XL Assembly.....	4
1.4 Powering and Initialization.....	5
1.5 Pairing the remote keypad.....	5
<b>2. XL Panel Programming.....</b>	<b>6</b>
<b>3. XL Features Guide.....</b>	<b>13</b>
3.1 Get to Access level 4.....	13
3.2 How to Arm/Disarm the System.....	13
3.3 Arming and Siren Mode Configuration.....	14
3.4 Pairing a new keypad without opening the panel.....	14
3.5 Manage badges and access codes.....	15
3.6 Delete the keypad or any other device.....	17
3.7 Read the events log.....	18
3.8 Opening the cover of an installed panel.....	18
3.9 Golden rules.....	18
<b>4. Transmitted Events List.....</b>	<b>19</b>
<b>5. 2G3G Error Codes.....</b>	<b>20</b>
<b>6. Numeric Touchpad.....</b>	<b>21</b>
<b>7. Technical Specifications and Security Notes.....</b>	<b>22</b>

## 1.1 XL Panel Setup

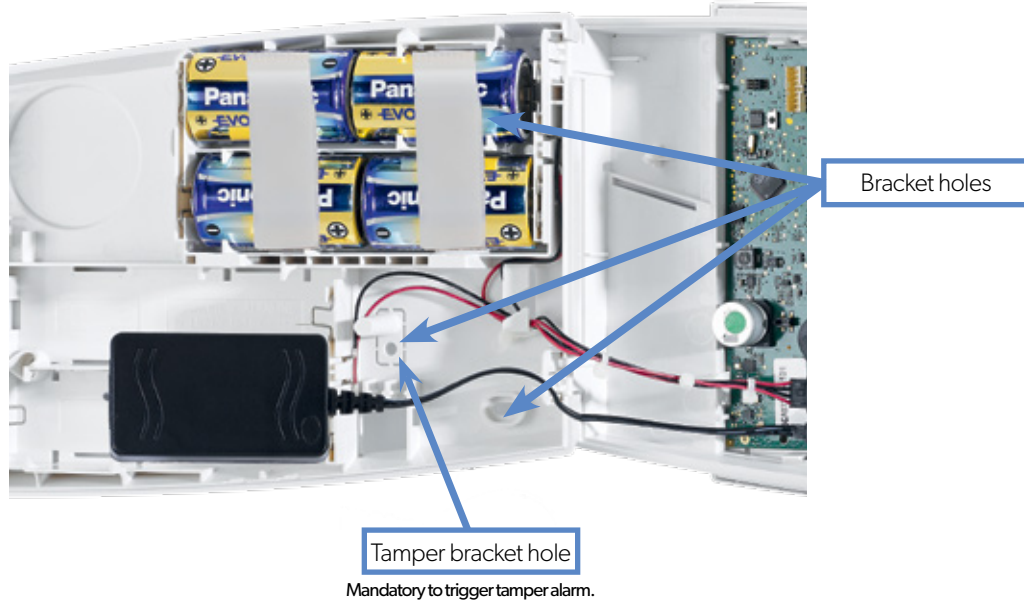
Open the box and remove the cardboard mounting template sitting on top. Place the template on the wall with the arrow pointing upward.

Mark the 5 screw points on the wall and drill pilot holes for wall anchors. Install wall anchors, then attach base of control panel to wall.

XL panel is provided with a reinforcement brace kit including 4 velcro straps. Insert the 4 straps in the back casing, then mount the casing on the wall. (The EN50131 standard requires the installation of this brace kit).

A screw must be used in the tamper protection hole for the panel wall tamper to function correctly.

Insert the Alkaline D type batteries as shown; ensuring the polarity matches the labeling on the inside of the battery cover.



## 1.2 SIM Card Installation

Before removing the front cover from its box, put the SIM card on the plastic base (Take care to respect the right direction).

**DO NOT** insert or remove the SIM card while the panel is powered.



## 1.3 XL Assembly

Connect the panel's face to its base by carefully placing the hinges on it.

2 locking clips are provided to strengthen the hinges: position each locking clip before locking them completely (The EN50131 standard requires the installation of these locking clips).





### 1.4 Powering and Initialization

- The panel is powered by a mains power supply with 4 LR20 alkaline backup batteries (Option 1 recommended) or by 8 LR20 alkaline batteries (Option 2). When the panel is powered, it will beep and the built-in keypad should start flashing.
- Press and hold the PROGRAMMING BUTTON for 10 seconds, until the panel beep again and the panel keypad lights up.
- The panel is now reset, a CMA, XMA or XMB has to be enrolled to configure the panel.

*THE CONTROL PANEL **MUST BE CONNECTED TO AN EXTERNAL POWER SUPPLY (OPTION 1)** WHEN USING THE **RINGTONE FEATURE** OR **SMARTPHONE APP**.*

#### Option 1



#### Option 2



### 1.5 Pairing the remote keypad

- Press briefly the XL programming button and release for the enrollment of a programming keypad. The display should start spinning.
- Insert all **LS14500 Lithium batteries** into the keypad.
- **Do not mount the keypad.** It will display one of the following screens:

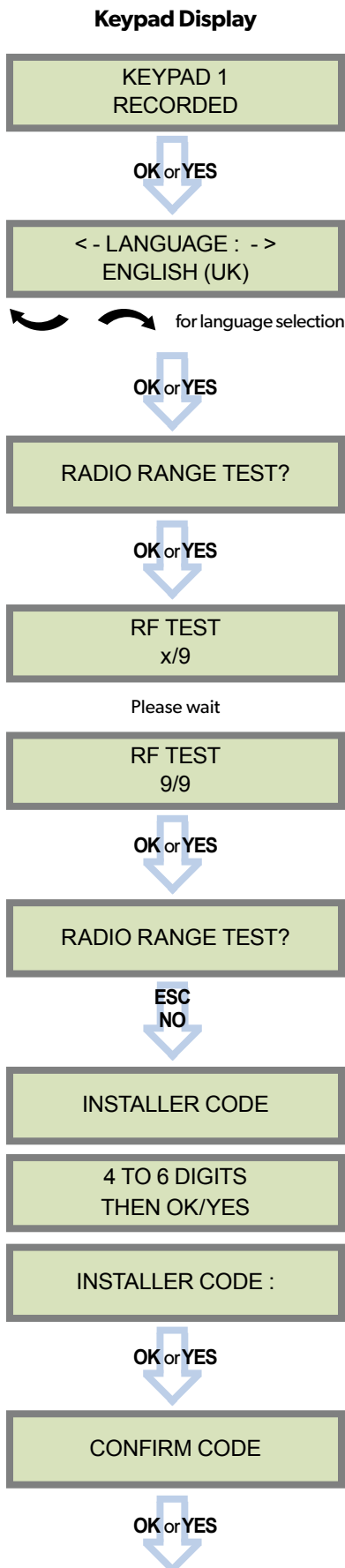
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videofied.com

or

<=====XX=====>

- **Press on both CLR and ESC NO keys at the same time** and release. The indicator LED on the keypad will blink rapidly. Wait for the keypad to pair.
- **If the keypad doesn't pair up with the panel** and shows «XX», it certainly means that it is still paired to another system and needs to be reset. Take the batteries out, and press repeatedly on the keypad tamper switch. Then proceed to the above steps.





### Actions and comments

The system can also be programmed in: french, italian, german, dutch, spanish, swedish, portuguese, danish, czech and polish.

The language can be changed at any time once the panel is programmed in the MAINTENANCE menu.

The Radio Range test must be run during the device learning process in order to ensure proper pairing with the control panel. This test measures the strength of communication between the device and the control panel. The keypad will display a real time radio range value on a scale of 9.

To receive the most accurate results you must run the radio range test for at least 30 seconds.

**Result must be 8 out of 9 or better for reliable transmission.**

Using the Alphanumeric Keypad, enter the Installer Code of your choice.

The Installer Code will be used for all future maintenance and configuration.

**This code is important to keep track of.**

**There is no back door or Default codes to the system.**

Please refer to the restriction rule for codes (Chapter 3.5). Some codes are already used by default and therefore cannot be used.

### Keypad display

### Actions and comments

CODE NAME :

OK or YES

ACCESS 1  
REGISTERED

Please wait

ADJUSTING DATE  
AND TIME

DATE (YEAR):  
12 / /

To set the year

OK or YES

DATE (MONTH):  
13/01/

To set the month

OK or YES

You may proceed in the same way for:  
**Day, Hour and Minutes.**

13/10/14 10:47  
ENTRY COMPLETE !

CONNECTED TO  
MONITOR. STATION?

OK or YES

ACCOUNT NUMBER :

ACCOUNT NUMBER :  
567001

OK or YES

ESC  
NO

You may name the installer code using the Alphanumeric Keypad.

If using automatic setting (called installer default list), enter the name of the list.

**Warning** : If the wrong installers list name is used it cannot be set later, the system must be defaulted.

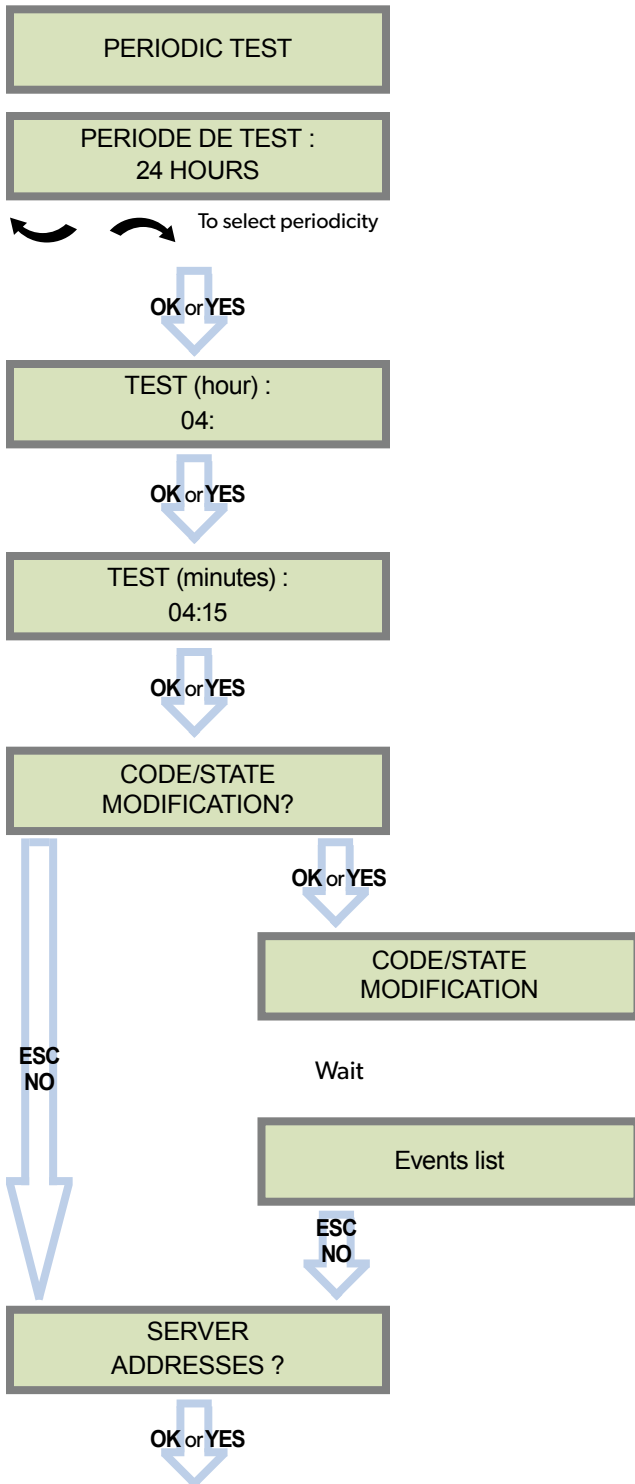
Leaving the name blank by pressing **ESC NO**, it will be named 'ACCESS 1' by default.

Use the Alphanumeric Keypad to enter in a 4-8 digit account number provided by the Central Station.



### Keypad display

### Actions and comments



Test Periodicity: 1 hour, 12 hours, 24 hours, 48 hours, 7 days or no tests.

**We suggest a 24 hours periodic test call.**

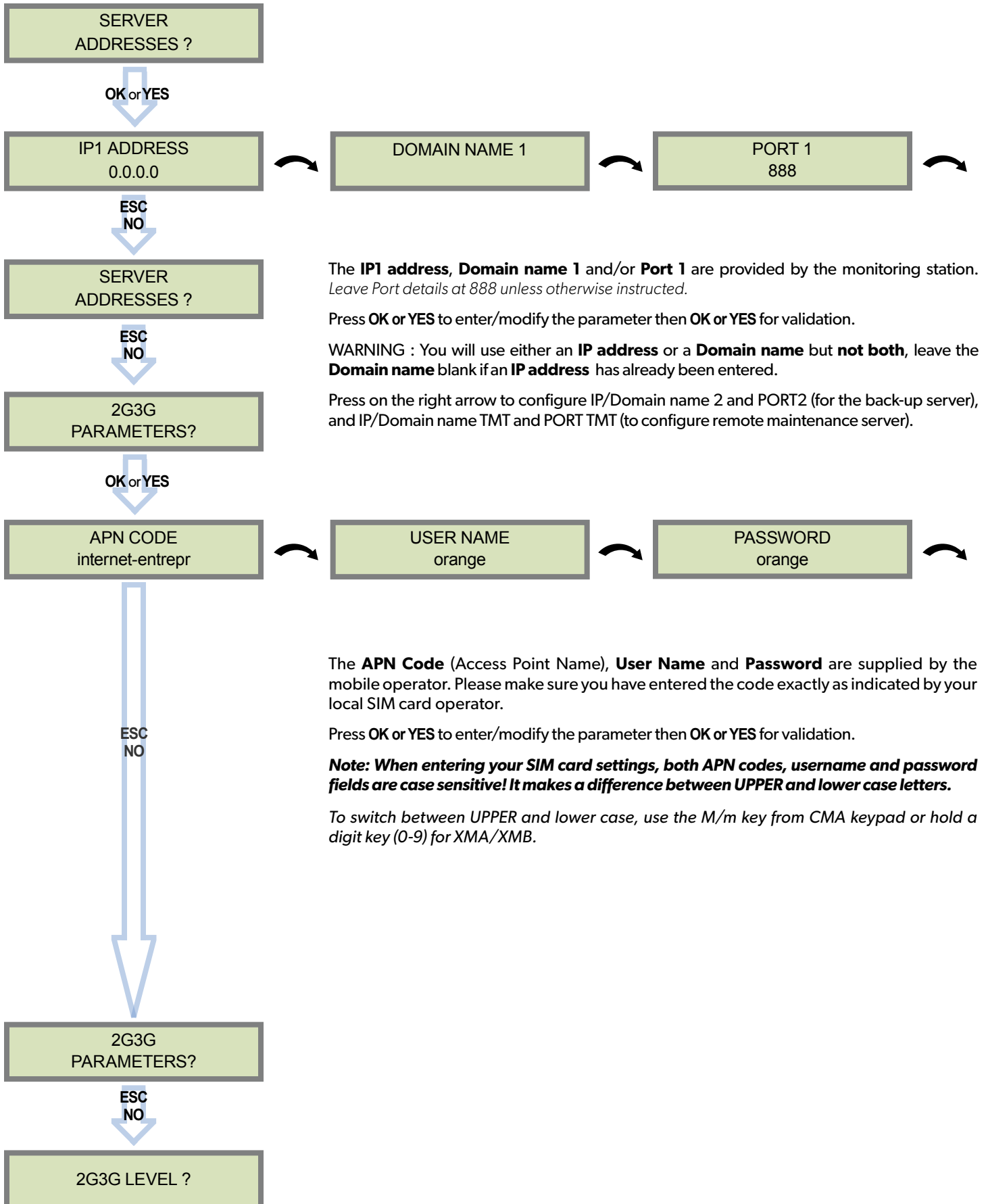
The CODE/STATE MODIF. menu is to configure the transmitted events to the monitoring station, use the arrow keys to toggle between events and OK or YES to modify.

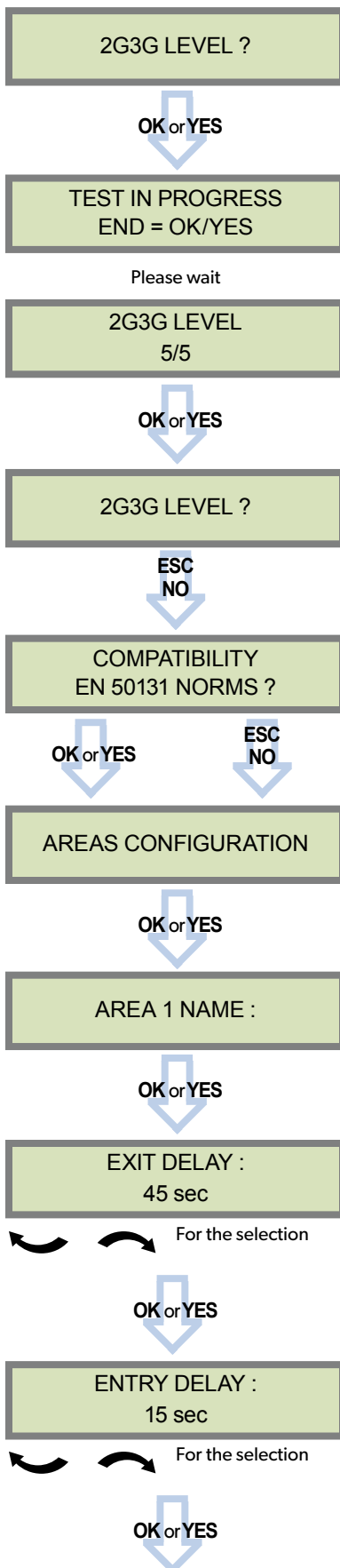
ALARM: event transmitted upon occurrence.

ALARM/END: event is transmitted on occurrence and on event restoral.

NOT TRANSMITTED: event is not transmitted, however it will appear on the keypad.

**Please liaise with your Monitoring Station to ensure that the requested events to transmit are correctly set.**





Once the 2G3G test completed, the keypad will display one of the following results :

- A level between 0/5 and 5/5.

- A GPRS Error code (please see Chapter 5 : 2G3G errors codes and contact your technical support).

If the screens shuts down, press any key to light it up except **OK or YES, ESC NO** ou **CLR**.

The 2G3G level test can last several minutes. Do not interrupt the test or remove the SIM card during the test.

**IMPORTANT : Videofied will require a 3/5 grade or better for reliable transmission of Video alarms.**

For full compatibility with EN50131, press **OK or YES**.

Otherwise, press **ESC NO**.

Press **ESC NO** to default the area names.

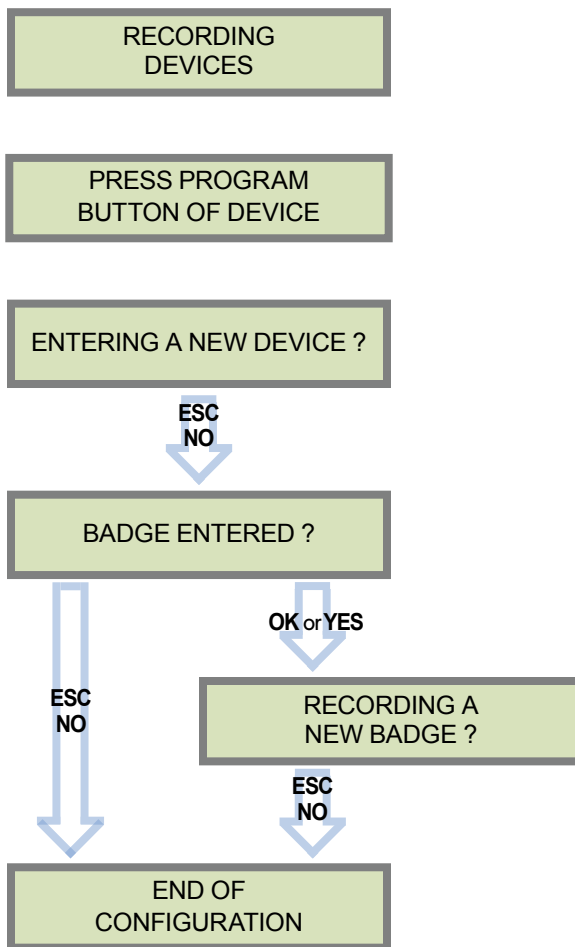
Enter the name of the area 1 and **OK or YES**.

Repeat the procedure for areas 2,3 and 4.

For further details, please refer to chapter 3.3.

Other values are available: 2 min, 1 min, 45 sec.

Other values are available: 2 minutes, 1 minutes, 45 seconds,30 seconds or 15 seconds.



Each device has a unique programming button or a specific manipulation. Please refer to the Installation Sheet for the device you would like to program.

Please check the radio level of each device on its final location. The result must be 8 out of 9 as a minimum (Please refer to the Radio Range section, page 8 for further details).

Each system can embrace a maximum of 19 devices, **programming keypad included.**

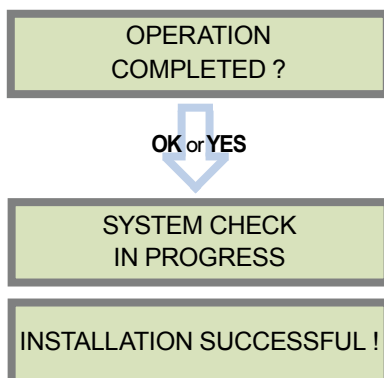
Press **OK** or **YES** to enter a new device or **ESC NO** to move to the next step.

After initial programming has been completed, the system cannot be armed or disarmed until a user code or badge is entered (the installer code cannot arm or disarm the system).

Press **OK** or **YES** to register one or more badges. **ESC NO** if you're not using any badges.

If you wish to use an user code, please skip this step and when initial programming is completed go to the BADGES/ACCESS CODES menu (please refer to chapter 4.4 for further details).

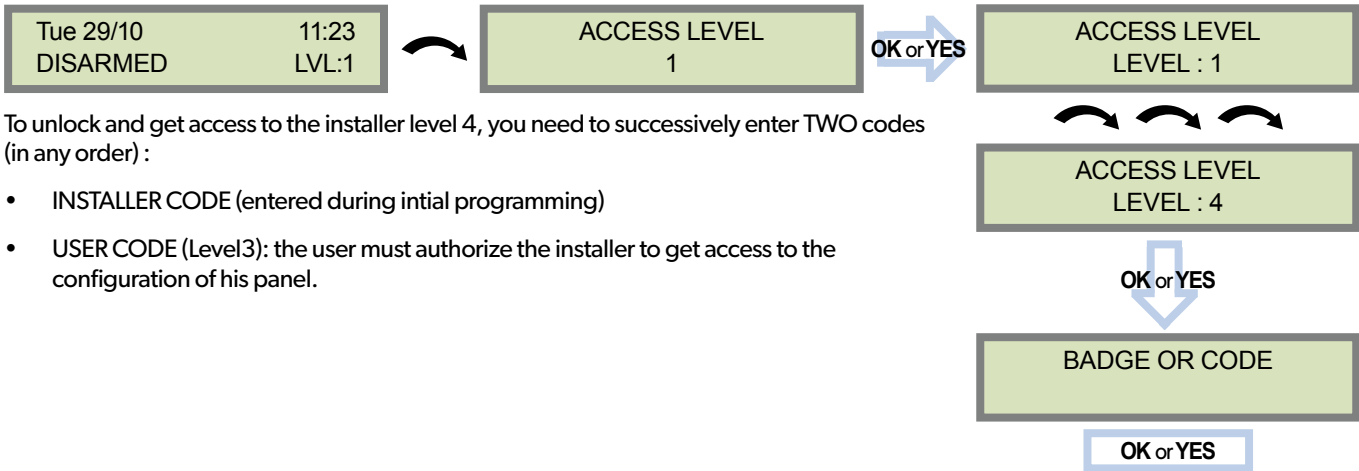
Badges and codes are limited to 19 for user (level 2 or 3) + 1 installer code.



Before completing programming make sure that no device is tampered. Each device must be closed and its LED indicator shall be turned off.

After initial programming has been completed, make use of the menu overview document (available on our technical support website), to see full programming options.

### 3.1 Get to Access level 4












To unlock and get access to the installer level 4, you need to successively enter TWO codes (in any order) :

- INSTALLER CODE (entered during initial programming)
- USER CODE (Level3): the user must authorize the installer to get access to the configuration of his panel.

### 3.2 How to Arm/Disarm the System

When in standby mode, the system can be armed with the embedded or remote keypad, the remote keyfob and/or the embedded or remote badge reader.

	With integrated keypad	With remote keypad	With remote badge reader	With remote keyfob
Full arming with badge	Present your badge on the badge reader located behind the panel logo	Present your badge on the keypad (XMB model only)	Present your badge on the badge reader	N/A
Full arming with user code	Enter your user code and press  or 	Enter your user code and press OK or YES	N/A	N/A
Special Arming 1	Enter your user code and press 	Press  /  enter your user code and press OK or YES	N/A	Press 
Special Arming 2	N/A	Press  /  press OK or YES and enter your user code	N/A	Press 

## 3.3 Arming and Siren Mode Configuration

- Use to go to menu :

**CONFIGURATION (LEVEL 4) > SPECIAL ARMING MODES > FULL ARM, SP1 or SP2**

Use direction arrows to select the arming mode you want to modify and **OK / YES**.

- There is 3 different arming modes :**

**FULL ARM :** Arming of all areas and all devices. Use a badge or a user code and press / on the panel keypad, **OK /** on the XMA/XMB keypad or the **YES** key on the CMA keypad.

**SP1 :** Partial Arming (1) is enabled by entering the user code and pressing on the panel keypad, on the XMA/XMB keypad, the key on the CMA keypad or on the remote keyfob RC.

**SP2 :** Partial Arming (2) is unavailable on the XL panel keypad. It is enabled by pressing the key on a XMA/XMB keypad on a CMA keypad, or on the remote keyfob RC.

For each arming mode, it is possible to specify how each of the 4 areas will be armed and how the system will behave during an alarm.

Areas :     1   2   3   4

State :     A   A   A   A

Each time you press the corresponding number, the system will toggle the arming state for the respective area.

Press **OK / YES** after this configuration step. The system will then display what siren mode will be in effect for this special profile. Select the siren mode using the direction arrows then press **OK / YES**.

<b>A</b>	<b>Armed</b>
<b>D</b>	<b>Disarmed</b>
<b>P</b>	<b>Perimeter</b> (by default : all opening contacts*)
<b>E</b>	<b>External</b> (by default : all opening contacts with external access*)

<b>Siren</b>	Immediate triggering of all sirens
<b>Delay Beeps</b>	Entry/Exit delay beeps, then triggering of all sirens
<b>Silent</b>	No Sirens, No Beeps
<b>Without Siren</b>	Beeps on the keypad only

\* You can set your devices as : External, Perimeter, ou External +Perimeter. Please go to the menu:

**CONFIGURATION (LVL 4) > AREAS AND DEVICES > DEVICES > DEVICES CONFIGURATION > DEVICE TYPE**

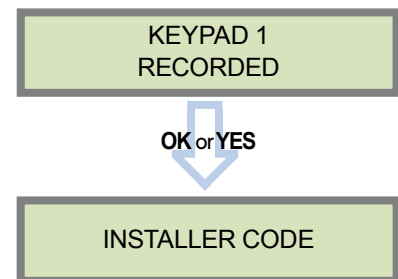
## 3.4 Pairing a new keypad without opening the panel

Wake the integrated keypad by placing your palms over it.

Enter the pairing mode by pressing the key for 3 seconds, the numerical touchpad will blink then enter 000000 and press the display will start spinning, confirming that you entered the programming mode.

Install the batteries in the CMA or XMA keypad. Simultaneously press and release the **CLR** and **ESC NO** buttons on the keypad. The red LED indicator light will blink rapidly, then twice slowly. The keypad display will change to **KEYPAD 1 RECORDED**. Press **OK / YES** to acknowledge this, then type the installer code for the system followed then press **OK / YES** again.

This keypad learning procedure is only used when connecting a CMA or XMA keypad to the XL control panel after initial programming.



Enter the installer code and :  
**OK or YES**



### 3.5 Manage badges and access codes

#### Access Level

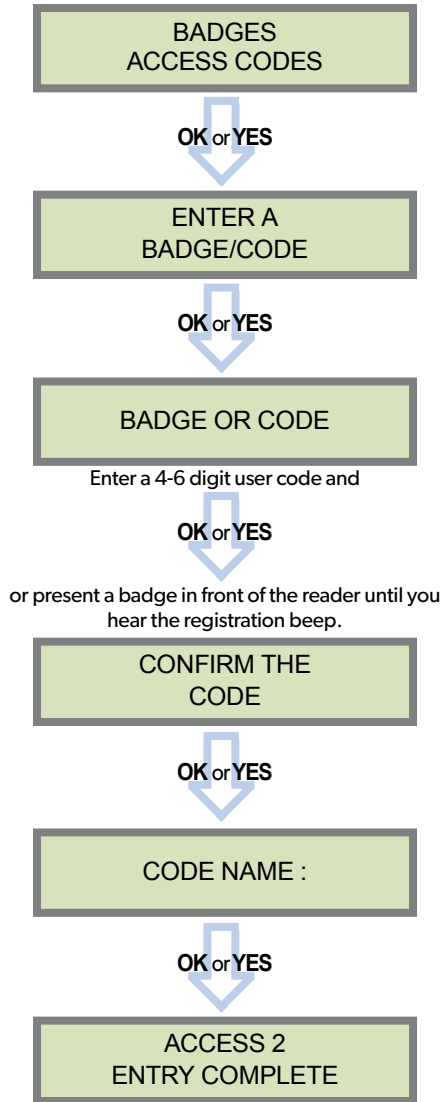
Access Level	Definition & Rights
LVL 1	Standby Level
LVL 2	<b>Restricted USER level</b> , where it is only possible to arm/disarm the system.
LVL 3	<b>USER level</b> , where it is possible to arm/disarm the system, check the event log, test the devices. Modifications of the settings are not possible at this level. User <b>Level 3</b> can create <b>Level 2</b> or <b>Level 3</b> access codes or badges.
LVL 4	<b>INSTALLER level</b> , where it is possible to modify the setup of the panel. To access <b>Level 4</b> , the approval of a <b>Level 3</b> or <b>Level 2</b> user is required. Installer <b>Level 4</b> can create the first <b>Level 3</b> access code only.

Codes and badges get rights access to one of the 4 available levels of access.

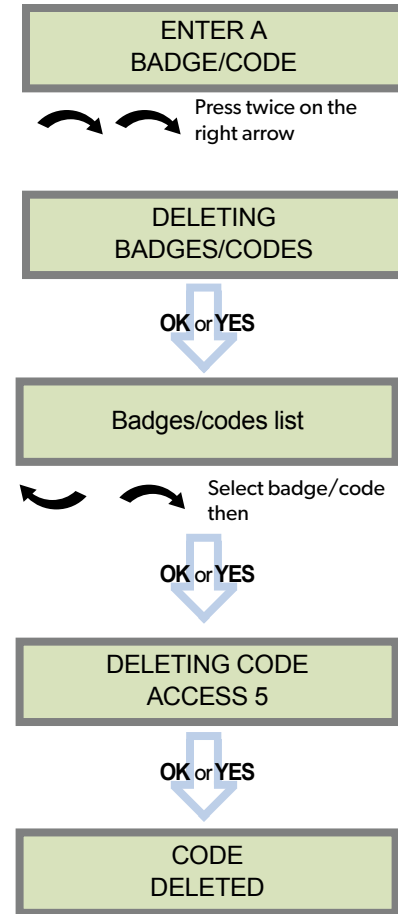
#### How to return to the LVL1?

- After 1 min of no use of the keypad and no tests running, the display returns to the standby display and LVL1.
- When standby display, if the **ESC NO** key is held during 5s, the level is changed to LVL1.

**Enter a new end user Badge/Code**



**Delete an end user Badge/Code**



**Reserved Codes**

Up to 19 codes (or badges) can be registered into the panel with the engineer code.

A code has 4 to 6 digits (0 to 9).

The table presents the **reserved** code possibilities that cannot be used.

Those codes are used for maintenance or as panic/duress codes.

**A total of 186 codes are forbidden.**

Reserved Codes
000000
From 9998 to 9999
From 99998 to 99999
From 999898 to 999999
From 314157 to 314159
All user codes +1
All user codes +2
All user codes -1
All user codes -2

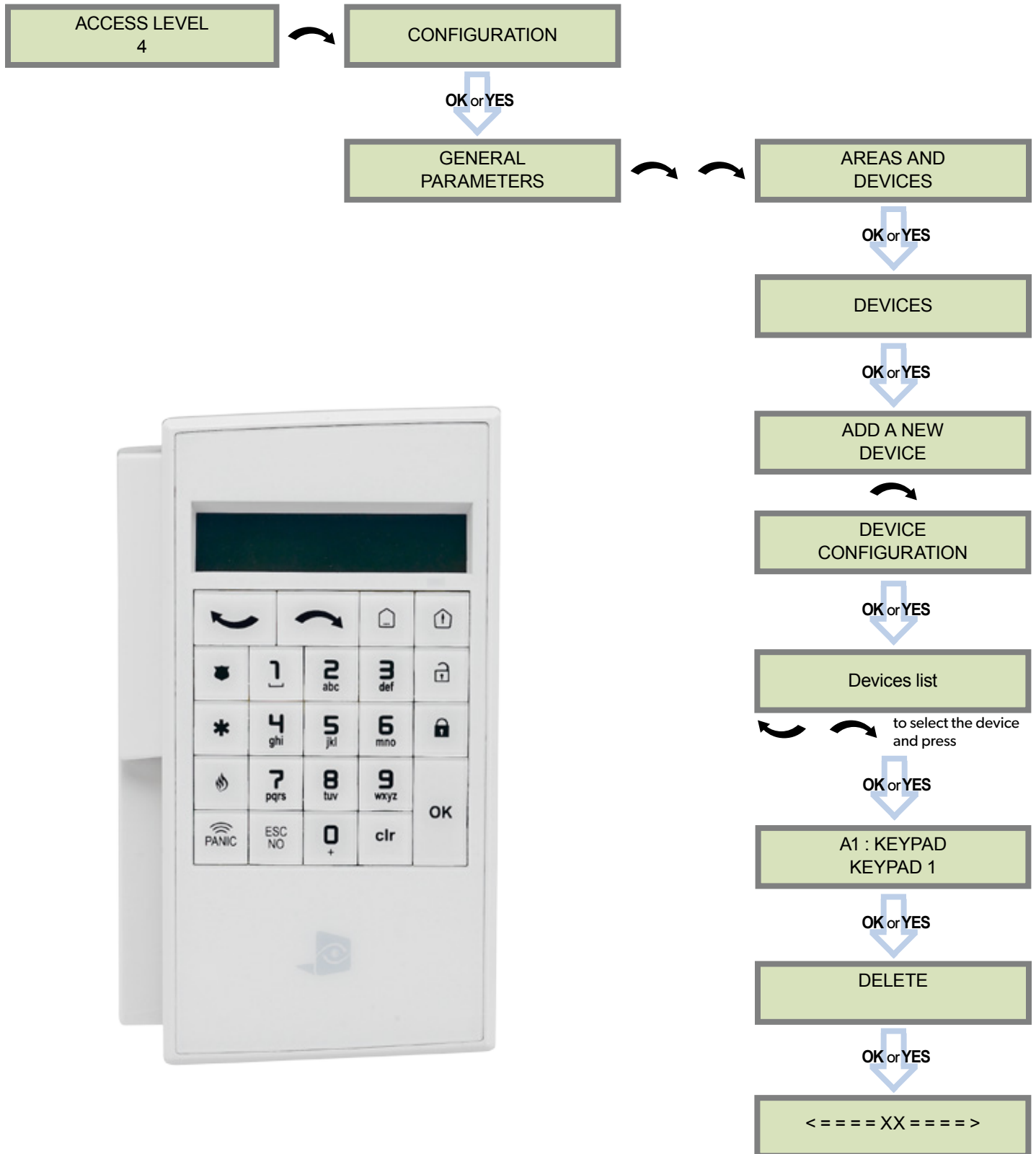
When a code is created (1000 for example), the 2 next codes and previous codes (0998, 0999, 1001 and 1002) will be automatically reserved.

The +1 code (1001) is used for disarming under duress.

The +2 code (1002) is used for panic.

The -1 and -2 codes (0998 et 0999) are reserved to prevent conflicts when creating a new user code.

3..6 Delete the keypad or any other device

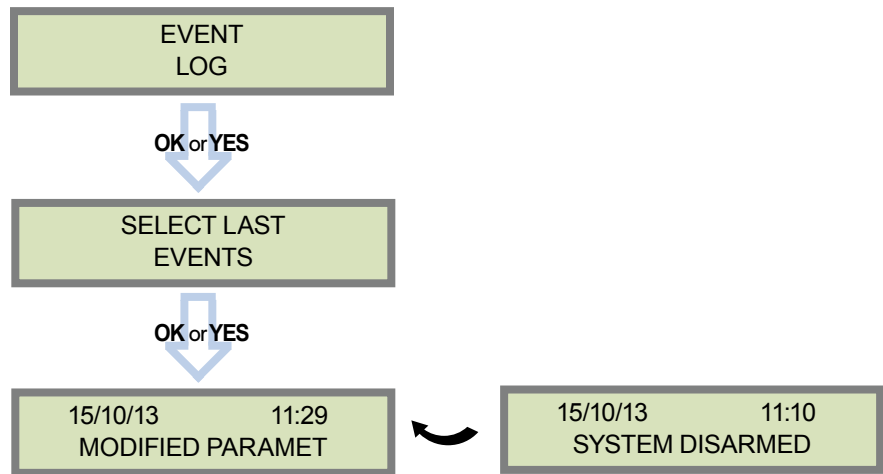


You can now remove the batteries from the device

### 3.7 Read the event log

When user disarms the system, the XL or keypad indicates the last event. Refer to chapter 6 to know the meaning of each symbol.

In case of the user needs to read the full log file, use the keypad to go in EVENT LOG, press **OK** or **YES** on SELECT LAST EVENTS and use arrow to list the events.



Press **OK** or **YES** for more information about an event

### 3.8 Opening the cover of an installed panel

Unscrew the locking screw on the left-hand side of the panel, using a paper clip push through the opening hole to open the panel's cover.

### 3.9 Golden Rules

- 1 Area 1 is always **delayed**. When you register a keypad or a badge reader into an area, that area will automatically be delayed.
- 2 **Never position** a panel next to a **high voltage electrical cabinet**.
- 3 Press CLR to erase a typing mistake.
- 4 Never register the same device twice (delete from the system first).
- 5 Registration of **up to 19 devices** (including the keypad).
- 6 Respect indoor infrared devices installation height (**2m10 to 2m30**).
- 7 Outdoor cameras have to be installed at **2m60 to 3 meters height**. Those devices need to protect an access and not a zone.
- 8 Do not fix the keypad at the beginning of the installation as it will need to be portable during programming.
- 9 **Always clean** the lens of the cameras after the installation (Use a clean, dry cloth, taking care not to exert pressure on the lens).
- 10 To switch between UPPER and lower case, use the M/m key from the CMA keypad or hold a digit key (0 to 9) for XMA/XMB.
- 11 Internal components are fragile, be careful opening or closing the panel.
- 12 LCD screen goes dark after 30 seconds of inactivity, press an arrow or numeric key to light it up.
- 13 Use only batteries provided by Videofied (siren : Alkaline batteries).
- 14 Infrared detectors should never be installed in stairs or close to stairs (false alarm risks).
- 15 A colon display [:] means that the parameter can be changed.

The XL panel can be configured to enable or disable the transmission of events like alarms or defaults.

The installer can modify the default sending settings for those events, although it will end the EN50131 standard compliance.

These are the default transmitted events :	The following events are not sent by default :
DEVICE (intrusions) ALERT (Panic Buttons) PANEL LOW BATT. TAMPER DEVICE LOW BATT. PERIODIC TEST DURESS CODE FIRE MEDICAL ASSIST. ETHERNET CABLE AC POWER LOSS (AC Power supply)	PANEL RESET PHONELINE FAULT RADIO JAMMING SUPERVISION 5 WRONG CODES ALARM CANCEL ARM/DISARM (On/Off) ZONE BYPASS (bypass function enabling/dsiabling) SWINGER SHUTDOWN

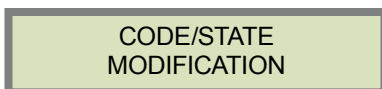
There is 3 different transmission states :
<b>ALARM</b> : event transmitted upon occurrence
<b>ALARM/END</b> : event is transmitted on occurrence and on event restoral
<b>NOT TRANSMITTED</b> : event is not transmitted, however it will appear on the keypad.

**Example :**

If the monitoring station system is set to receive arms and disarms, the **ARM / DISARM** parameter must be changed from **NOT TRANSMITTED** to **ALARM / END**.

**How to modify the transmission state**

- **At initial programming, right after the PERIODIC TEST CALL step:**



Press OK or YES to access **EVENT TRANS. MODIFICATION** menu.

- **After initial programming, using a remote keypad :**

Use the arrows   to access :

**CONFIGURATION (level 4) > CONFIGURATION MONITOR. STATION > MONITORING PARAMETERS > EVENT TRANS. MODIFICATION**

Then use the arrows   to determine the event to modify. Press OK or YES to edit.

**IMPORTANT:** The PIN of the SIM card has to be deactivated or 0000.

The following is a list of error codes that can appear after the 2G3G test.

2G3G LEVEL :  
ERROR XXX

In case of 2G3G (GPRS) errors during initial programming, we strongly suggest to continue with the installation and perform the 2G3G (GPRS) level test again once achieved.

Codes	Errors
<b>03 ou 04</b>	No network coverage or no SIM card inserted
<b>003</b>	SIM card not detected/not inserted
<b>010</b>	SIM not inserted
<b>011</b>	PIN code necessary -> <i>PIN code must be deactivated</i>
<b>012</b>	PUK code necessary, SIM card blocked
<b>013</b>	Default SIM card
<b>014</b>	SIM card busy
<b>015</b>	Error on SIM
<b>030, 043, 057, 102, 132, ...</b>	<ul style="list-style-type: none"> <li>No network coverage</li> <li>Typographical error in the APN Code, username, password</li> <li>SIM card not activated</li> </ul>

This error checklist is provided for information purposes only.

**This is not a comprehensive list**, but it is representative of most cases. Some events or codes are subject to change by SIM card operators.

However, the GPRS level test errors results in the majority of cases have the following causes :

- **SIM Card activation Delay:**

Some operators require an additional delay up to 48 hours to activate automatic data transmission. Please check with your operator prior to installation.

- **APN CODE, USERNAME and PASSWORD :**

The GPRS (2G3G) settings are supplied by the operator. Please make sure you have entered the code exactly as indicated by your local SIM card operator.






Note: When entering your SIM card settings, both APN codes, username and password fields are case sensitive! (It makes a difference between UPPER and lower case letters) .





*To switch between UPPER and lower case, use the M/m key from CMA keypad or hold a digit key (0-9) for XMA/XMB.*






- **Insufficient GPRS Network:**

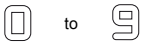


When the panel is unable to find any signal, proceed to GPRS level test in another location on site. You can also find the network state or condition of use by directly contacting your local operator.



Symbols for events	Meaning
	<ul style="list-style-type: none"> <li>• When green : All batteries (panel + devices) are OK.</li> <li>• When red : At least one device(panel or device) has low batteries (the panel shows the ID number).</li> </ul>
	Detector triggered during the arming process or tamper detection
	<p>Used to identify :</p> <p>Device ID (0 for the panel and value from 1 to 19 for other devices) for tamper, intrusion or other troubles , « E » for panic button pressed).</p> <p>“r” for radio jamming                      “P” for Police alert  “F” for fire (smoke detection)            “E” for medical assistance  “J” for jamming                                “d” for duress code  « C » wrong code entered.</p>
	Intrusion detected.
	For other troubles and for panic alerts.

Symbols for events	Meaning
	Used to disarm the system (once the user code has been entered).
	<ul style="list-style-type: none"> <li>• Arm the system in special mode (SP1) once the user code has been entered.</li> <li>• Blinks when the system is armed in special mode (SP1).</li> </ul>
	<ul style="list-style-type: none"> <li>• Arm the system in full arm mode (normal mode) once the user code has been entered.</li> <li>• Blinks when the system is armed.</li> </ul>
	Arm the system in full arm mode (normal mode) once the user code has been entered.

Symbols for events	Meaning
	Must be pressed and held 3 seconds before pressing the panic buttons.
	When lighted, press on for Police panic call to the monitoring station.
	When lighted, press on for Medical panic call to the monitoring station.
	When lighted, press on for Fire panic call to the monitoring station.
	Press on to cancel the PANIC call.

Symbols for events	Meaning
	To enter a code.
	To confirm the input.
	To cancel the last input.

In order to save the batteries, the keypad turns off automatically after a few seconds of non-activity. Before entering the code, you must place your hand flat on the numeric keypad. It lights up and then you can use it.

## Security notes / (FR) Notes de sécurité / (DE) Hinweise zur Sicherheit

### English

- Remove battery before any maintenance!
- **WARNING**, there is a risk of explosion if a battery is replaced by an incorrect type!
- Observe polarity when setting up the batteries!
- Do not throw used batteries! Bring them to your installer or a collection point.

### Français

- Retirez les piles avant toute opération de maintenance!
- Attention ! Il y a un risque d'explosion si l'une des piles utilisées est remplacée par une pile de type incorrect!
- Respectez la polarité lors de la mise en place des piles!
- Ne jetez pas les piles usagées! Ramenez-les à votre installateur ou à un point de collecte spécialisé.

### Deutsch

- Batterien vor jeglichen Wartungsarbeiten entfernen!
- Vorsicht, es besteht Explosionsgefahr, wenn eine Batterie durch eine Batterie falschen Typs ersetzt wird!
- Achten Sie beim Einsetzen der Batterien auf die Polung!
- Entsorgen Sie Batterien nicht im normalen Haushaltsmüll! Bringen Sie Ihre verbrauchten Batterien zu den öffentlichen Sammelstellen.

### Operating Frequency

868/915/920 MHz

### Required Voltage

Nominal voltage = 6 V

Low battery limit = 4.2 V

### Powering

Type B : 1 external power supply with battery backup 4x 1.5 Alkaline D cells (Option 1)  
or

Type C: 8x 1,5 V D Alkaline batteries (Option 2)

### Current consumption

Standby (1h average) = 420 µA ; Max = 1,3 A

### Operating temperature

-10° / +40° C (-14° / +104° F)

### Maximum relative humidity

75%, without condensing

### Dimensions (LxWxD)

225 mm x 180 mm x 55 mm (9 in. x 7 in. x 2-1/6 in)

### Weight

520 g (without batteries)

### Approvals



EN50131-1: 2006; + A1: 2009

Grade 2 - Class II

*The panel must be used with a EN50131-3 certified keypad (CMA, XMA or XMB)*

EN50131-3: 2009

Grade 2 - ACE Type B

EN50131-4: 2009

Grade 2 - Siren type W

EN50131-5-3: 2005; + A1: 2009

Grade 2

EN50131-6: 2008

Grade 2 - Type C

EN50130-4: 1995; + A1: 1998; + A2: 2003

EN50130-5: 1998

Class II

### Embedded

- Touchpad
  - Minimum number of variations PIN = 1109814
  - Number of forbidden PIN codes = 186 (See page 16)
  - Number of invalid passcode entries before disabling = 5
  - Waiting for input code = 60 s
  - Blocking time after 5 attempts invalid = 90 s
  - Battery life support memory = nd (Using flash memory)
- Badge Reader
  - ISO/IEC 14443A
- Siren
  - 15 min maximum duration
  - Indoor use only
  - Can be self-powered
  - 105 dB (A) at 1 meter

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