

ergo wls

MULTIFUNCTION LCD WLS KEYPADS

KSI2100022.301

KSI2100022.302



Ksenia
security innovation

INTRODUCTION

The new Keypads of ergo wls series with Wide Dot Matrix LCD Display have been added to the controls, and programming and managing user interfaces for Ksenia lares Control Panels.

TECHNICAL DATA

MAIN FEATURES	ergo wls
Wide Dot matrix LCD display (viewing area 79 x 19 mm)	●
Integrated Microphone and Speaker	●
“Fast Addressing System” *	●
Remote listening function	●
Master programming for gemino and duo UNIVERSAL	●
Power (only wls mode) Battery KSI7203019.000	non rechargeable Lithium battery pack
Power (wls and bus mode)	3V / 1900 mA/h
Power (wls mode and row of docking station) Battery KSI7203709.000	rechargeable Lithium battery pack 3,7V 900mAh
Consumption	15mA standby, 200mA max
Operating temperature range	5° - 40° C
Overall Dimension	163 X 119 X 14,5 mm
Weight	240 g
Protection degree	IP 34
White version	KSI2100022.301
Black version	KSI2100022.302

* “Fast Addressing System”: pas besoin de prérégler l'adresse de l'appareil (détection automatique par la centrale lares / communicateur)

Warning: Use only the original Ksenia Security batteries. In order to avoid damage to the device and to Keep the safe device operation guaranteed, it's recommended to replace the battery within one month from the faulty battery signal.

Warning! A battery may explode if incorrectly handled: do not recharge, open or burn it.

FIGURE 1 - FRONT VIEW OF THE KEYPAD BASE

- ①③ Easy open hole to be opened to Built-In installation on DIN 530 box
- ①② Eyelets for 60mm-screws-distance boxes
- ④ Place a wall mount screw to enable anti opening and removal tamper
- ⑤ Speaker
- ⑥ Cable gland
- ⑦ USB connector

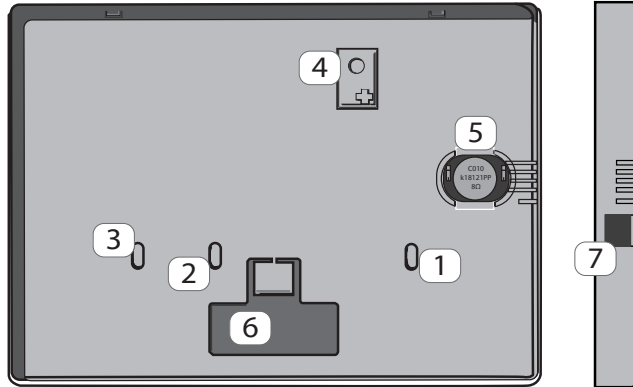
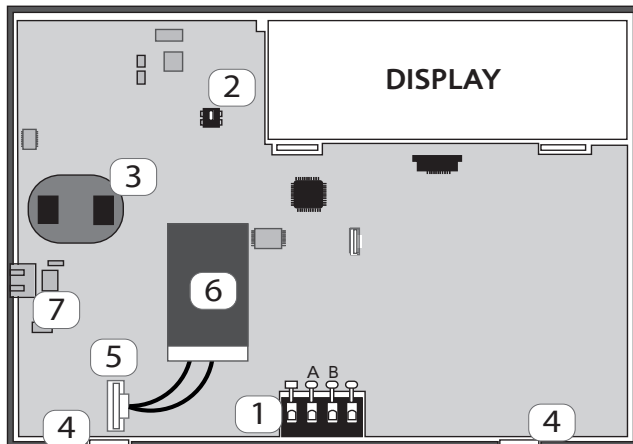


FIGURE 2 - PARTS DESCRIPTION AND PCBA TERMINALS

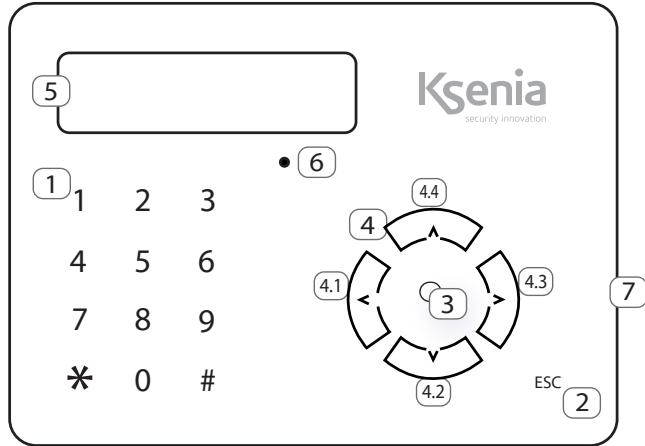
- ① + A B - : Connection clamps on KSI-BUS
- ② Anti opening / tamper switch (Tamper)
- ③ Loudspeakers contact
- ④ Snap fingers
- ⑤ Battery Connector
- ⑥ Battery Pack
- ⑦ USB connector



Note: DO NOT REMOVE PCB AND DISPLAY FROM PLASTIC SUPPORT

FIGURE 3 - FRONT

- 1 Alphanumeric keypad with 1 a 9, * and # keys
- 2 ESC key
- 3 ENTER key
- 4 Scroll, also including:
 - 4.1. Left arrow
 - 4.2. Down arrow
 - 4.3. Right arrow
 - 4.4. Up arrow
- 5 Display
- 6 Audio mic hole
- 7 USB Connector

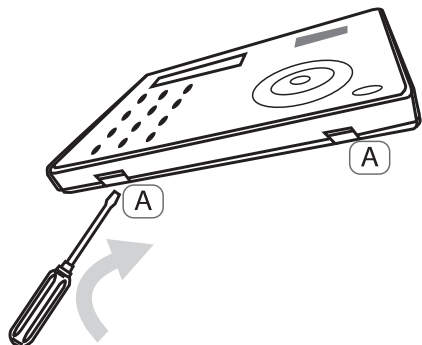
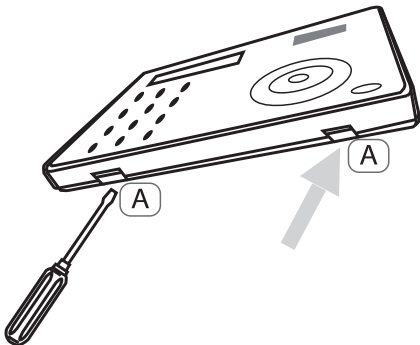


ergo wls

FIGURE 4 - OPENING

To open the keypad, please proceed as follows:

- 1 Push snap fingers (A) using a screw driver
- 2 Pull outward



OPERATION MODES

ergo wls can be set to operate in six different ways:

Mode 1 - Wireless keypad with non-rechargeable battery

Mode 2 - Wireless keypad with rechargeable battery

Mode 3 - Wired keypad (technical features as ergo M) on the docking station,
or wireless if removed (with rechargeable battery)

Mode 4 - Wired keypad (technical features as ergo M) but with wireless receiver (without battery)

Mode 5 - Wired keypad (technical features as ergo M) but with wireless repeater (without battery)

Mode 6 - Wired keypad (technical features as ergo M) (without battery)

SELECT OPERATING MODE 1 (NON-RECHARGEABLE WIRELESS KEYPAD)

Inserting and connecting a non-rechargeable battery type KSI7203019.000, ergo wls keypad ONLY works in mode 1 (wireless keyboard with non-rechargeable battery).

Note: the device notify the exit time and pre-alarm entry time, if the "AUDIO ALERT IN/OUT" function is enabled in the system.

ACQUISITION

1. Turn on the acquisition mode from the control panel.
2. Press and hold the ESC key on your keypad until you see on the display the message "Enroll Posted!"
3. If the acquisition is successful, on the keypad is displayed the message "Enroll Done!"
4. Refer to the manual of the control panel for details.

OPERATING MODE 1 (NON-RECHARGEABLE WIRELESS KEYPAD)

When not in use the keypad is put in the state of energy saving and leaves off both the display and the back-light. Pressing any button on the device turns on and the display shows the system status. At this point you can enter the user PIN to perform disarming / arming actions or to access the user menu. If the number key is held down for more than 1 second, the keypad goes directly from the state of energy saving to the PIN input without going through the status display. Instead, with a pressure of about 3 seconds of the number keys 1 to 6, it is available the execution of a scenario. After performing the desired action, the keypad returns to the energy saving state by pressing the ESC key and after 10 seconds of inactivity. During the use, if the keypad for any reason failed to send the command to the control panel, the display shows the "KO Communication" message.

VIEWING THE STATE OF THE SYSTEM

As stated above, the system status display can be enabled on the keypad display by briefly pressing any key. On the first line, in order of priority, the information displayed is:

MAINTENANCE	It is in progress a maintenance by the installer. In this state, the control panel does not process alarms or sabotage.
TAMPER	It is an ongoing tamper
ALARM!	It is an ongoing alarm
TAMPER MEMORY	This is a tamper alarm memory in the system
ALARM MEMORY	there is an alarm memory
FAULTS IN PROGRESS	there is at least one fault
TIME ENTRY	It is in progress the entry time
TIME OUT	It is in progress the exit time
EXCLUDED SENSORS	there is at least one manually excluded sensor
SYSTEM OK	there are no anomalies

The second line of the display shows the following information:

- Date and time
- Arming/Disarming state of the system
- System ready or not ready to arm
- Outdoor temperature (if in the system there is also a Ksenia siren imago WLS)

USER MENU

For system management there is also a short user menu. To enter the User menu simply enter one of the programmed user codes (default 000001) and press ENTER.

The options on this menu are:

- Reset Alarms: allows you to stop any alarms in progress, and delete any memories.
- Reset Phone: allows you to stop any Contact ID actions.

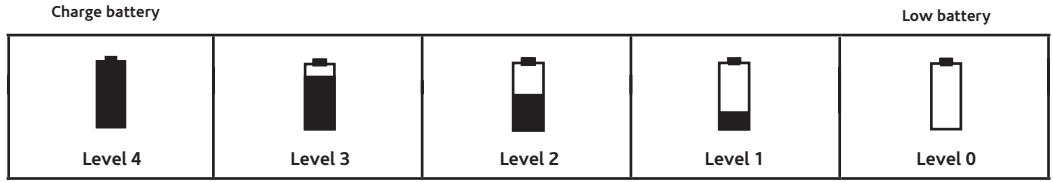
ACTIVATION OF ARMING/DISARMING MODE

To activate one of the four possible arming mode follow the steps below:

- Enter, while the keypad is in rest condition, one of the programmed user code (default 000001)
 - Press the button (1) Arming,
 - Press the button (2) Partial arming 1,
 - Press the button (3) Partial arming 2
 - Press the button (0) Disarming.
- If the system is ready to arm displays a success message.
If, however, there are the causes that prevent the arming (for example violated sensors) the display shows the system not ready message.
Pressing the ENTER button displays the causes that prevent the arming
- If the cause that prevents the arming is that one or more sensors are violated, this can still be forced excluding them one by one. To do this, simply press the ENTER button when viewing the sensors that prevent the arming. Once excluding all sensors violated, even by pressing the ENTER key, the arming is forced. The sensors excluded at this stage will be re-included automatically when the system is disarmed.

BATTERY LEVEL

The keypad continuously checks the level of battery power and displays it on the display using the symbology described below:



BATTERY REPLACEMENT

- 1 Open the front panel of the keypad, as described in Fig. 4 (PART DESCRIPTION) (OPEN)
- 2 Disconnect the old battery pack (6), Fig. 2 (PART DESCRIPTION)
- 3 Connect the new battery pack to the connector (5)
- 4 Close the front cover by snapping the locking hooks (4)

Warning: Use only original batteries Ksenia KSI7203019.000 To avoid damage to the device and continue to ensure the operation of the same, it is recommended to replace the battery within one month of reporting faulty battery.

Warning! A battery can explode if treated incorrectly: **not recharge, disassemble or dispose on fire.**

SELECTION OF OPERATING MODE FROM 2 TO 6

The mode of operation from 2 to 6 are selected via a menu.

To enter the menu you need to power the keypad ergo wls with a rechargeable battery or via BUS, leaving the Switch Snatch (Tamper) opened. Fig. 2 (PART DESCRIPTION).
ergo wls allows different choices depending on the type of power supply detected:

If powered with rechargeable battery possible modes are:

- Mode 1 - Remote control with rechargeable battery (the display shows "no docking bus")
- Mode 2 - keypad on docking station and remote control if removed (display shows "docking")

If powered by BUS possible modes are:

- Mode 1 - Wireless keypad with rechargeable battery (the display shows "no docking bus")
- Mode 2 - keypad on docking station and remote control if removed (display shows "docking")
- Mode 3 - Keypad + Wireless transceiver (display shows "ergo + duo")
- Mode 4 - Keypad + Wireless repeater (display shows "ergo + duo repeat.")
- Mode 5 - Only wired keypad (the display shows "ergo M only")

Using the keys **arrow up** and **arrow down** (fig. 4) you can scroll through the various menu items. Press ENTER to select the desired operating mode.

ACQUISITION

1. Turn on the acquisition mode from the control panel
2. Press and hold the **ESC** key on your keypad until you see on the display the message "Enroll Posted!"
3. If the acquisition is successful on the keypad it is displayed display the message "Enroll Done!"
4. Refer to the manual of the control panel for details.

OPERATING MODE (2) WIRELESS KEYPAD WITH RECHARGEABLE BATTERY

In mode 2 - Wireless keypad with rechargeable battery “docking bus no.”

The keypad behaves as in mode 6 (remote control), however, are active the battery charging functions via Docking Station and / or USB cable connecting a standard battery charger for Smartphone to the USB connector 7 (Figure 2 and Figure 3).

It is possible to use only batteries Ksenia KSI7203709.000 model.
Dispose used batteries according to the instructions.

MODES OF OPERATION (3) WIRED KEYPAD ON DOCKING STATION / WIRELESS KEYPAD IF REMOVED

In mode 3 - wired keypad on the docking station and wireless keypad mode if removed “docking”.

The keypad if anchored to its charging station (docking station) where wired BUS cable (A + B -) has all the functionalities of the keypad ERGO M its functions are described in section (Mode 6 “Wired Keypad”).

If removed from its charging station acts as the mode 2 (wireless keypad), the battery charging functions remain active through docking station and USB cable connecting a standard battery charger for Smartphone to the USB connector 7 (Figure 2 and Figure 3).

It is possible to use only batteries Ksenia KSI7203709.000 model.
Dispose of used batteries according to the instructions.

Warning! The battery can explode if treated incorrectly. Do not open or throw on fire
The battery is recharged by connecting a standard USB charging batteries for Smartphone from 5VDC to the keypad, or by placing the keypad in the Docking Station.

MODES OF OPERATION (4) WIRED KEYPAD WITH WIRELESS TRANSCEIVER

In mode 4 - wired keypad + transceiver Wireless (display shows “ergo + duo”),

In this configuration there is no battery to be used and the BUS cable **MUST** be wired directly to the terminal 1 fig. 2 (DESCRIPTION OF THE PARTS PCB).

Being wired BUS cable (A + B -) the keypad has all the ERGO M keypad functionalities, its functions are described in section (Mode 6 “Wired Keypad”).

The device thus configured also implements the functionality “duo”, which is a bi-directional wireless transceiver that receives information from various installed wireless devices and transmits them to the lares control panel. In this configuration the ergo wls works on BUS as two devices: a ergo M and a duo BUS. The two devices have the same serial number.

MODES OF OPERATION (5) WIRED KEYPAD WITH WIRELESS REPEATER

In mode 5 - Wired Keypad + Wireless repeater (display shows “ergo + repeat duo.”)

In this configuration there is no battery to be used and the BUS cable **MUST** be wired directly to the terminal 1 fig. 2 (DESCRIPTION OF THE PARTS PCB).

Being wired BUS cable (A + B -) the keypad has all the ergo M keypad functionalities its functions are described in section (Mode 6 “Wired Keypad”).

The device in this configured also implements the functionality “duo Repeater”, a bi-directional wireless transceiver that receives information from various installed wireless devices and transmits them to a duo BUS. In this configuration the ergo wls works on BUS as one device, ie a ergo M; also it works as a duo wireless.

The two devices have the same serial number.

MODES OF OPERATION (6) WIRED KEYPAD WITHOUT BATTERY

In mode 6 - wired keypad mode (display shows "ergo M only"),

In this configuration there is no battery to be used and the BUS cable **MUST** be wired directly to the terminal 1 fig. 2 (DESCRIPTION OF THE PARTS PCB).

Being wired BUS cable (A + B -) the keypad has all the ergo M keypad functionalities,

Warning! while using the keypad in mode 6 (ergo M only), all wireless functions are disabled.

FUNCTIONS

- Display of system status
- Display of functioning parameters (date/time, active GSM network, GSM level, etc)
- System commands (complete or partial arming, reset, activation of outputs terminals, phone calls, etc.)
- Full Programming of system parameters
- Programming of local parameters (audio volume, backlight levels and LCD contrast)
- Vocal messages recording

INSTALLATION

Ksenia ergo wls can be installed on any plain surface. Furthermore, in the back itthen are 3 easy-open holes, suitable for DIN503 and for 60mm-screw-distance boxes.

INSTALLATION ON A SWITCH BOX OR ON WALL - MOUNTED

1. Push the cable through to the opening. (fig. 1-7)
2. Fix the keypad base to the wall - box with the supplied screws through the eyelets. (fig.1-1,3)
To wall mount the keypad, use proper plugs and screws (not supplied) through the eyelets.
(fig.1, 1-3 o 1-2)
3. Use a plug and the apposite screw to enable tamper functionality (fig. 1-4)
4. Connect the cables to the terminals on the rear of the keypad.
5. Close the keypad properly. (fig. 2-5)

INSTALLATION NOTES

1. At every new installation when ergo wls is switched on (but not wire to bus), the display will show the following information:
 - First line: "Ksenia Security"
 - Second Line: from the first character from the left the FW version loaded on the device (x.xx.xxx), as from the 10° character the device serial-number (six numeric characters).
And at the 16th character S or M depends on the model

DISPLAY

The display shows all the information and the data ergo wls can manage. The display can show up to 2 lines ,16 characters each, but ergo has an automatic scroll system to show 32 characters rows.

CONTRAST ADJUSTMENT

Acting on keys “Left” or “Right” when keypad is idle, a sliding bar used for contrast adjustment will be enabled. The ENTER key will store the new contrast value, the ESC key will leave value unchanged. Values will change on a 3 seconds key holding.

KEYPAD FUNCTION DESCRIPTION

KEYPAD

It is conceived for data-entering (data/character) during the configuration process, PIN entering (programmer or user) etc. By touching or exerting a slight pressure on the area corresponding to the desired number, it allows to enter alphanumeric characters (letters and symbols) in addition to 0-9 numbers , depending on the operating context (menu). This is possible because the keypad is provided with the c mobile phone mode technology, which allows to change the entered character depending on the settings (refer to the following key-characters match chart).

Two ways to move forward the display line are possible while entering a text: using another key or avoiding touching any key for 3 seconds after the last type.

Key-characters match chart:

KEY FONT:

0	0 () / % - _ # *
1	1 " 'space' ? ! , . \ ' &
2	A B C a b c 2 \$ @
3	D E F d e f 3 ; <
4	G H I g h i 4 = >
5	J K L j k l 5 []
6	M N O m n o 6 { :
7	P Q R S p q r s 7
8	T U V t u v 8 + }
9	W X Y Z w x y z 9

ESC KEY

The ESC key allows to exit the current menu, and go back to the previous level. This means that, whether in a branched menu, repeated clics on the key will be needed to get back, for example to main menu. A 2 S. pressure on the 'ESC' key when the keyboard is not used allows the activation of the cleaning function. As the name suggests, this function disable the keypad functionality for front-cleaning purposes. During the keypad block due to the activation of the cleaning function, the following information will be displayed on the "ergo" screen:

- First line: "Keypad block"
- Second line: the time for the cleaning will be marked by an increasing dot line, moving from left to right. When the line will be filled up the ergo S (ergo M) will be ready to accept commands again.

Note: to clean the device it is recommended to use a damp cloth and avoid alcohol and solvents.

ENTER KEY

The Enter key allows to enter the intended menu when browsing, to start editing during configuration phase or to confirm the input of a data during an editing session.

In this regard, the following conduct:

- When browsing the main menu, a pressure on the Enter key allows to enter the sub-menu and to keep exploring in case the menu has several branches
- When visualizing the configuration data, a push on the Enter key permits the editing of the data itself and this involves:
 - the configured object flashes if it is selectable with a predefined set through the Scroll;
 - the first character of a string flashes in case the string its being edited;
 - the first number flashes when a numeric data or a phone number is being edited.
- During the editing phase, a further pressure on the ENTER key confirms the immission or modification of the data (which will be sent to gemino or lares that will store it) and the ergo wls display permits to show: the following data, the subsequent menu or the data itself.

If "Enter" key is pushed when ergo is in standby mode, the display will show the installer's data (Name, Number or email address) if they were set during the keypad configuration. In case the installer's data were not available, the screen will display the two following default line:

<Installer>
<Information>

Slide forwards or backwards the menu entries:

- Pick the configuration data to enter (which will only be the suitable ones for the changing data) such as: character, numbers, presetted values, etc.

This area also allows to use the following functions:

- “Up arrow”. If a prolonged pressure (about 0,5 s.) is exerted on the 4.4 area of the figure 5; the same functions described for the clockwise moved scroll are activated (obviously the slide of the menu or the configuration data available during this procedure is slower since it works at 0,5 seconds steps);
- “Down arrow”. If a prolonged pressure (about 0,5 s.) is exerted on the 4.2 area of the figure 5; the same functions described for the anticlockwise moved scroll are activated (obviously the slide of the menu or the configuration data available during this procedure is slower since it works at 0,5 seconds steps);
- “Left arrow”. A prolonged pressure (about 0,5 s.) exerted on the 4.1 area of the figure 5 allows to slide backwards along a line; if settled on the last character / number to the right, this function allows to cancel in order one or more data characters / numbers until they are completely deleted;
- “Right arrow”. A prolonged pressure (about 0,5 s.) exerted on the 4.3 area of the figure 5 allows to slide backwards along a line; if it is longer than the 16 characters the ergo display can show. The forward slide can work in different ways depending on the data we are working on: if we are browsing a menu it will slide 16 characters at any one time, while during data editing it will only slide character at any one time.



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