



ANIMA - ANIMAB

Capacitive command keypad

090010887





FOREWORD

FOR THE INSTALLER:

Comply strictly with current standards governing the installation of electrical systems and security systems, and with the manufacturer's directions given in the manuals supplied with the products.

Provide the user with full information on using the system installed and on its limitations, pointing out that there are different levels of security performance that will need to suit the user's requirements within the constraints of the specific applicable standards. See that the user looks through the warnings given herein.

FOR THE USER:

Check the system's operation thoroughly at regular intervals, making sure the equipment can be armed and disarmed properly.

Make sure the system receives proper routine maintenance, employing the services of specialist personnel who meet the requirements prescribed by current regulations.

Ask your installer to check that the system suits changing operating conditions (e.g. changes in the extent of the areas to be protected, change in access methods, etc...).

This device has been designed, built and tested with the utmost care and attention, adopting test and inspection procedures in accordance with current legislation. Full compliance of the working specifications is only achieved in the event the device is used solely for its intended purpose, namely:

Control keypad for VIDOMO, NET series, ETR series, TITANIA series and compatible control units

The device is not intended for any use other than the above and hence its correct functioning in such cases cannot be assured.

Consequently, any use of the manual in your possession for any purpose other than those for which it was compiled - namely for the purpose of explaining the product's technical features and operating procedures - is strictly prohibited.

Production processes are closely monitored in order to prevent faults and malfunctions. However, the componentry adopted is subject to an extremely modest percentage of faults, which is nonetheless the case with any electronic or mechanical product.

Given the intended use of this item (protection of property and people), we invite you to adapt the level of protection offered by the system to suit the actual situation of risk (allowing for the possibility of impaired system operation due to faults or other problems), while reminding you that there are specific standards for the design and production of systems intended for this kind of application.

We hereby advise you (the system's operator) to see that the system receives regular routine maintenance, at least in accordance with the provisions of current legislation, and also check on as regular a basis as the risk involved requires that the system in question is operating properly, with particular reference to the control unit, sensors, sounders, dialler(s) and any other device connected. You must let the installer know how well the system seems to be operating, based on the results of periodic checks, without delay.

Work involved in the design, installation and maintenance of systems incorporating this product should be performed only by personnel with suitable skills and knowledge required to work safely so as to prevent any accidents. It is vital that systems be installed in accordance with current legislation. The internal parts of certain equipment are connected to the mains and therefore there is a risk of electrocution when maintenance work is performed inside without first disconnecting the primary and emergency power supplies. Certain products include batteries, rechargeable or otherwise, as an emergency backup power supply. If connected incorrectly, they may cause damage to the product or property, and may endanger the operator (explosion and fire).

EU DECLARATION OF CONFORMITY

The product complies with current European EMC and LVD directives. You can log into the elmospa.com website to read the full Declaration of Performance: registration is quick and easy.

DISPOSAL INSTRUCTIONS - INFORMATION FOR THE USER



In accordance with Directive 2012/19/EU on waste electrical and electronic equipment (WEEE), please be advised that the EEE was placed on the market after 13 August 2005 and must be disposed of separately from normal household waste.

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1. GENERALS

The ANIMA keypad, featuring the capacitive “Touch pad CapSense” technology, represents the state-of-the-art in the field of the control devices for the ETR series and other compatible control units (e.g. the VIDOMO model, the NET, TITANIA and PREGIO2000 series). The maximum number of keypads that can be installed varies according to the control unit processing capability.

The ANIMA keypad features the following key points:

- **Minimal design.** ANIMA is an elegant and thin keypad, with a black housing. The ANIMAB model features a white housing.
- In stand-by status, ANIMA offers a shiny and uniform surface. Just touch lightly its surface to make a keypad appear.
- **Touch pad CapSense.** It is possible to interact with the ANIMA keypad by simply touching its surface, for an immediate and easy interactivity.
- **Customizable menu,** to interact directly with the control unit through simple programming steps.
- **Built-in proximity key reader** to facilitate arming and disarming of the intrusion detection system.
- It is possible to perform **wall mounting** (using the optional accessory): the final result can be made more elegant using a glossy frame (order the ANIMABOX model for ANIMA, the ANIMABOXB model for ANIMAB).
- ANIMA supports the connection of up to 4 proximity key readers (only 1 reader for compliance with the EN50131 standard).

Convention: in this manual, we will generally refer to the ANIMA keypad, except in case we need to mark any differences concerning the ANIMAB model.

2. FEATURES

2.1 General features

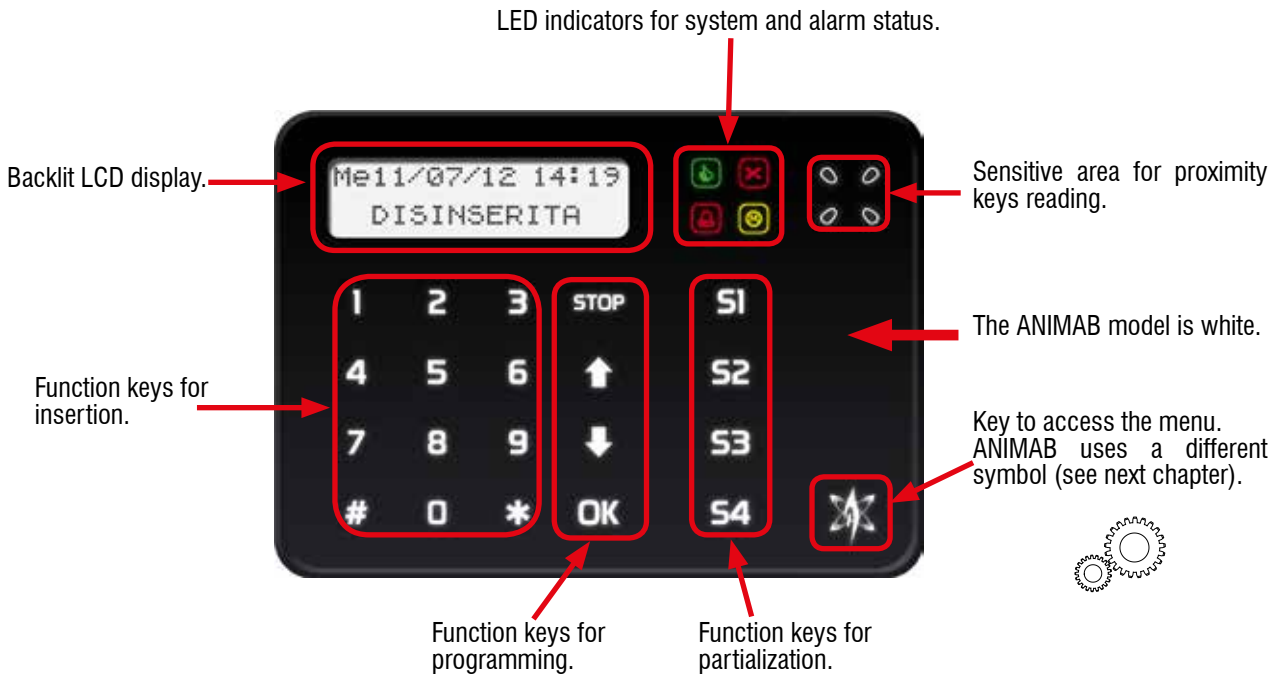
| | | | |
|---------------------------------|--|------------------------------|---|
| Model | ANIMA - ANIMAB | Visualizations | Systems LEDs, display messages, backlit keys. |
| Protection class | IP3X | Command access | Through code depending on the control unit features. |
| Environmental class | II | Protections | Tamper protection against opening and removal. |
| Safety degree | 2 or 3, depending on the system/control unit to which it is connected. | Wirings | Use shielded 4-wire cable (min. $2 \times 0.75 \text{ mm}^2 + 2 \times 0.22 \text{ mm}^2$) and 8-wire cable for proximity key reader connection ($2 \times 0.75 \text{ mm}^2 + 6 \times 0.22 \text{ mm}^2$), 7 of the 8 wires are connected. |
| Supply voltage | 12 V _{CC} (7 - 15 V) supplied by the control unit. | Dimensions and weight | W 136 x H 95 x D 21 mm - 168 g. |
| Power consumption @ 12 V | 55 mA with OFF display, 90 mA when control unit is armed, 110 mA maximum. | Parts supplied | Technical manual, screws and dowels for fixing, 680 Ω resistor, cable with JST connector for the reader. |
| Terminal connections for | ULTRABUS RS-485 serial line, M4 proximity key reader, open-collector 30 mA output | | |
| Commands | Keypad with 20 capacitive keys divided in two groups. Key for menu access available. | | |
| Operating conditions | -10 / +40 °C, 93% U.R. | | |

The ANIMA control keypad is an accessory of compatible control units equipped with CE marking. It complies with the EN50131-1, EN50131-3 standards for degree 3, environmental class II.



3. VIEW OF THE KEYPAD

The capacitive keypad mod. ANIMA is designed for command, visualization and programming purposes for compatible control units. It is equipped with backlit display for a more comfortable viewing of the status messages and control unit programming.
Keypad front view:



3.1 Keypad general signalling

The ANIMA keypad provides light signals to indicate the different operating states. For more detailed information, refer to the documentation of the control unit to which the keypad is connected; in general, the most important messages are provided as follows:

Green light used for various signalling. It allows to properly monitor the state of the control unit arming.

Red "bell" light to signal the memorization status of the general alarm.



Red "scissor" light to signal the memory of 24H or Tamper alarm.

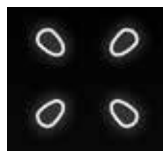
Yellow light for system anomaly signalling. It summarizes the various control unit operating conditions.

S1 These keys are used to display the control unit total or partial arming state, and to signal the partitioning schemes; they are also used during the control unit programming phase.

S2

S3

S4

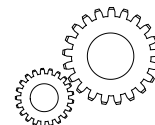


Sensitive zone with "X" shape. Present the M4 electronic PROXI key here; the reading circuit is built-in in the keypad.



ANIMA

Press and hold this key for more than 5 s to access the keypad menu.



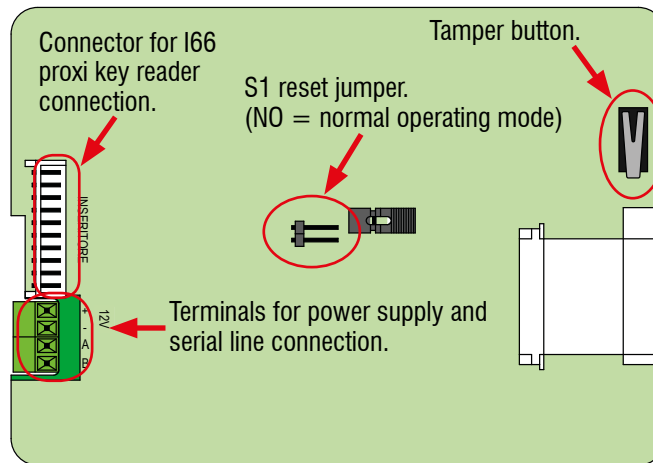
ANIMAB

Note: the indications will be visible or not according to control unit configuration (standard mode or EN50131-compliant mode).

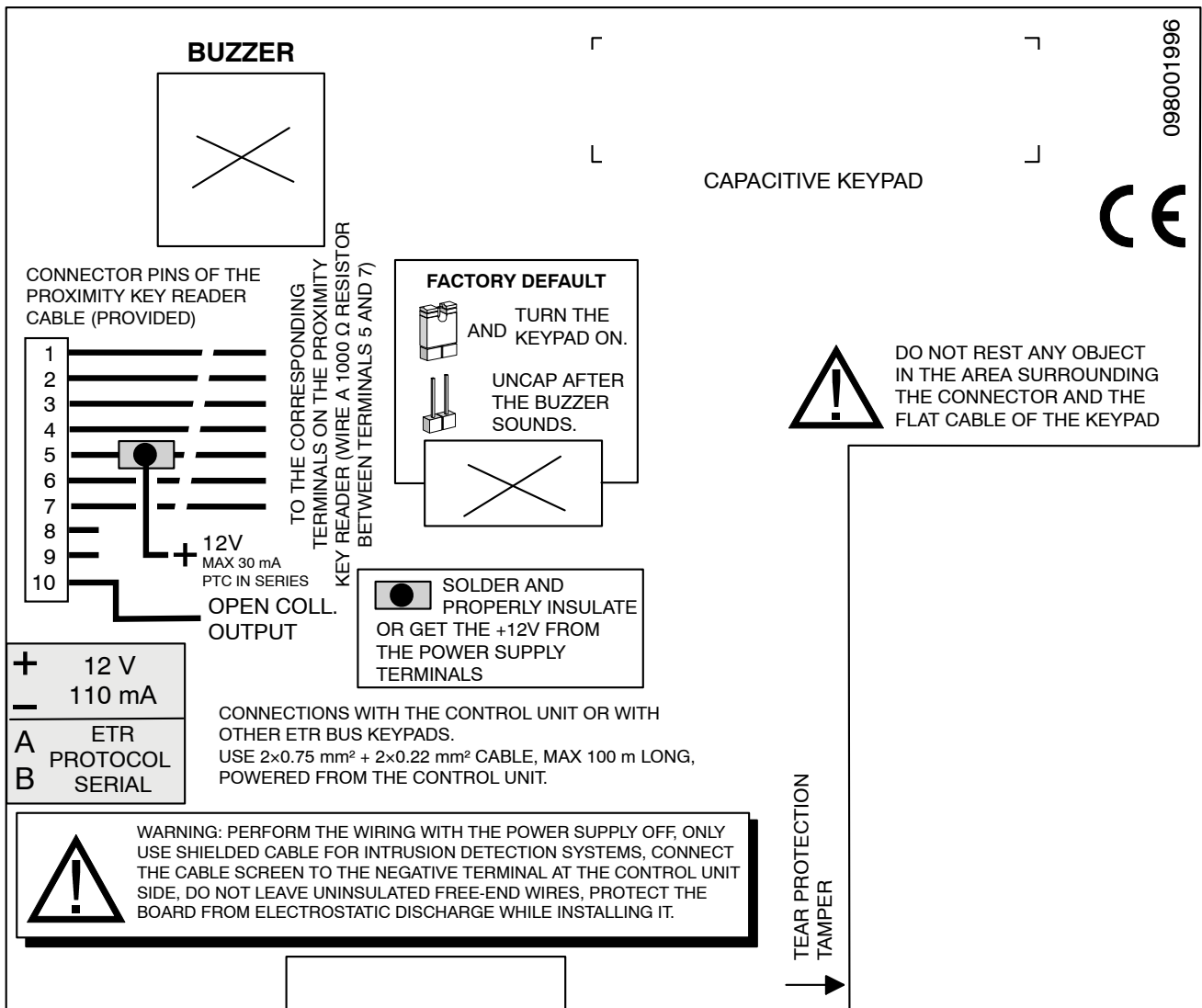


3.2 View of the keypad board

Main elements of the keypad.



Keypad instructions (translated).





4. INSTALLATION

4.1 Pre-installation housing opening

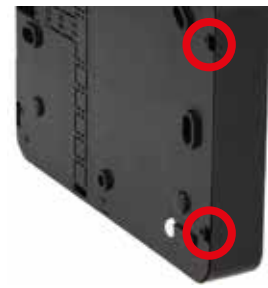
To perform the opening and closing operations of the housing, see the following images.



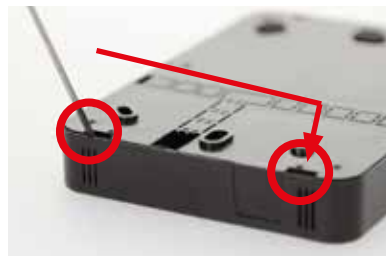
Closed ANIMA keypad.



In the bottom of the keypad, there are 4 holes (two on each side) for keypad release (**first side**).



In the bottom of the keyboard there are 4 holes (two on each side) for keypad release (**second side**).



The bottom housing detach operation can be easily performed without using any particular tool. Anyway, the blade of a small screwdriver can be used if necessary.

Insert the blade of a small screwdriver in one of the 4 holes (for a depth of 2 mm) and turn slightly until the locking tab is released.

Keypad open, now it is possible to proceed with the installation.

When defining the keypad fixing point, also decide a mounting height suitable for comfortable display reading and key management.

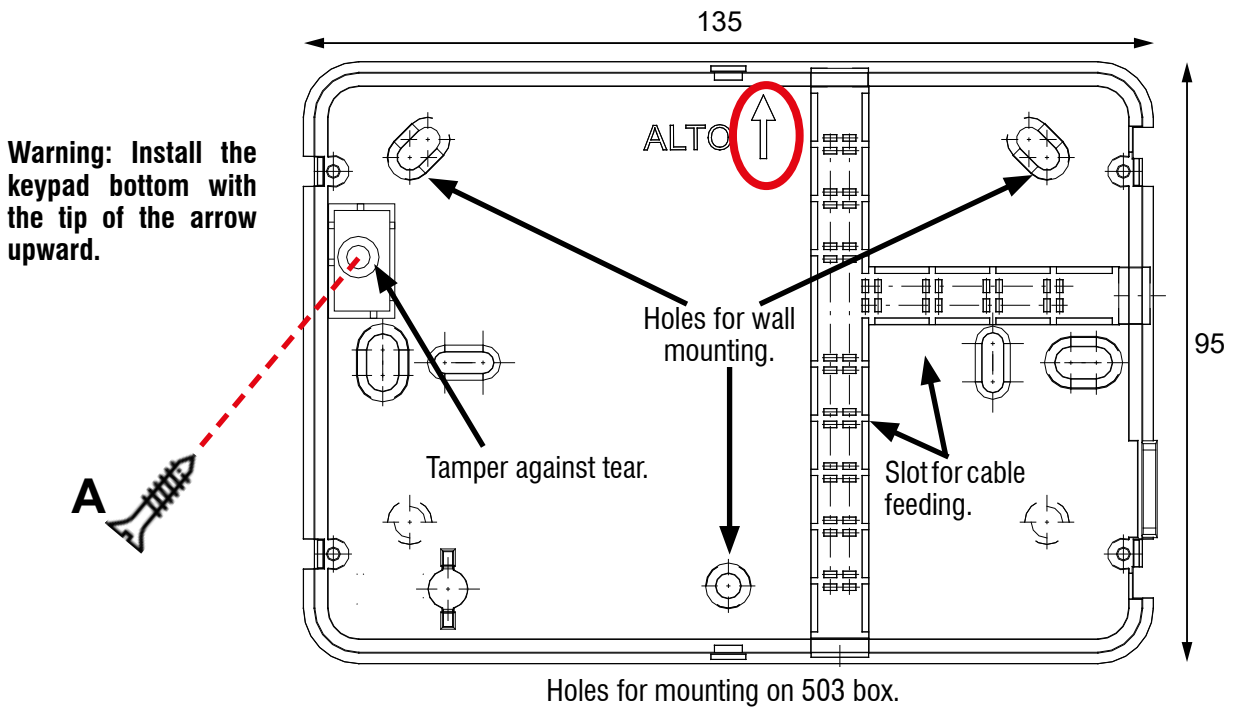
During keypad wiring, do not leave free not-isolated wire cuttings inside the housing, in order to prevent short-circuits.

DO NOT INSERT THE SCREWDRIVER BLADE DEEPER THAN INDICATED, TO AVOID DAMAGING THE COMPONENTS.



4.2 Wall mounting

Dimensions in millimeters for drilling and keypad wall fixing.



To enable protection against removal, insert a screw (A in previous picture) with dowel in the indicated hole. Keypad opening and closing, after the keypad has been mounted on the wall.



Lean both hands on the sides of the keypad.



Pull gently downwards.



When the keypad is open, pay attention to the cables and to the board.



To close the keypad, hook the lower part to the upper one.



Move the front to the base, with a slight rotation.



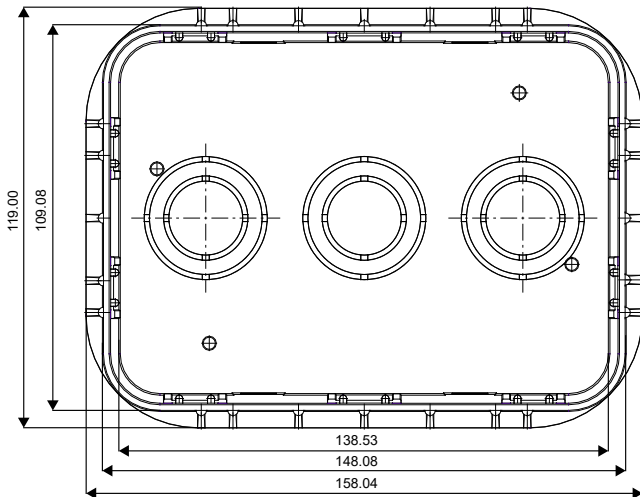
Gently press on both the sides until the keypad is fastened to the base.

Note: we suggest that you remove the protecting film from the panel, after installing the keypad.

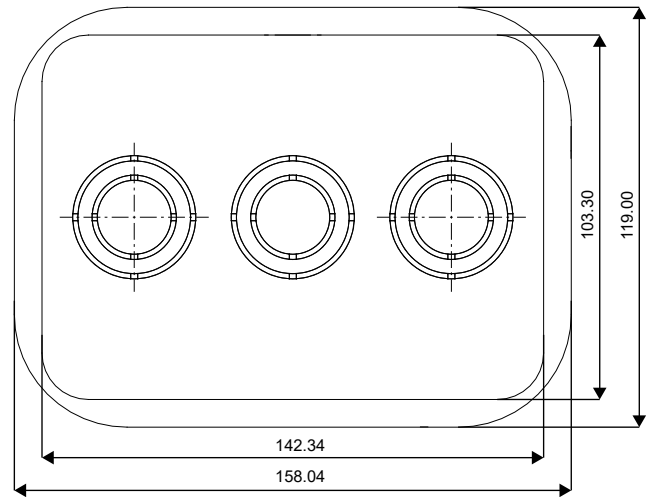


4.3 Flush mounting

Recessed box - front view



Recessed box - rear view



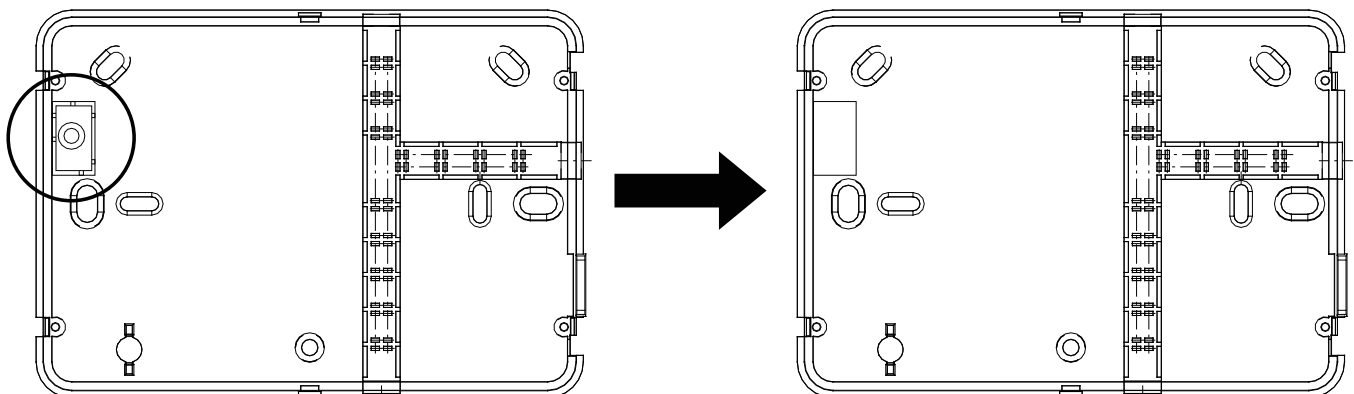
The recessed box for flush mounting is an optional accessory that shall be ordered based on the color of the keypad you need to install.

The **ANIMABOX** model is designed for use with the ANIMA keypad: the frame and the box are black. The **ANIMABOXB** model is designed for use with the ANIMAB keypad: the frame and the box are white.

Important: pay attention to the flush-mount depth during installation.

The dashed line indicates the level of the finished wall, plaster and tiles included.

To use protection against removal with flush mounting, tear off plastic plate on keypad base in order to expose microswitch.





Insert the keypad inside the frame supplied with the flush mounting box.

Move the keypad to the base. Lean the keypad on the flaps on the frame.

Screw the keypad to the flaps using the 4 screws supplied.



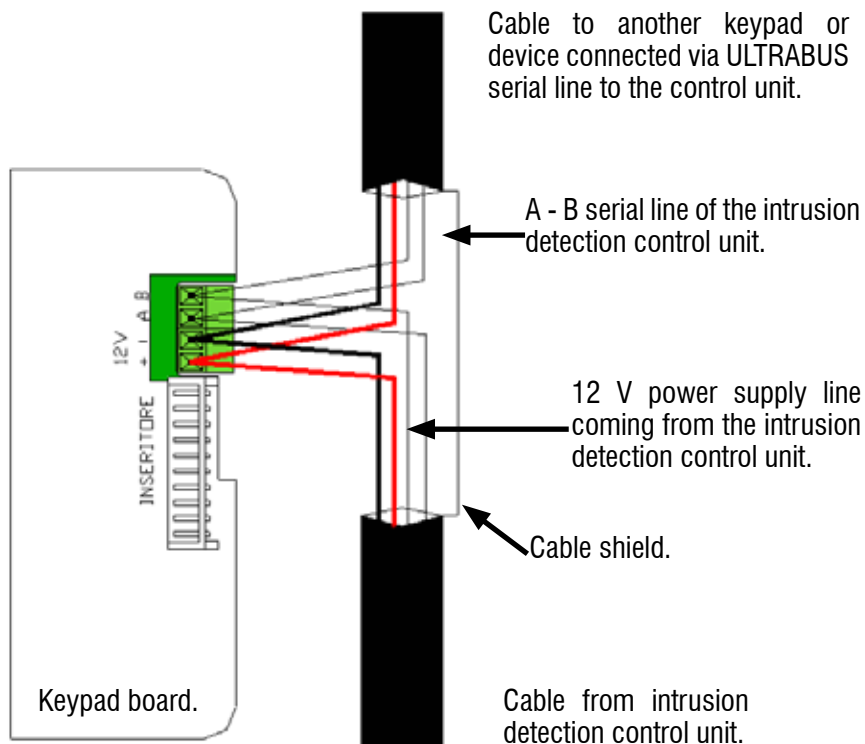
Insert frame/keypad in the recessed box already positioned on the wall.

Applying a slight pressure to the frame, hook the frame/keypad to the box.

In case you need to extract the keypad, use the two slits above and below the frame.

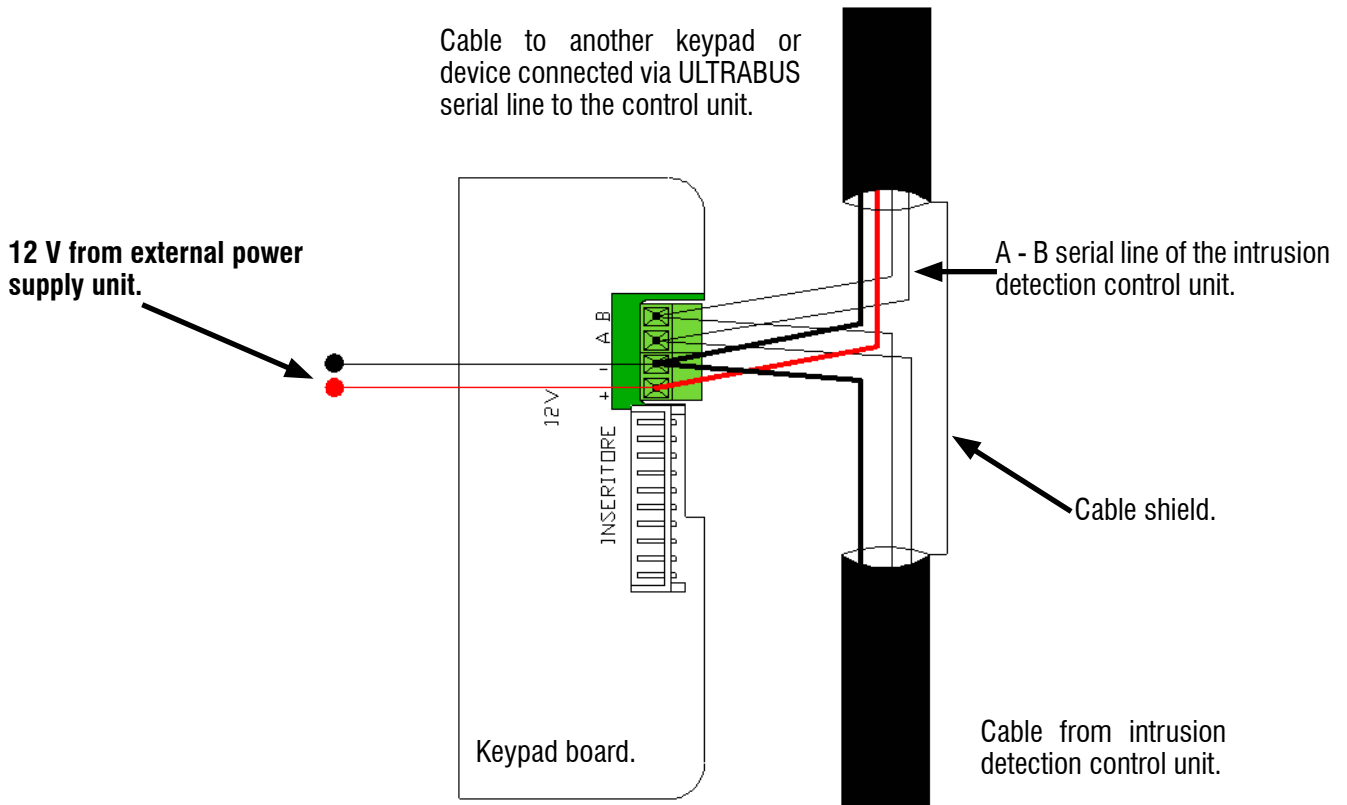
5. WIRINGS

5.1 Connection to the control unit via ULTRABUS serial line



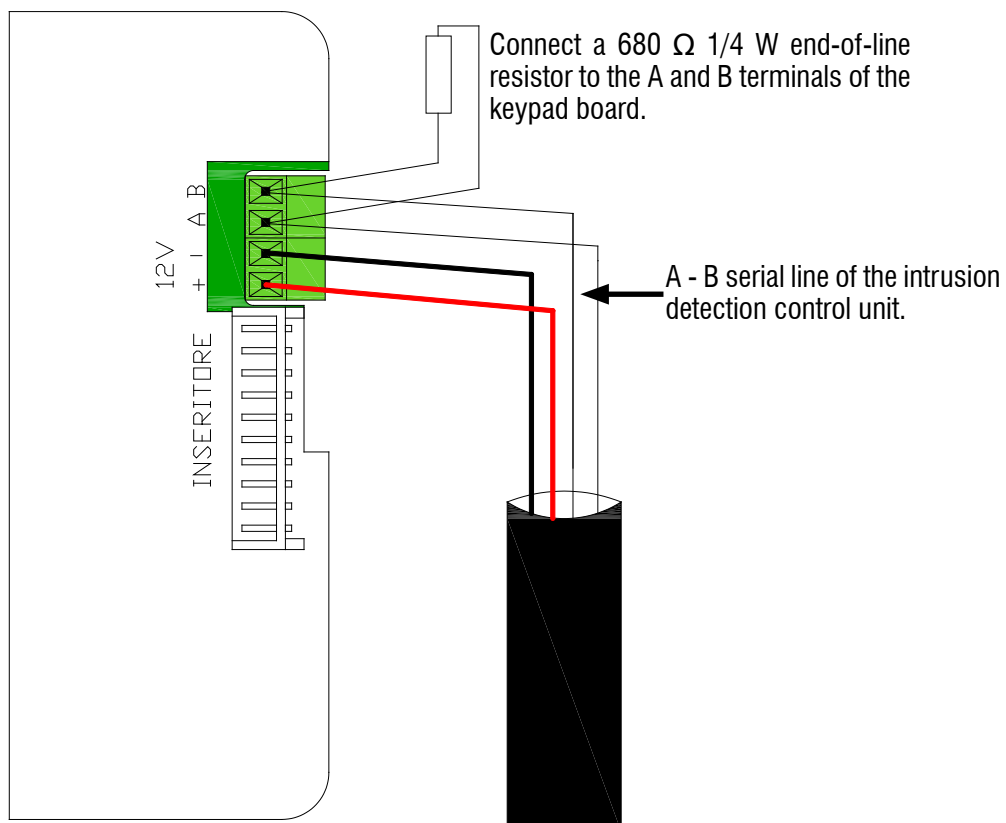


5.2 Keypad connection through ULTRABUS serial line with external power supply



5.3 Connection of the keypad as last device of the ULTRABUS serial line

If the ULTRABUS line is branched, place the end-of-line resistors at the end of the two longest and distinct branches that start from the control unit (if the control unit is at the end of the line, place one resistor at the control unit).

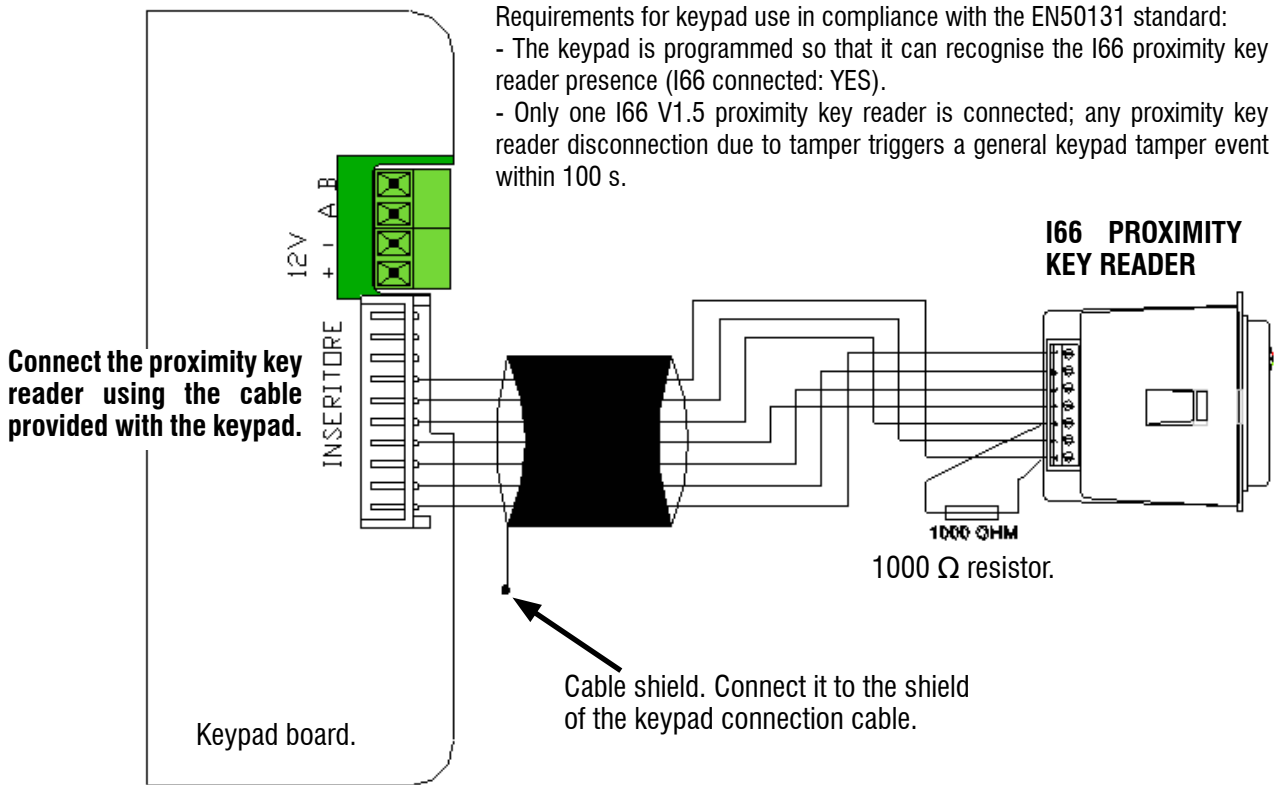




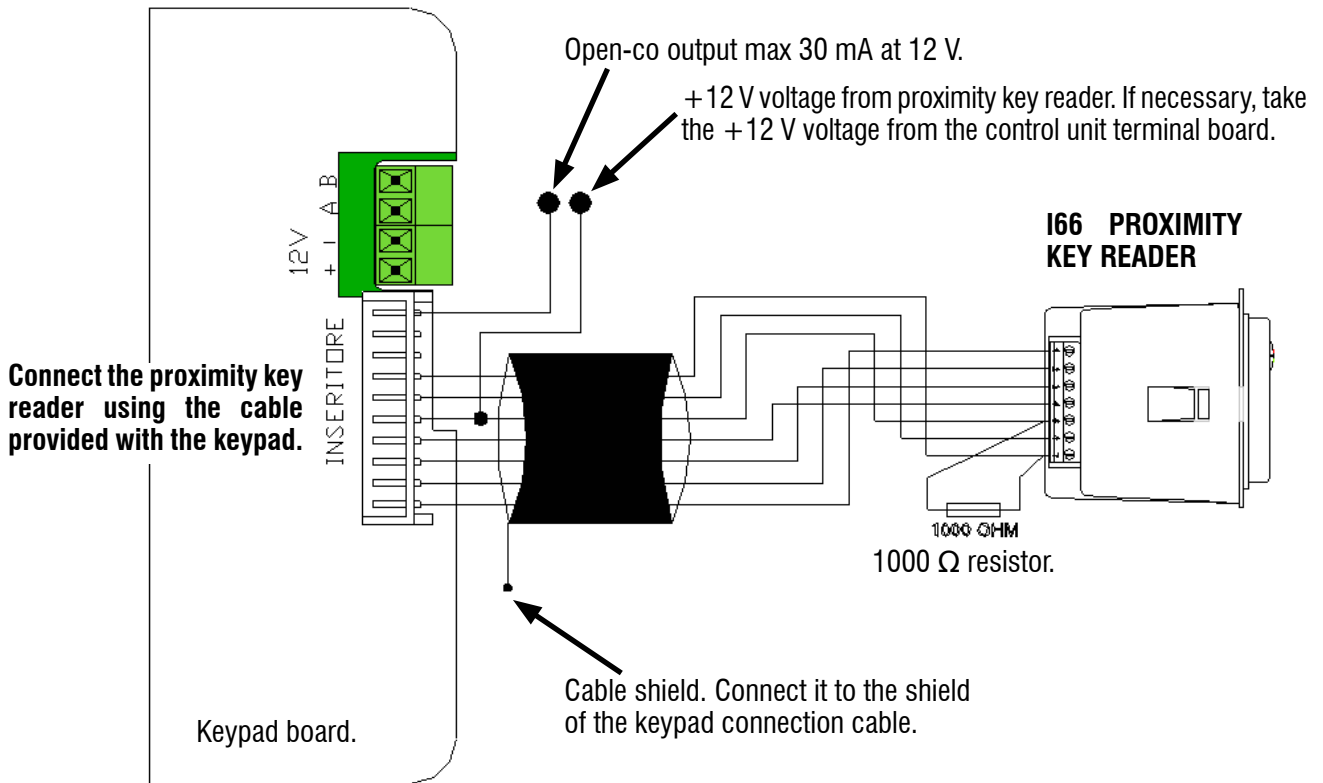
5.4 Proximity key reader connection

Requirements for keypad use in compliance with the EN50131 standard:

- The keypad is programmed so that it can recognise the I66 proximity key reader presence (I66 connected: YES).
- Only one I66 V1.5 proximity key reader is connected; any proximity key reader disconnection due to tamper triggers a general keypad tamper event within 100 s.

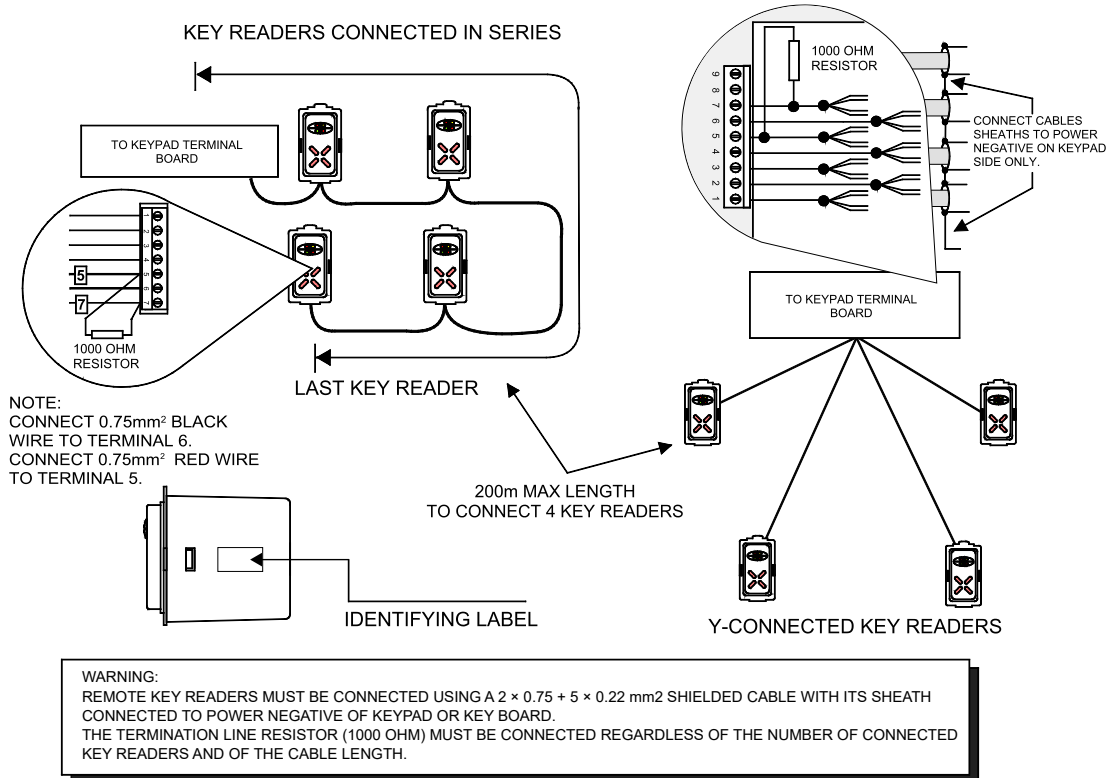


Output connection to the keypad (available only with some control unit models).





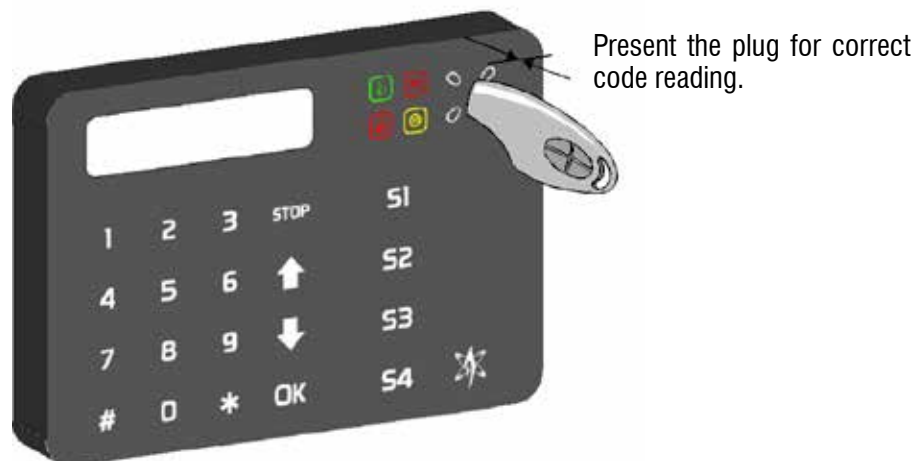
5.5 Possible connection of multiple readers to the keypad (not compliant with the EN50131 Standard)



5.6 Operation with M4 electronic key

To perform any operation with the M4 key, just present it to the sensible area of the ANIMA keypad or to the corresponding area of the I66 and I7 proximity key readers.

The control unit recognizes the M4 key owner and performs the command.



Signalling of the I66 key reader connected to the ANIMA keypad and to the NET832 control unit (IMQ) in EN50131-3 mode.

Note: the indications will be visible or not according to control unit configuration (standard mode or EN50131-compliant mode). For more details, see the manual of the specific control unit model.



6. FUNCTIONS

6.1 Functional features

The keypad is connected to the control unit bus dedicated to the peripheral devices. It integrates the “ETR” protocol (it is compatible with the control units listed in 6.3 section); the capacitive keyboard is also equipped with a configuration menu that allows the adjustment of the following functional parameters without opening the housing:

- A. Address definition (Default 1).
- B. Idle keys brightness definition (On/Off).
- C. LED indicators brightness definition (On/Off).
- D. Stand-by mode:
 - All ON with the idle brightness (default).
 - LCD ON with idle brightness, signalling of status and armed sectors.
 - All OFF.
- E. Buzzer enabling.
- F. Proximity sensor enabling.
- G. I66 - I7 tamper enabling.
- H. Keypad tamper enabling.

6.2 Symbols/keys table

| KEY | 1 st | 2 nd | 3 rd | 4 th | 5 th |
|----------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1 | 1 | @ | + | - | / |
| 2 | A | B | C | 2 | ! |
| 3 | D | E | F | 3 | “ |
| 4 | G | H | I | 4 | = |
| 5 | J | K | L | 5 | (|
| 6 | M | N | O | 6 |) |
| 7 | P | Q | R | S | 7 |
| 8 | T | U | V | 8 | ^ |
| 9 | W | X | Y | Z | 9 |
| 0 | Space | 0 | . | , | : |

6.3 Keypad compatibility with the EL.MO. control units

| | VIDOMO | VIBASIC VICOMPACT HELIOSD | TITANIA Series | ETR G2 series ETR100M ETR48M | NET9 NET832 | Serie EASY | PREGIO2000 | ET4 |
|-------------------------|--------|---------------------------------|-------------------|------------------------------------|----------------|---------------|------------|-----|
| ANIMA ANIMAB | √ | | √ | √ | √ | | √ | √ |



6.4 Programming menu

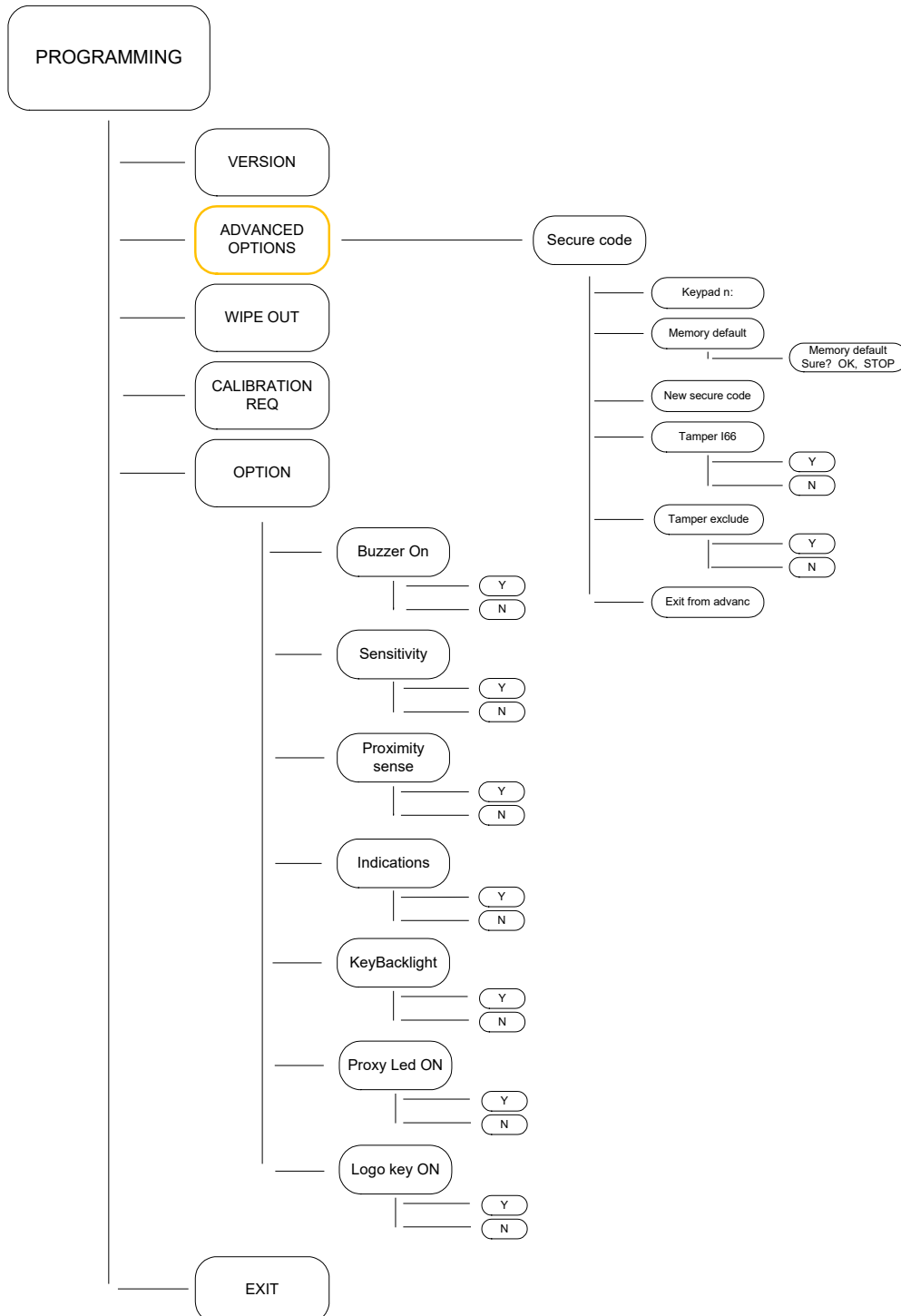
The ANIMA capacitive keypad features a procedure that allows to change the operating settings through the programming menu. Two menu sections are available:

BASE OPTIONS menu: it includes functional options that can not compromise the system safe operation.



ADVANCED OPTIONS menu: it includes the device operating parameters that are related to the control unit operation.

The basic options can be directly accessed by anyone who enters the programming procedure, while the advanced options are protected by a customizable security code.

Diagram of the programming menu.







To access the programming menu, press and hold the   key for more than 5 seconds.

When you enter the procedure, the following message appears:

PROGRAMMING
Version

The first line (PROGRAMMING) indicates that you are in the programming menu, the second line (Version) indicates the sub-menu.

While you are inside this menu, the   key blinks.

To browse the menu, refer to the table below:

| KEY | DESCRIPTION |
|------|--|
| ↑ ↓ | Browse the menus. |
| OK | Access single menu or select/deselect an option. |
| STOP | Exit from sub-menu. |

6.5 Version

Display the firmware version of the keypad.

Firmware 1.0
Version

6.6 Options

Display the keypad settings.

PROGRAMMING
Options

- BUZZER ON** Press Y to enable the buzzer, N to disable the buzzer.
Default: Buzzer On = Y.
- SENSITIVITY** Adjustment of the key pressing sensitivity.
There are two sensitivity levels: High sensitivity (press Y) - Low sensitivity (press N).
If the sensitivity is set as Low, the keys will be harder to press. **Default:** High sensitivity = Y.
- PROXIMITY SENSOR** Lightly touching the keypad surface activates the screen backlight. Press Y to enable, N to disable this function.
Default: backlight disabled = N.
- INDICATIONS** All the status signals are disabled and the display backlight switches off;
ON indications: Y - OFF indications: N.
Default: active indications = Y.
Note: You cannot set INDICATIONS = N if backlight = Y (an error beep is emitted).
- KEY BACKLIGHT** Configuration of the key backlight;
Y key = the keys and the display are weakly backlit;
N key = the keys completely switch off, the display is weakly backlit.
Default: the keys and the display are weakly backlit = Y.
Note: You cannot set "Key backlight = Y" if INDICATIONS = N (an error beep occurs).



PROXY LED ON This option allows to keep the LED indicators of the key reader (integrated in the keypad) ON with weak lighting even when the keypad indications are set to OFF.

Y key = reader backlight ON;
N key = reader backlight OFF.

LOGO KEY ON This option allows to keep ON only the logo key (this key displays two gearwheels in the ANIMAB model) when all the keypad indications are set to OFF, in order to signal the position of the keypad in low light conditions.

Y key = logo backlight ON;
N key = logo backlight OFF.

6.7 Exit



Use this menu item to exit the programming procedure and store all the changes in the non-volatile memory. Access this menu item using the **↑** **↓** keys or pressing the “STOP” key twice.

Note: after you have pressed the “OK” key to leave the programming menu, the “Exit” display message blinks until the control unit updates the display (max 1 minute), or until the “OK” key is pressed again.

Note: if the SENSITIVITY parameter has been changed, upon leaving programming the keypad will perform a calibration as described in the “6.9 Calibration request” section.

Note: If you do not press any key for 1 minute, the keypad will automatically leave the programming procedure after saving the changes made until that very moment in the non-volatile memory.

Note: a few seconds after leaving programming, the messages concerning the normal control unit operation will appear on the display. If this does not happen, check the address in the “Advanced Settings” menu, or check the electrical wirings have been carried out properly.

6.8 Wipe out

This function allows the inhibition of any capacitive key, in case one needs to clean the keyboard front panel. After about 32 seconds, the keypad full functionality will be restored (this will be signalled through “beep” tones).



6.9 Calibration request

Use this menu to perform a re-calibration of the capacitive sensor. When the function is activated, the “Wait calibrating” message appears and persists for about 3 seconds.



During this time interval, move your hands away from the keyboard so that the calibration is no way affected. Then the calibration phase will start, as displayed on the screen. The calibration lasts about 8/10 seconds.





Once the calibration is completed, the following message appears:

Calibrating OK

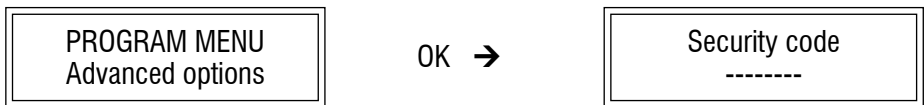
Note: once the calibration of the capacitive sensor is completed, the keypad will automatically exit the programming menu; all changes made up to that moment will be saved.

Note: move your hands away from the keypad within 3 seconds from calibration start.

6.10 Advanced options

Once you select “Advanced Options” from the main menu, you will be asked an 8-digit security code.

Default: 88888888



The advanced operations include the following functions:

KEYPAD ADDRESSING: if you press OK, the keypad address will start blinking; you can edit it using the **↑** **↓** keys. Once you have defined it, press the “OK” key.

Keyboard n 1

EXIT FROM ADVANCED: Exit from protected section and return to normal programming section. This function does not imply the memorization of the changed settings: they will be memorized only by using the “Exit” menu.

MEMORY DEFAULT: It allows to restore the keypad factory settings.

When entering this menu, if you press the OK key you will have to provide a confirmation action:

Memory Default
Sure? OK, STOP

Press the “STOP” key to cancel the action; press the “OK” key to restore the factory settings.

This operation does not change the set Security Code. To reset the security code, perform the factory reset after inserting the S1 jumper (see “7.4 Factory configuration restore” section on page 19).

NEW SECURITY CODE: use this menu item to change the password for accessing the keypad advanced features.

New Secure Code

From the “New Secure Code” menu, press “OK” to proceed with code change.

Secure Code

Type the new 8-digit code and press the “OK” key. Press the “STOP” key to exit the “Advanced” menu.



TAMPER I66: It is possible to activate/deactivate the I66 key reader presence check. If the control is active, in case the I66 key reader is missing, a keypad tamper event will be triggered.

N key = not active; Y key = active. **Default:** not active.

TAMPER EXCLUDED: It is possible to activate/deactivate the tamper of the capacitive keypad.

N key = activated; Y key = excluded. **Default:** activated.

7. OPERATION

7.1 Power-On

Upon keypad power-on, the initialization procedure will be launched. The keypad firmware version will appear on the screen; after few seconds the calibration of the capacitive keypad will start: once performed, the keyboard will be operative.

Note: move your hands away from the keypad within 3 seconds from calibration start.

7.2 Backlight power on

The capacitive keypad has two operating states: the **operative** state and the **idle** state.

During operative state, all the keys are backlit and a command is sent to the control unit anytime a key is pressed.

During idle state, all the keys (or some) are off. The keyboard will be made operative upon any keystroke; from this moment on, the corresponding command will be sent to the control unit anytime a key is pressed.

Key backlight = Y, Indications = Y

With this selection, the keypad never enters the idle state.

Key backlight = N, Indications = Y

From the last keystroke, the keypad backlight remains active until it receives a shutdown command from the control unit.

Upon reception of this command, the following keys will turn off:

- Numeric keys;
- *, #, STOP, OK keys;
- the sector keys related to the disarmed sectors.

Pressing any key, the keypad will NOT send any command to the control unit but only exit the idle state.

If you do not press any other key within 10 seconds, the keypad will automatically enter the idle state again.

If the proximity function is active, it is possible to enter the operative mode by placing the hand near the keypad.

Key backlight = N, Indications = N

From the last keystroke, the keypad backlight remains active until it receives a shutdown command from the control unit.

Upon reception of this command, the following keys will turn off:

- Numeric keys;
- *, #, STOP, OK keys;
- the sector keys (included the ones related to the armed sectors);
- status signals.

The four LEDs that normally indicate the M4 key approach, keep flashing in case of fault, alarm, tampering or any status memory.

Pressing any key, the keypad will NOT send any command to the control unit but only exit the idle state.

If you do not press any other key within 10 seconds, the keypad will automatically enter the idle state again.

If the proximity function is active, it is possible to enter the operative mode by placing the hand near the keypad.

Note: it is possible to enable "PROXY LED ON" and/or "LOGO KEY ON" only in this conditions.



7.3 Panic

The panic function can be activated by **pressing the * and # keys simultaneously**.

7.4 Factory configuration restore

Use the following procedure to restore the factory configuration parameters:

1. Open the keypad.
2. Insert the S1 jumper (see picture on page 5).
3. Power on the keypad or perform a reset from control unit.
4. The MEMORY DEFAULT message will appear.
5. Remove the jumper: some beep tones will be emitted as confirmation.
6. Remove power supply and then provide power supply to the keypad again, or perform a reset from control unit.

Solutions for some keypad issues:

| ISSUE | SOLUTION |
|---|--|
| The keypad backlight turns on independently, or the backlight never switches off. | <ol style="list-style-type: none"> 1. Perform a re-calibration. 2. If even after the recalibration the keypad backlight remains on, disable the proximity sensor function. |
| After leaving the programming menu, the "Exit" message persists. | <ol style="list-style-type: none"> 1. Check the keypad has been acquired in the control unit. 2. Check connectivity of the ULTRABUS RS-485 bus. |
| After leaving the recalibration procedure, the "Calibrating OK" message persists. | <ol style="list-style-type: none"> 1. Check the keypad has been acquired in the control unit. 2. Check connectivity of the ULTRABUS RS-485 bus. |

7.5 Control unit special reset

The control unit special reset can be done according to the usual procedure (press and hold the "OK" key + control unit reset). It is not possible to perform the control unit special reset pressing the "OK" key + control unit power on, therefore the correct installation procedure is:

1. turn ON the system;
2. let the keypad calibration be performed;
3. perform the special reset by pressing the "OK" key + control unit reset (in this case the calibration will be by-passed).

TOUCH CALIBRATION AT THE RESET/POWERON

Upon keypad reset/power on, the firmware version will be displayed for 1 second; then the control unit will enter the calibration mode, showing "CALIBRATING". After about 10 seconds, the "Calibrating OK" message will appear.

The calibration will set the sensitivity of the keys to the value set in the "SENSITIVITY" menu.

Once the successful calibration has been confirmed through the "Calibrating OK" message, this message will persist on the display until the control unit updates the display (max 1 minute), or until the "OK" key is pressed again.

AUTOMATIC TOUCH CALIBRATION

Anytime the capacitive keypad parameters are detected as abnormal due to environmental reasons, an automatic recalibration will take place with the same display messages as described above.

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