USER'S GUIDE
Altea 3 BUS CONTROL UNIT

Update : 7/2/11

ALTEA 3 - BUS
and ALTEA 3 - BUS - DS
option alarm report

GB

Thank you to have granted your confidence to us by buying a power station of alarm SAAA. This product was manufactured in the respect of the highest standards of quality. For a better use of your power station "Altea 3 BUS", we advise you to read the instructions attentively.
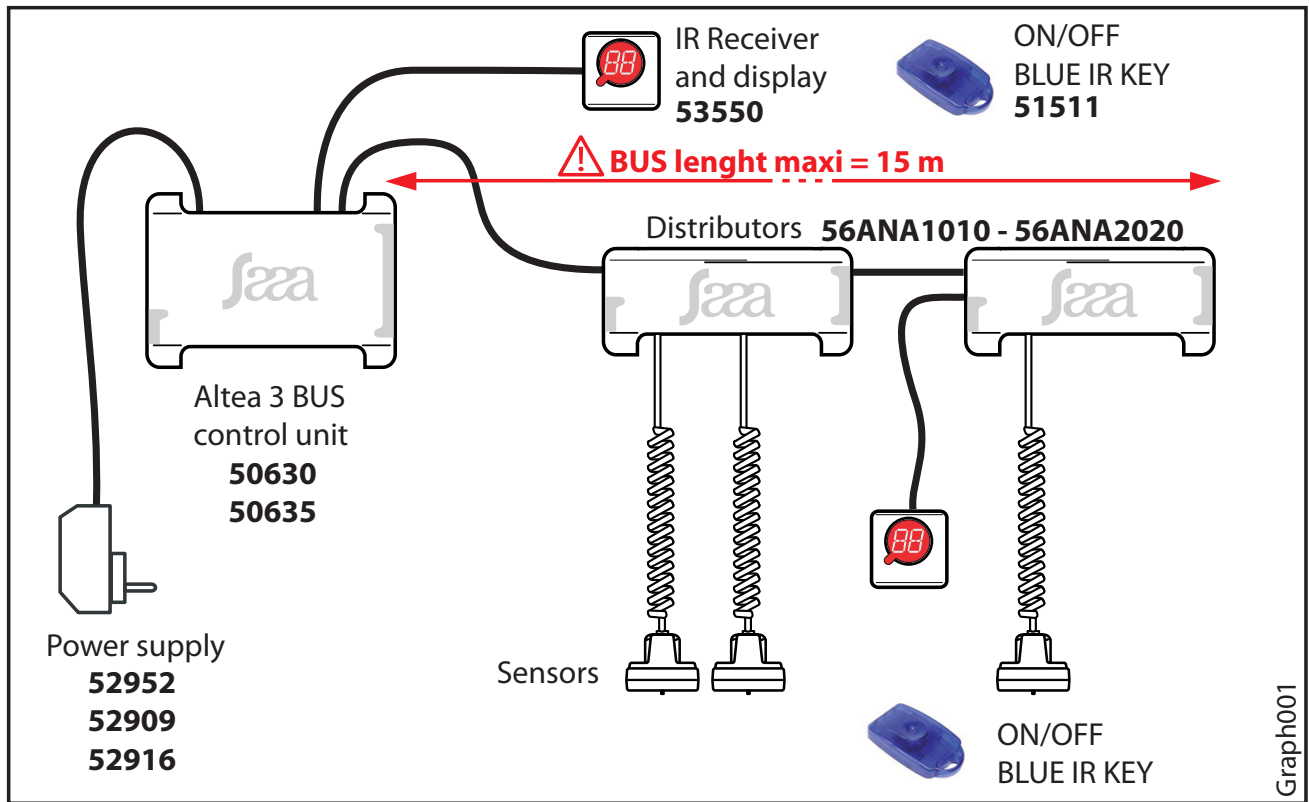
You can help protect the environment!.
Please remember to respect the local regulations: hand in the non-working electrical equipments to an appropriate waste diposal center. take out the batteries before scrapping the product.
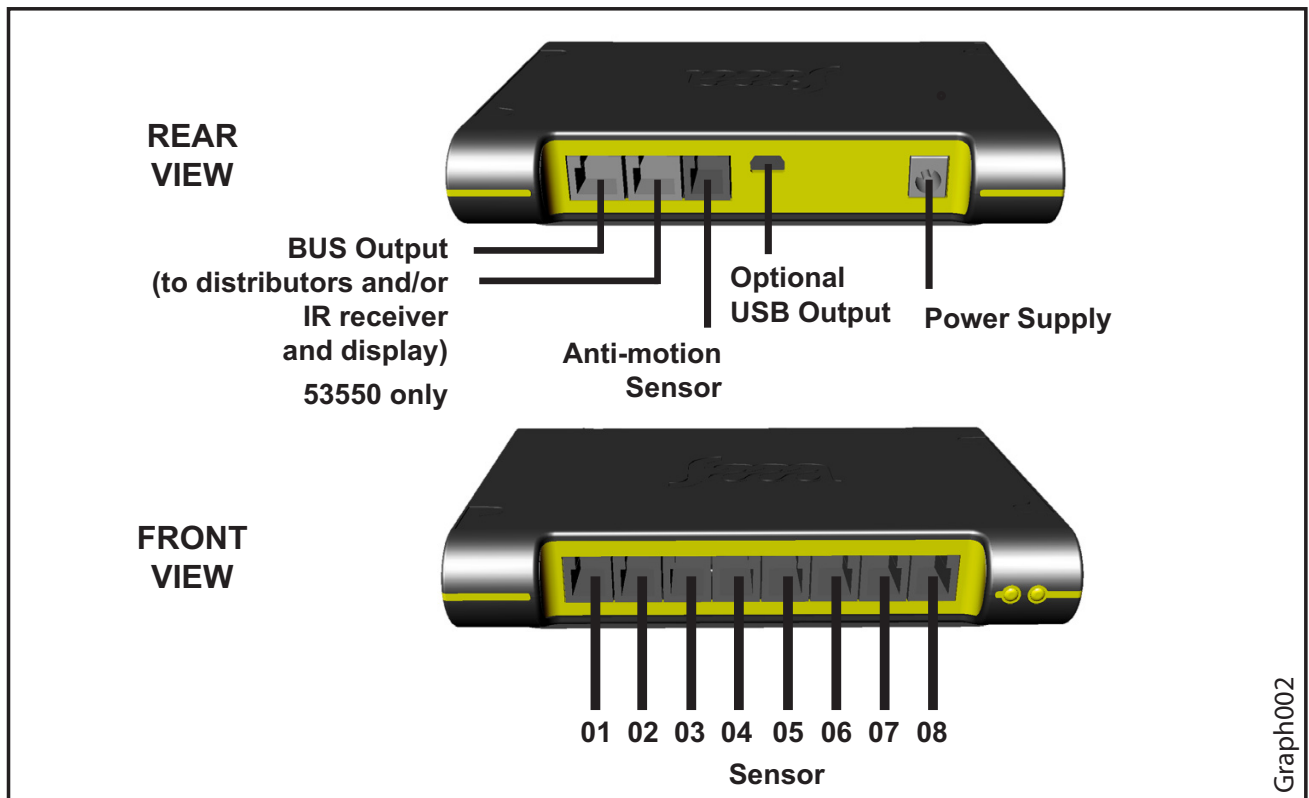
1.0/ Getting Started

1.1/ General cablage

IR Receiver and display
53550

ON/OFF
BLUE IR KEY
51511

⚠ **BUS lenght maxi = 15 m**

Distributors **56ANA1010 - 56ANA2020**

Altea 3 BUS control unit
50630
50635

Power supply
52952
52909
52916

Sensors

ON/OFF
BLUE IR KEY

Graph001

1.2/ Altea 3 connections (front and rear views)

REAR VIEW

BUS Output
(to distributors and/or
IR receiver
and display)
53550 only

Anti-motion
Sensor

Optional
USB Output

Power Supply

FRONT VIEW

01 02 03 04 05 06 07 08
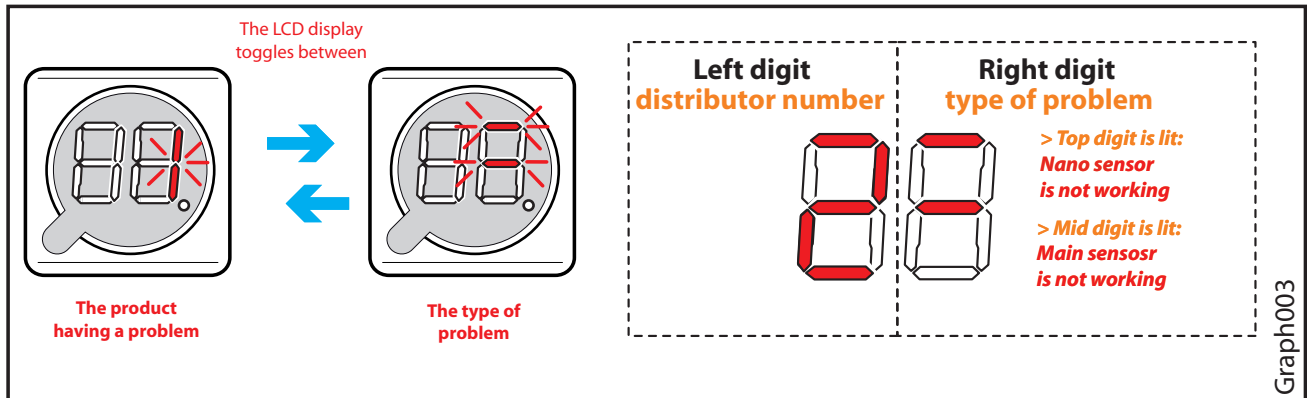**Sensor**

Graph002

2.0/ The IR receiver / LCD display

The display consists of two 8 segments digit and a dot. It will provide information on your installation, how it is configured, and will assist in solving problems. This BUS C.U does not work with the 53500 I.R receiver

2.1/ Information provided by the 8 segments digit 53550:

On some occasions (described later on in this user's guide), the display will be toggling between a number (1 to 8) and a 3 horizontal bars pattern. The number relates to the sensor ("3" means the sensor that is plugged into input 3). The 3 horizontal bars will tell what is connected and stuck to the product as shown below

The LCD display toggles between

The product having a problem

The type of problem

Left digit distributor number

Right digit type of problem

> *Top digit is lit: Nano sensor is not working*

> *Mid digit is lit: Main sensosr is not working*

Graph003

PLEASE NOTE THAT ON THE STANDARD Altea 3 THE BOTTOM BAR WILL NEVER BE LIT SINCE THERE IS NO PROTECTION ON THE POWER SUPPLY.

Information provided by the dot:

★ *Dot NOT lit: the control unit is OFF, nothing is protected*
★ *Dot blinking slowly (every second): control unit ON, no problem detected*
★ *Dot blinking quickly: control unit ON, but there is at least one problem that has been detected*

2.2/ Other information:

A = ALARM **U = Mains power supply is OFF** **n = WEAK BATTERIES** **H = n + U** **O = Control unit open** **Clockwise revolving = control unit blanck (*)**

Graph003b
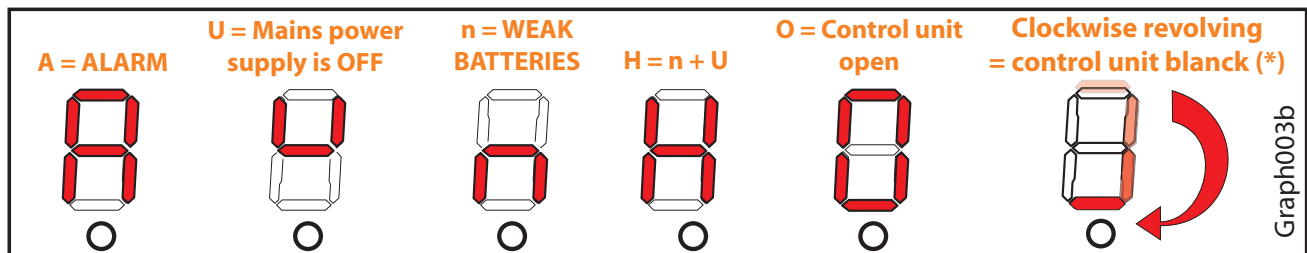
(*) It has NO key associated with it and it has NO configuration in memory whatsoever.

2.3/ Maximun capacity of the ALTEA 3 BUS control unit installation

1 control unit

9 distributors

2 IR receiver and display

15 mèter BUS lenght maxi

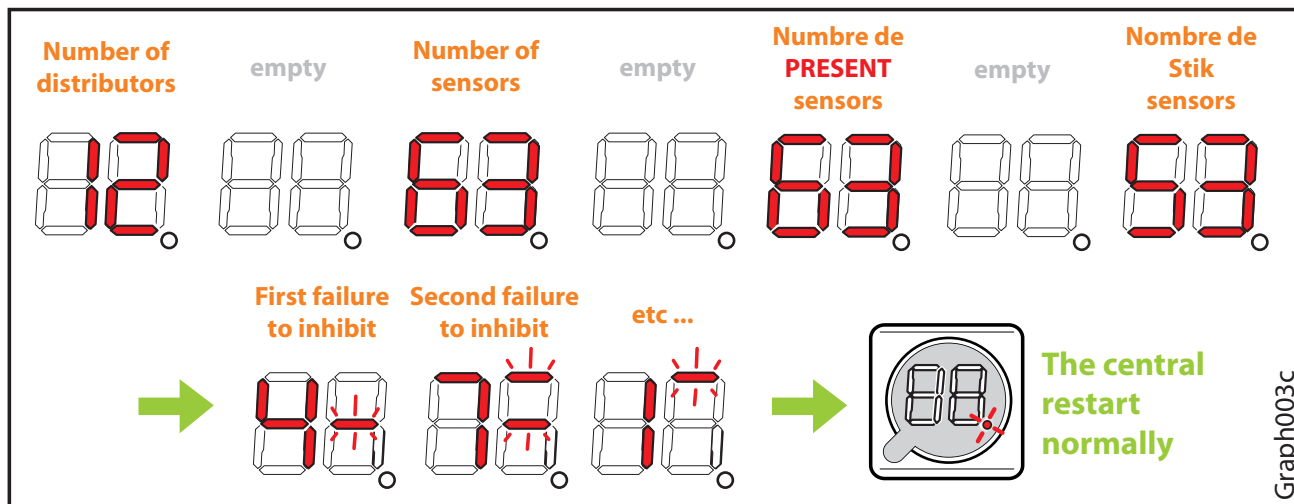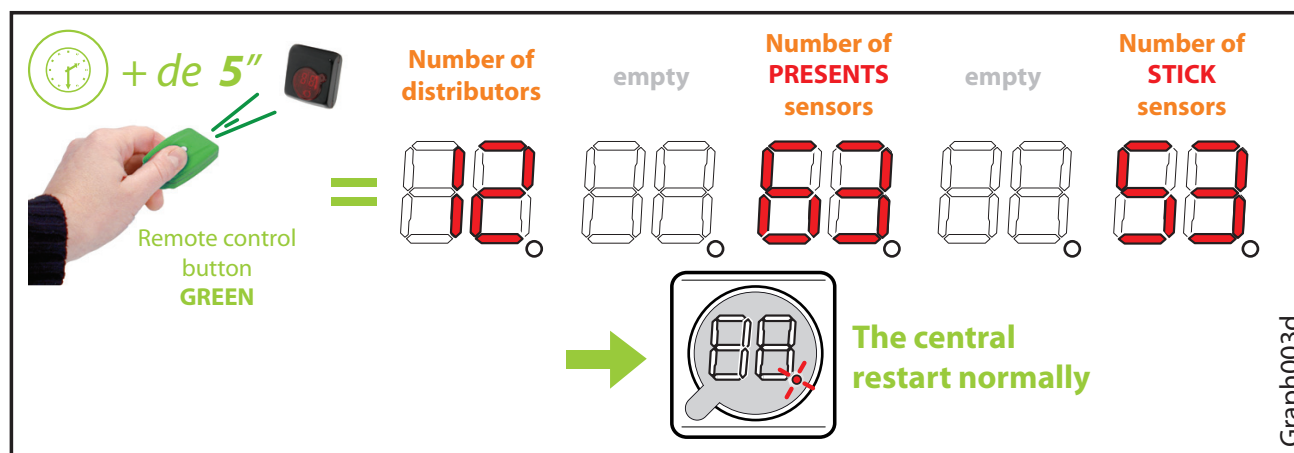## 2.4/ Displayed at the start

In the first operation of the control unitdisplay alternately shows the following information:

| Number of distributors | empty | Number of sensors | empty | Numbre de PRESENT sensors | empty | Nombre de Stik sensors |

First failure to inhibit | Second failure to inhibit | etc ... | The central restart normally

Graph003c

This function does not affect the first operation

2.5/ Display the number of distributors and sensors

After a long press of more than 5 seconds with the green remote control the control unit display alternately the number of distributors, present sensors and stik sensors on the installation:

+ de 5"

Remote control button **GREEN**

| Number of distributors | empty | Number of PRESENTS sensors | empty | Number of STICK sensors |

The central restart normally

Graph003d

2.6/ Functions of Red and green LEDs

GREEN LED:
- Indicates the presence of the power.
- Flashes when the control unit is operating.
- Indicates the absence of the power by a flash every15 seconds when the control unit is operating..

RED LED:
- It is on continuously when the control unit is not yet initialized (no badge is associated).
- Indicates the shutdown of the control unit when it is powered by two flashes every second.

2.7/ Functions of distributor LED :

- On all time = the distributor is not programming.
- Blinks every seconds = the distributor is programming, but does not communicate with control unit
- Emits a flash every 50ms = the distributor communicate with the controle unit «without» external power supply
- Emits two flashs every 50ms = the distributor communicate with the controle unit «with» external power supply.

3.0/ First startup.

1 - Opun the battery compartment
**2 -** Insert 3 standard AA batteries into the control unit
3 - Close the battery compartment.
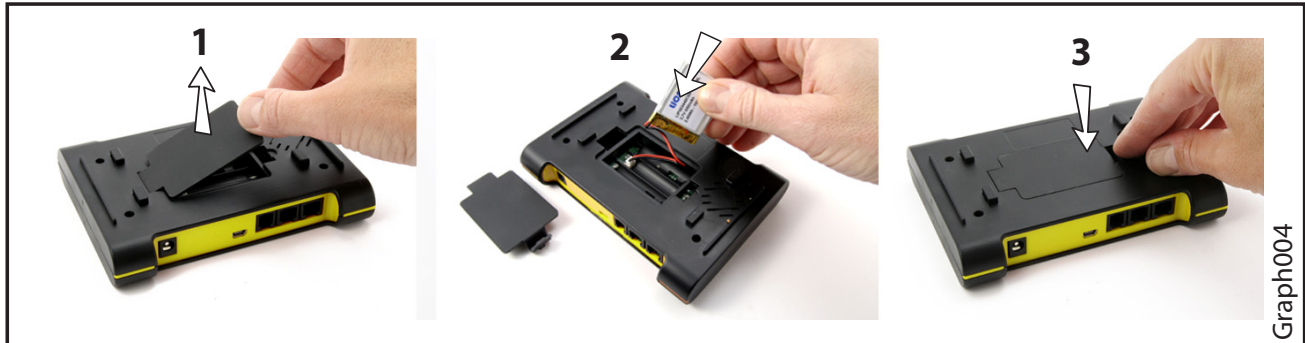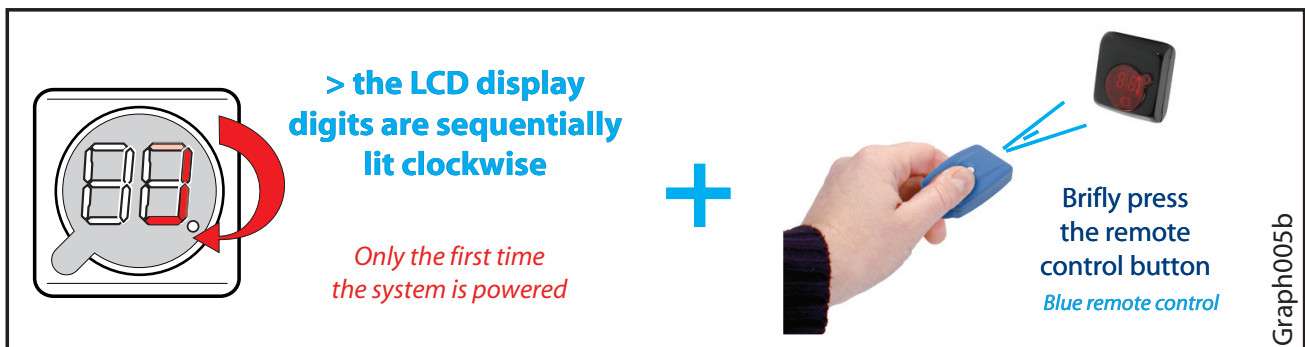

Graph004

4 - Connect the IR receiver / display to the control unit

At this stage, you may want to already connect up to 8 sensors to the control unit or you may want to power it up with no sensors and add them one by one later while the control unit is ON. Whatever you choose, the control unit will behave the same at the first power up:
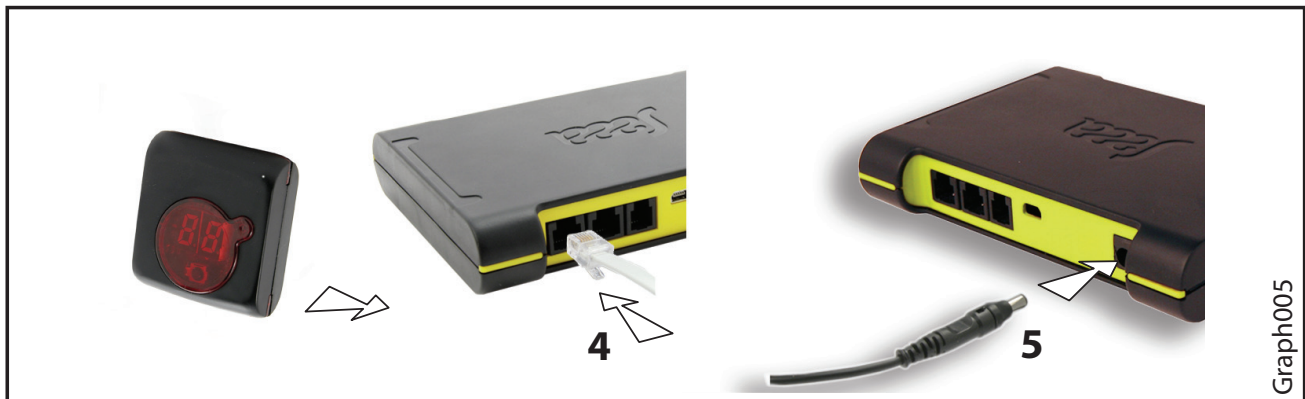
Graph005

5 - Connect the power supply.
6 - The display will show the clockwise revolving digits
7 - ASSOCIATE at least one blue key to the control unit

> **> the LCD display digits are sequentially lit clockwise**

Only the first time the system is powered

+

Brifly press the remote control button
Blue remote control

Graph005b

Once this is done, the Altea 3 will start operating and the display will show the slowly blinking dot.

8 - Install mode: the Altea 3 will then browse through its 8 inputs, starting from input 1. When it finds a sensor with every possible protection properly applied (ie both the main and nano sensors properly stuck for the Altea 3, or the main, the nano and the power supply sensors for the Altea 3 Pro) it just skips to the next input (if all 8 inputs have all sensors and all protections properly applied, then the control unit will just start its operation).

4.0/ Plug & Play procedure

4.1/ Control Unit Initializing

Start the Control Unit (without connecting sensors or with sensors connected but not stuck) without connecting distributors. The left display show nothing and the middle dash blink on the right display (internal distributor). Press the blue remote control to validate the internal distributor (address 0). If the Control Unit is started with at least one sensor stuck, it will display the first defective sensor fully or partially unstuck and you will have then to validate all the defective points from 1 to 8.

After Validation, the left display show " 1 " blinking and nothing on the right display because no distributor is connected. Press the blue key to validate the missing distributor and then repeat this operation till the display show the decimal point blinking meaning that the Control Unit is running.

4.2/ Distributors Programming

When the control Unit is running, connect the first virgin distributor (without connecting sensors or with sensors connected but not stuck) whose red LED is alight. The left display show number "1" blinking and the right display show the middle dash blinking indicating that it will validate automatically this distributor at the address " 1 " in 30 seconds, in the meantime, one bip will be emitted every 5 seconds. If you agree, you can speed the procedure validating with the blue remote control and stick label "1" on it then repeat this operation with all the distributors you have in the limit of 9.

Warning, if the connected distributor has at least one sensor stuck, the Control Unit will not take care of them and the validation of the Distributor will validate also the connected sensors

In the Plug & Play procedure, it is not possible to allocate distributors leaving blanks (i.e.: 1, 3, 5, 7, 9) the addresses proposed by the Control Unit are in order (1,2,3,4,5,6,7,8,9).
When a distributor is operating, the LED blinks briefly every second.

WARNING, you never must connect in the same time several virgin distributors to the Control Unit because they will get the same address and will generate false alarms.

5.0/ Maintenance procedure

5.1/ Programming

This procedure allows programming the distributors one by one, which means only one distributor can be connected to the Control Unit in the same time. If several virgin distributors are connected in the same time the LED of each distributor which normally must lit continuously will blink randomly.

To enter this procedure, you need to have a Yellow remote control allocated to the Control Unit and stop it pressing 5 seconds on the blue remote control.

You must wait to be on the right menu and on the right address to connect the distributor.
Press briefly on the yellow remote control and you see number " 1 " on the right, meaning you are at the " ringing " menu level, press briefly a new time on the yellow remote control and you reach the level of the cycling power menu, press briefly for the third time on the yellow remote control and you are at the programing distributor menu. Press 2 seconds the remote control and the left digit display the number " 1 " blinking and the right digit displays nothing. You have to press as much as necessary to reach the number you chosen and then connect the distributor (virgin or already programmed) which will get the current address stabilizing the display. Sticks the corresponding label and disconnect it, you will see on the left digit display the following number blinking and, if you do nothing, the control unit exit the programing mode after 5 seconds.

If you wish program several distributors in this mode, press briefly as much as necessary to reach the number you chosen or do nothing if the chosen address is the following and, within 5 seconds, connect the distributor which will get this new address and stabilize the display. Repeat this operation as much as necessary. When you reach the n° " 9 ", the following number will be n° 1. After having addressed Distributor n° 9, when you disconnect the distributor, the left digit display n° " 1 ". The current number blinks for 5 seconds allowing eventually programming of the following distributor. If you do nothing, the Control Unit will exit the programming mode after 5 seconds.

5.2/ Blanking

This procedure located on level " 4 " of the maintenance menus after the programming 3rd level allow to erase one several distributors at the same time. You have just, Control Unit in the stop mode, to press briefly 4 times on the yellow remote control to see the number "4" on the right digit. Press 2 seconds on the yellow remote control to put all the distributors connected to their default address (virgin distributor with the red LED lighting) and exit the blanking mode.
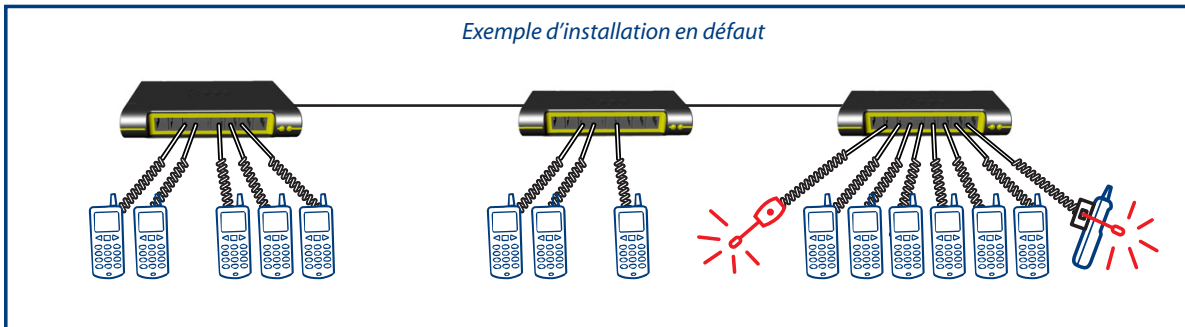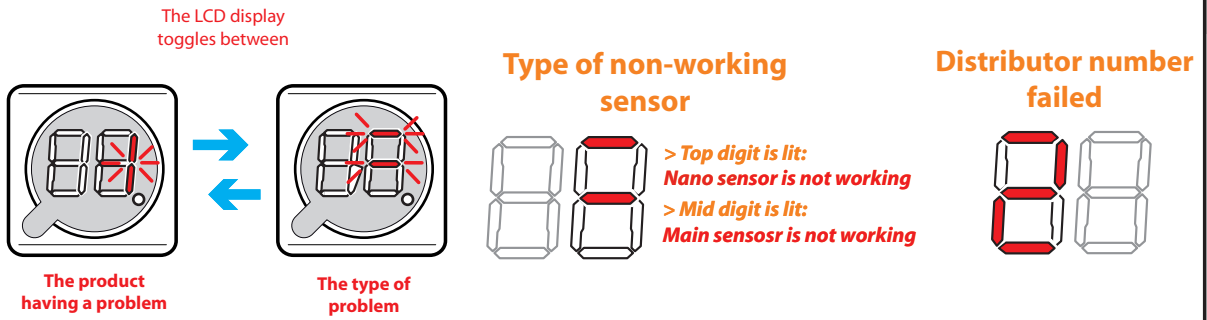
6.0/ Option : Alarm report

The alarm report is located on the contact 1 & 4 of the anti-displacement Plug
This is a dry N/O contact which is closed when there is a problem

This contact is activated in the following cases:
> *Self-protection default*
> *Bus Default*
> *Sensors default*
> *Distributor Default*
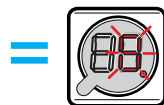> *Anti-displacement*
> *Connection of a TOR Sensor*

If only one telephone is missing or one sensor is not working

The LCD display toggles between

The product having a problem

The type of problem

Type of non-working sensor

> *Top digit is lit:*
Nano sensor is not working
> *Mid digit is lit:*
Main sensosr is not working

Distributor number failed

Exemple d'installation en défaut

IF what the LCD display tells you, is what you wanted (for example you did not want any telephone on position 1), VALIDATE

Briefly press the remote control button
Blue remote control
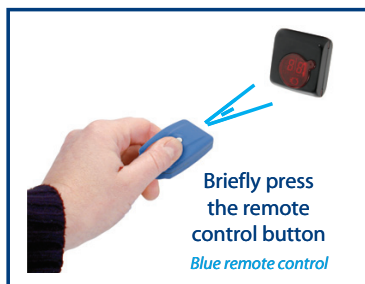
IF what the LCD displays tells you is NOT what you wanted (for example, you stuck a nano sensor on telephone 8, but top digit is lit (= nano sensor not working), CORRECT THE PROBLEM

Simply add what is missing, and/or properly re-stick the faulty sensor **(*)**

+ *3"*

Automatic acknowledgement after 3 secs

=

The LCD display automatically shows the next position on which there is either a missing telephone or a non working sensor, if any.

> **Renew the above steps for each position, until the LCD display shows the blinking red dot.**
> **System is up and running, fully protected as per your needs.**

(*) ALWAYS USE A NEW ADHESIVE WHEN RE-STICKING A SENSOR
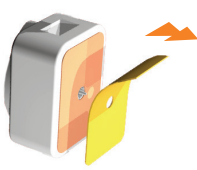
Graph005c

At the end of this procedure, the configuration of your installation will be kept in memory by the control unit (even if the control unit is switched off), and whatever discrepancy with this memorized configuration will trigger an alarm.

7.0/ Adding a product to an existing configuration

Adding products is automatic. Just stick the appropriate sensors on the product you want to add and connect it to the control unit.

ADD A PRODUCT

Peel the plastic film off	Stick the main sensor	Stick the nano sensor	Connect the power cord
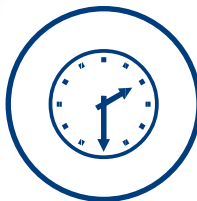
Plug into
Altea 3 or Distributor

After 30 secs, the control unit restarts its operation normally

Or riefly press the remote control button

3" =

1 Bip for the main sensor
2 Bips if a nano sensor is also connected

Taking addition into account

Graph006

After 30 seconds, a beep will be heard, telling that the control unit has taken the new product into account.

The display will show what has been detected, toggling between the product number and the 3 bars pattern (cf graph 005c), and a beep will be heard every 5 seconds.

You will need to validate the addition just like when you validated the various positions at first startup, by pressing on a valid blue or green key. However, if you don't, the Altea 3 will automatically validate what it has detected after 30 secs, and the beep will stop.

The new configuration will then be memorized, taking the addition into account.

8.0/ Alarm management

When an alarm is triggered, a loud audio sound will be heard and the display will show a "A".

Theft attempt
Example: telephone n°8

ALARM !

1 2 3 4 5 6 7 **8**

Loud audio signal

Graph007
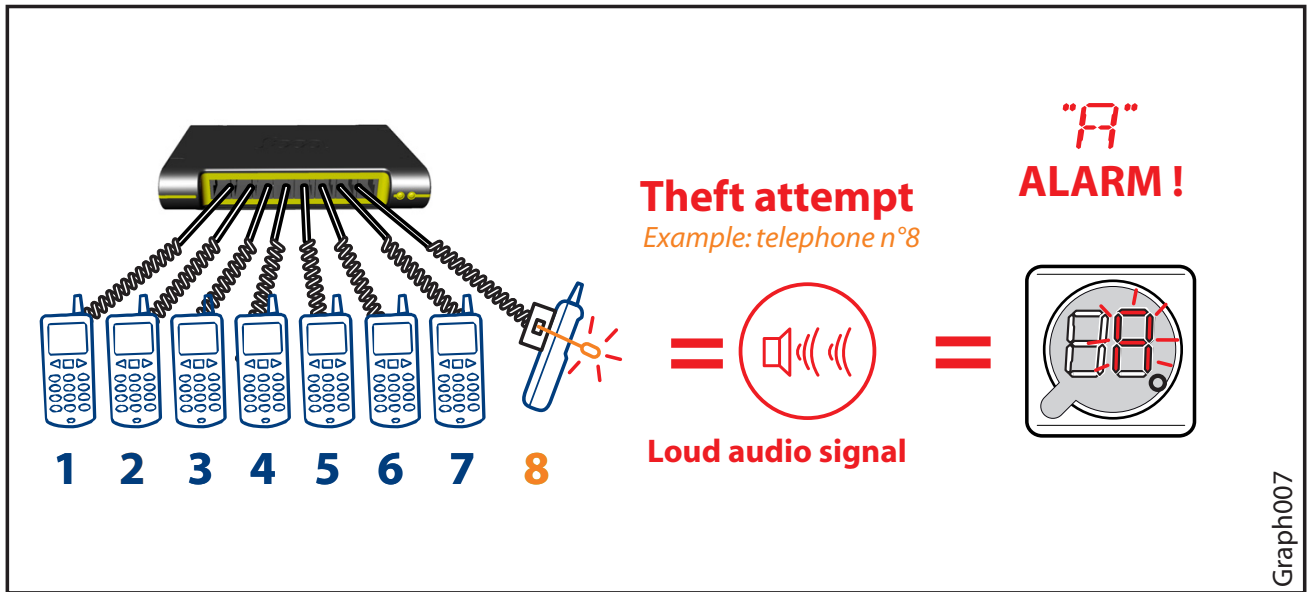
It is of course highly recommended to immediately look around and find out if anyone is trying to tamper with the system.

To stop the alarm sound, briefly press on a blue or green key.

Brifly press
the remote
control button
Blue remote control

**Stops
the audio
signal**

**All other telephones
remain fully protected**

Graph008
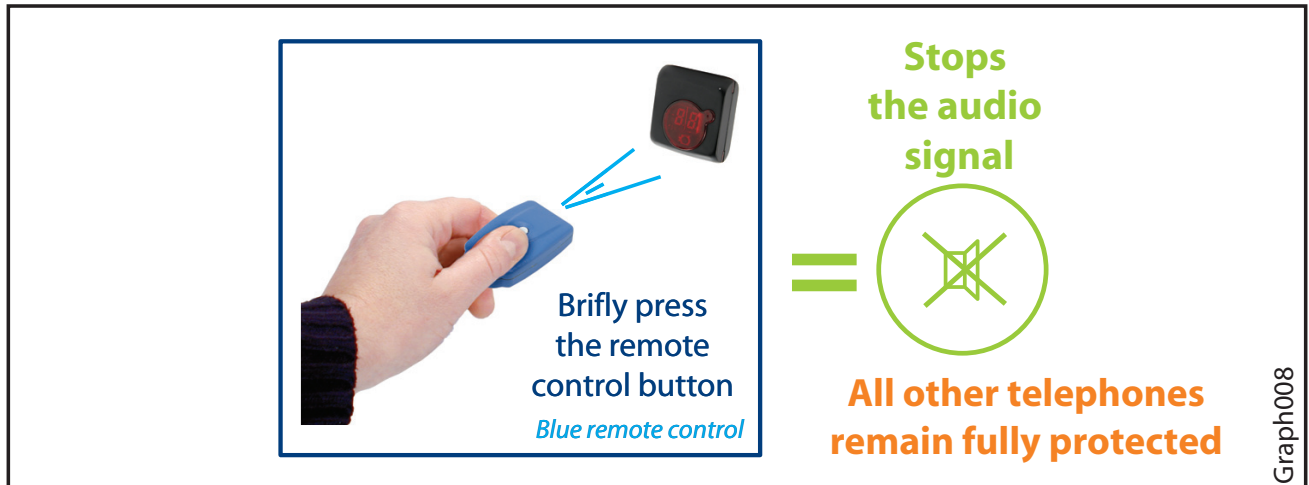
Caution: by doing so, you are also inhibiting the particular sensor that triggered the alarm (the nano sensor of telephone #8 in the above example). That means that you have lost the protection brought by this sensor until you fix the problem.

It is therefore highly recommended that you fix the problem immediately (cf graph 009).

However, if you really don't have time to, you will be able to fix it later (not recommended). In the meantime, all other products remain fully protected.

If there is at least one sensor that has been inhibited, the dot on the LCD will blink more quickly, meaning: "there is at least one problem that needs to be fixed".

9.0/ Repair mode

A short press on a blue or green key while there is no alarm will enter the repair mode. If the Altea 3 finds problems that require your attention it will indicate them through the LCD display:

REPAIR MODE

The LCD display toggles between the number of the position where a problem was detected and the type of problem

Briefly press
the remote
control button

Blue remote control

=

Fix the problem(s)

=

The control unit restarts its operation normally

Graph009
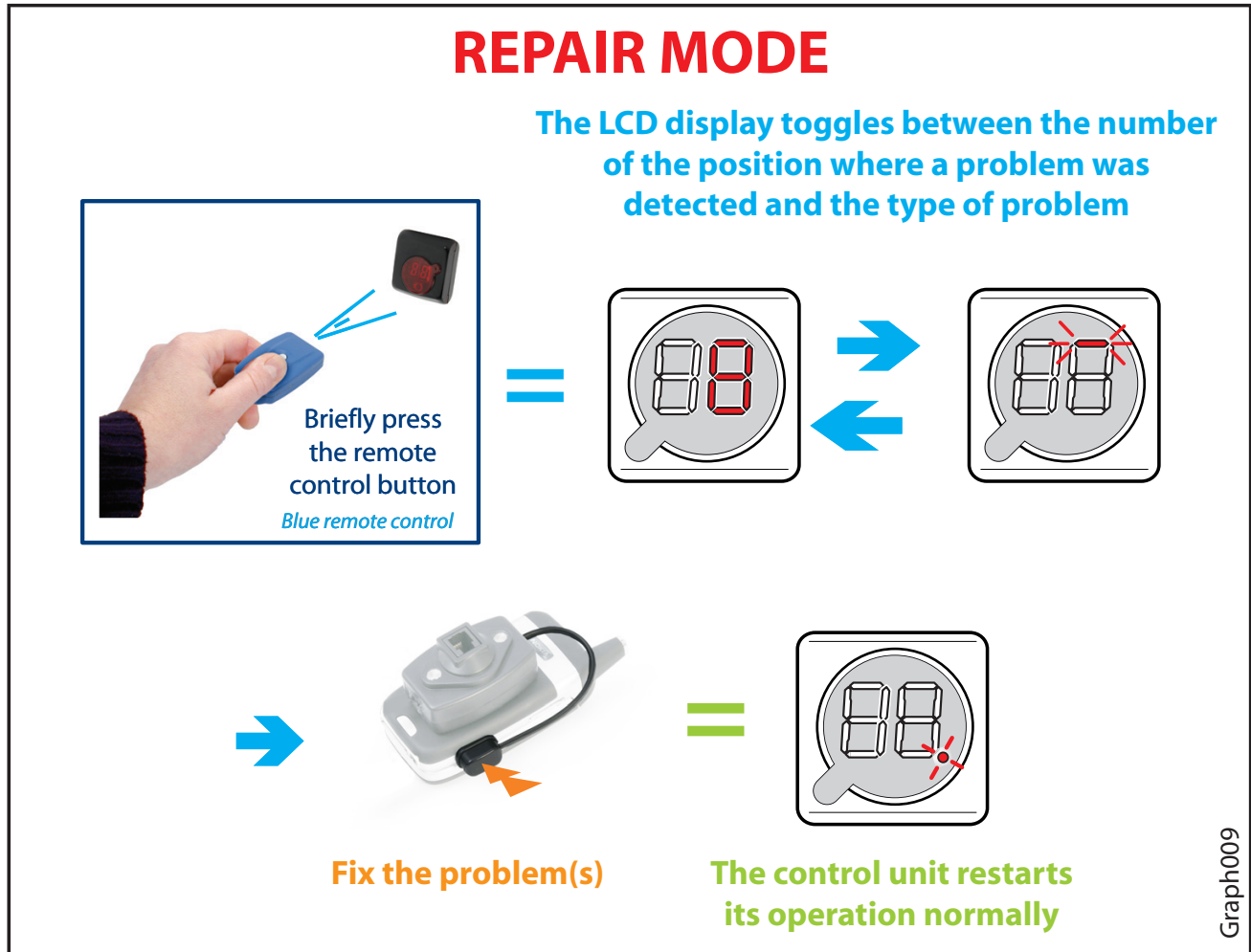
Fix the designated problem (generally by properly re-sticking the sensor, using a new adhesive) . The Altea 3 will then move to the next detected problem. When all problems are solved, the display shows the slowly blinking dot again.

9.1/ Alarm default BUS

In case of default BUS, the alarm goes on and can be stopped by IR Key only after the default disappears.
The display shows an "A" on the left digit of the display if some distributor have disappeared.
The display shows ana "b" if all distributors cannot communicate.
There's no display when communication is restored on the bus.

IR receiver and display

IR Key

BUS distributor

BUS distributor

Défault BUS

ALTEA 3 BUS
Controle Unit

SAAA
Sensors

The display shows a "b" if **NO** distributor is recognized by the control unit.

BUS distributor

BUS distributor

Défault BUS

ALTEA 3 BUS
Control Unit

The display shows a "A" if **PART** distributor only is recognized by the control unit.

BUS distributor

BUS distributor

Défault BUS

ALTEA 3 BUS
Control Unit

Graph0092

10.0/ Stop the Altea 3 (not recommended)

Caution: stopping the control unit will leave all products un-protected.

5"

3 audio beeps

① Pressing more than 5 secs

Red remote control

= = CONTROL UNIT "OFF"

Graph009b
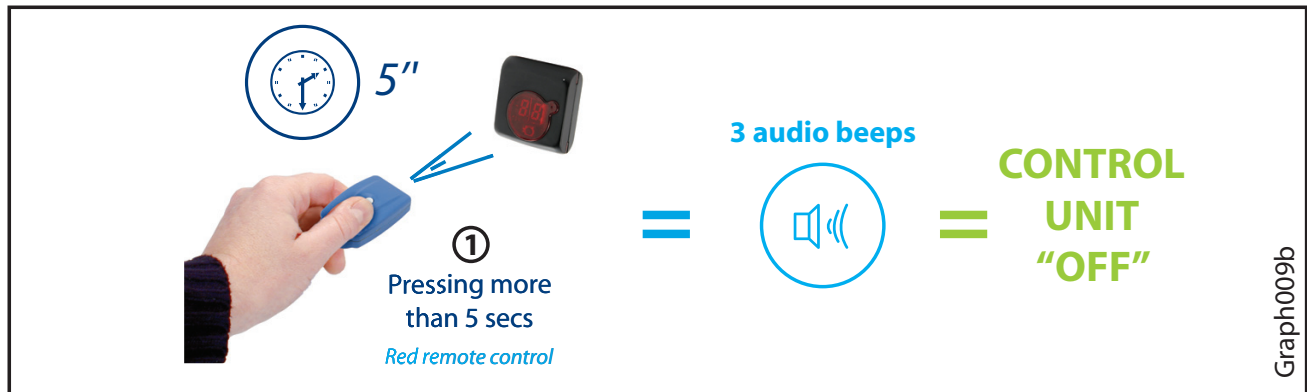
11.0/ Resetting the configuration

A long (more than 10 secs) press on the blue key will stop the control unit (=nothing protected), and completely reset the Altea 3 configuration (that was memorized during the installation phase and by further adding products). This operation does'nt remove the keys.

RESET THE CONTROL UNIT CONFIGURATION

Long press on the remote control
Blue remote control

5" long beep

+ *than* 10" =

Graph010

The next time the Altea 3 is switched on (by pressing a valid key), it comes back to the "install mode" as described in "first startup, 8)". Follow the steps described in first startup 8), until a new configuration is memorized.

12.0/ Removing products from the installation

1 - If you own a yellow key:

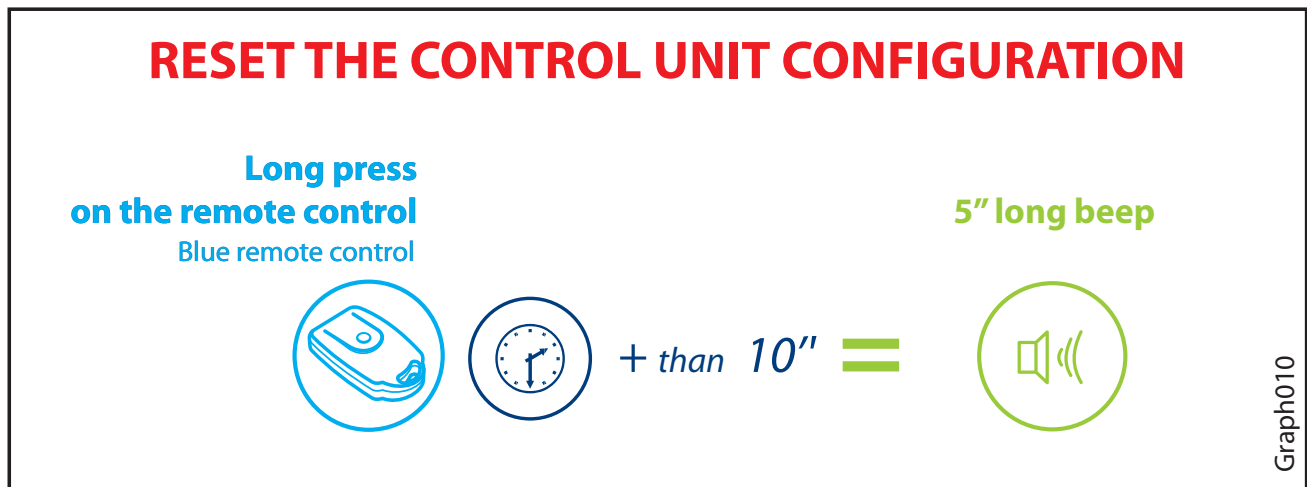Press on the yellow key. The display will show a specific pattern (cf. graph009) and a beep will be heard every second. You have 10 seconds to take whatever product/sensor off the installation. This will not trigger an alarm and the new configuration, taking the removal into account, will be memorized. Each time you take a product off, you again have 10 seconds to remove another one if you wish.

Note: the yellow key allows a convenient and easy removal of products, the control

unit being still switched ON (= all products are duly protected).

REMOVING PRODUCTS

The LCD display will show a specific pattern

You have 5 seconds to take product off

Briefly press the remote control button

yellow remote control

=

=

5"

Graph009

2 - If you don't own a yellow key, the only way to take products off the installation is to perform a configuration reset with your blue key as described in "resetting the configuration".

When the reset is done and the Altea 3 is off, remove whatever you want from your installation, reshuffle everything as you wish, then start the Altea 3 again (by pressing whatever valid key) and follow the install mode steps as described in "start-up 8)" to validate your new configuration.

13.0/ Adding a distributor

Distributors will be taken automatically after the connection on the bus when the controle unit is operating. There will be a 30 second delay before taking effect. There will be flashing digit left (number distributor) during this phase.

.

IR Receiver and display

ON/OFF BLUE IR KEY

BUS distributor

BUS distributor

ALTEA 3 BUS control unit

When you connect the distributor to add, the number one flashes on the left digit

The right digit indicates the first sensor connected and considered on this new distributor

=

+

Confirm consideration distributor by a short press on the remote blue

Short press
Remote control button

Graph011b

Distributors will be taken an virgin address or an address between 1 and 9

14.0/ Key usage

14.1/ Getting started

If your Altea 3 is brand new or if it has been totally reset (configuration and key reset), the display will show clock wise revolving digits.

That means that NO key is currently associated to (= known by) the control unit. In that state, only a blue or red key can be recognized and associated to the Altea 3, which means you have two options:

Option 1: associating a blue key (with red key)

Briefly press
the remote
control button
Blue remote control

=

> CONTROL UNIT ON

*The display shows
the slowly
blinking dot.*

Graph012

Just take a blue key and press the button. A beep will be heard and the blue key will automatically be associated to the control unit. The Altea 3 will be switched ON and will start a new configuration check as described in the first startup user's guide ("First startup.", page 7). Follow the steps from there.

Option 2: associating a red key (control unit blank)

Briefly press
the remote
control button
Red remote control

=

**> the control unit
start normally**
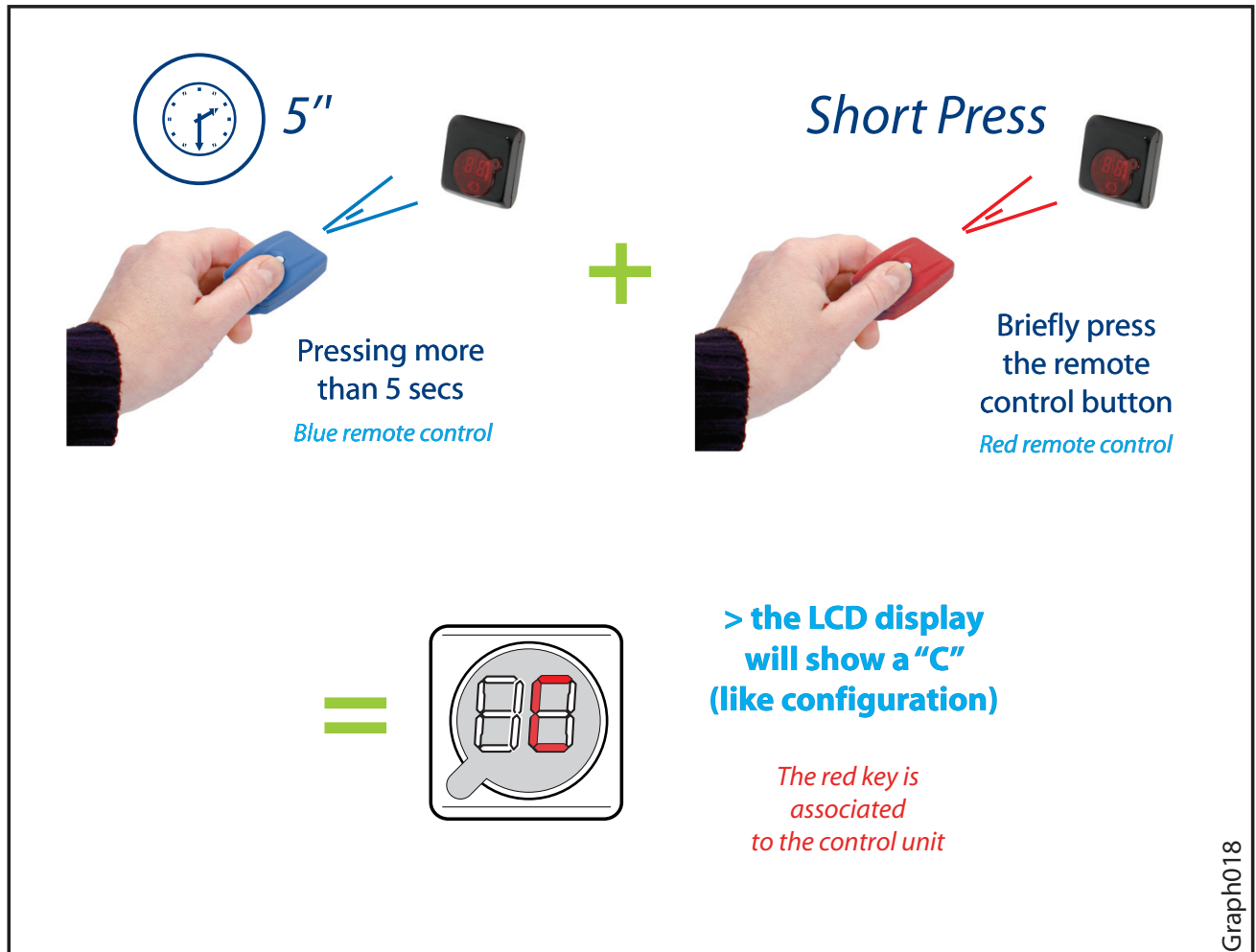
point flashes slowly

Graph014

This option is generally chosen when you want to quickly re-associate all the keys you own to a Altea 3 that has been totally reset (configuration + keys reset).

Just take a red key, press the button. A beep will be heard, the display will show a "C" (like configuration), and the red key will automatically be associated to the control unit. From there, you need to associate other keys to your Altea 3, otherwise you will just stay in this configuration mode (with the "C" still displayed) and will not be able to use the control unit.

Just associate the other keys you have to the Altea 3 by following the relevant procedure ("Associating blue, green or yellow keys to a Altea 3", page 20).

14.2/ Associating a RED key to a Altea 3 (when the blue key is allready allocated)

1 - switch the Altea 3 OFF (by pressing more than 5 secs on a valid blue key)
2 - Short press on the red key: a C will be briefly displayed and the red key will be associated to the Altea 3.

5"

Short Press

Pressing more than 5 secs
Blue remote control

Briefly press the remote control button
Red remote control

> the LCD display will show a "C" (like configuration)

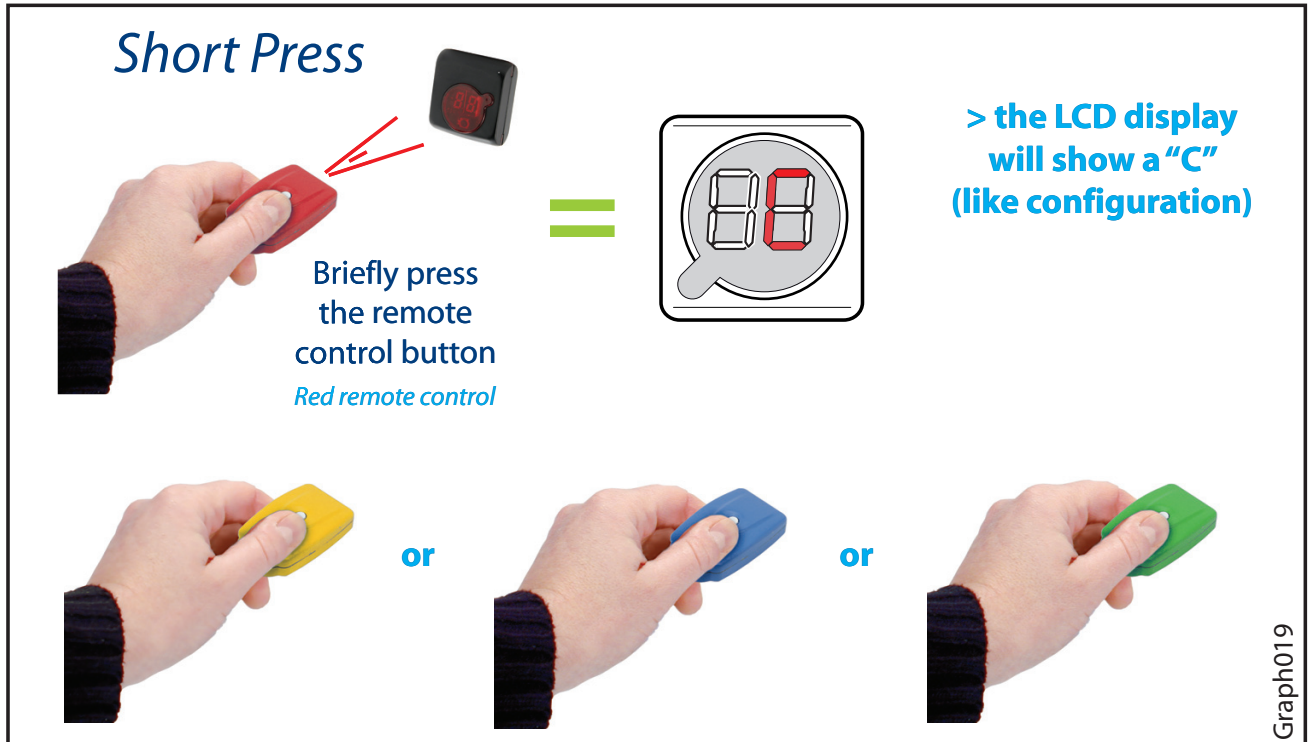*The red key is associated to the control unit*

Graph018

Note: a Altea 3 control unit can only have ONE red key associated to it. Attempting to associate a second red key to a Altea 3 WILL NOT WORK.

14.3/ Associating blue, green or yellow keys to a Altea 3

Have a valid red key + all the new keys you wish to associate to the control unit ready and next to you.

1 - Whether the Altea 3 is ON or OFF, short press on a valid red key: the display shows a C
2 - You have then 5 secs to associate a new blue, green or yellow key to the Altea 3, by just pressing on the key.

Short Press

Briefly press
the remote
control button

Red remote control

=

**> the LCD display
will show a "C"
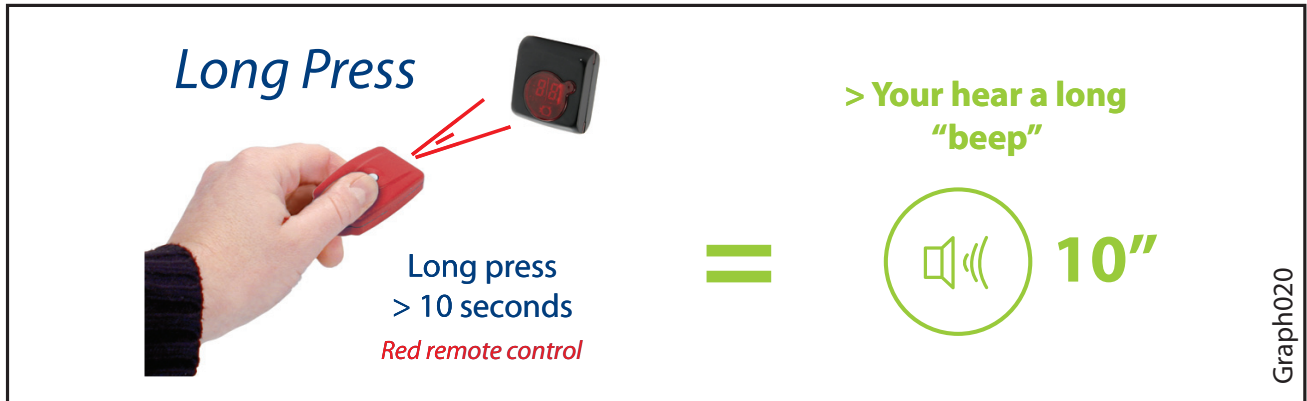(like configuration)**

or

or

Graph019

3 - Renew step 2 until you have associated all the keys you wanted to. Each time you press on a key to associate it, you have again 5 secs to enter the next key.
4 - 5 secs after you have associated the last key you wanted to, the display comes back to normal.

14.4/ Deleting a key from the Altea 3

There is NO WAY to remove the keys associated to a Altea 3 ONE by ONE. The only procedure is actually to delete ALL keys at once, then to re-enter the keys you wish.

1 - Long press on the red key (> 10 secs) until you hear a long (10 secs) beep (The Altea 3 may be ON or OFF, it does not matter).

Long Press

Long press
> 10 seconds
Red remote control

**>Your hear a long "beep"**

=

10"

Graph020

ALL keys have been deleted from the Altea 3 (including the red key you just used) AND the Altea 3 configuration has been reset. The display shows the clockwise revolving digits.

2 - Go to 1) option b, to quickly re-associate all other keys to your Altea 3.

15.0/ Changing the batteries

1 - Stop the control unit ("Stop the Altea 3 (not recommended)", page 15)
2 - Take the power supply off (3 beeps will be heard, meaning "mains power off")

Briefly press
the remote
control button
Blue remote control
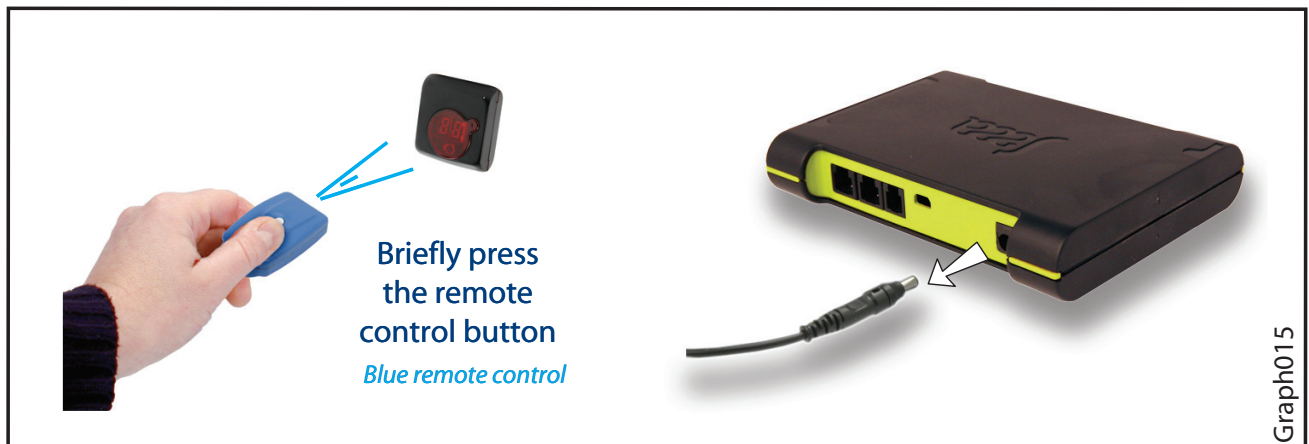
Graph015

3 - Unscrew and remove the lid

4 - Replace the batteries

Graph016

5 - Put the lid back into place and screw it
6 - Reconnect the power supply, the Altea 3 automatically starts.

Graph017

Note: if for any reason, you reconnect the power supply to the Altea 3 while the case is opened, you must know that you have one minute to put the lid back into place, otherwise the alarm will be triggered and the display will show "o" (open).

16.0/ Special procedure: what to do if I have lost my red key !

If you have lost your red key and want to enter a new red key into your Altea 3:
1 - Stop the control unit
2 - Take the power supply off (3 beeps will be heard, meaning "mains power off")
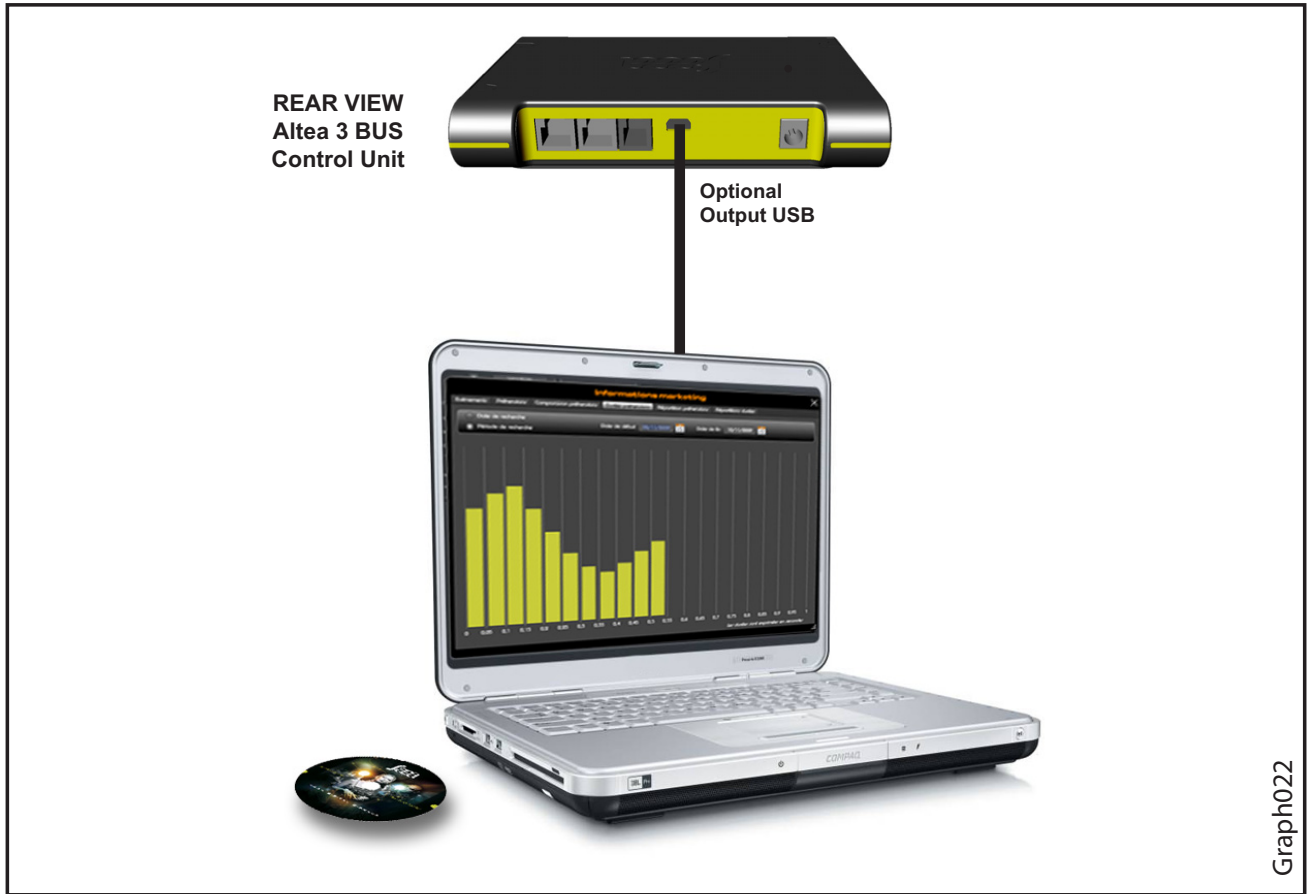**3 -** Unscrew the lid
4 - Remove the lid

5 - take the batteries off WAIT ONE MINUTE

5"

3 audio beeps

= **=** **CONTROL UNIT "OFF"**

① Pressing more than 5 secs
Red remote control

② ③ ④ ⑤

Pressing more than 5 secs

1 minute

⑥ ⑦ ⑨ ⑩

Long press

⑪ **=** **centrale à l'arrêt**

Pressing more than 5 secs
Red remote control

Short Press

1 audio beeps

⑧ **= 1 x**

Briefly press the remote control button
Red remote control

Graph021

6 - Put the batteries back into place
7 - Connect the power supply
8 - Put the lid back into place
9 - Screw the lid
10 - Press on the blue key = control unit OFF
11 - Press on the red key you want to associate to the control unit.

17.0/ Digital Signage option

17.1/ Computer connection via USB

REAR VIEW
Altea 3 BUS
Control Unit

Optional
Output USB

Graph022

17.2/ Kit includes Digital Signage Saaa

**ALTEA 3 BUS - DS
control unit**

Soft Cd-Rom Digital Signage Saaa

Mini-USB

Graph023