Ksenia ergo S Multifunction LCD Keypads Installation Guide

Ksenia security innovation

ergo M & ergo S
Multifunction LCD keypads
Installation guide

KSI2100020.301 - ergo S white
KSI2100020.302 - ergo S black

KSI2100021.311 - ergo M white
KSI2100021.312 - ergo M black

Contents

INTRODUCTION

The “ergo” series keypads with Wide Dot Matrix LCD Display can control, program and manage Ksenia lares 4.0 control panels.

MAIN CHARACTERISTICS

- 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.);
- RFID Tag reading to arm and disarm the intrusion detection systems set up with the lares 4.0 devices.
- Full Programming of system parameters;
- Programming of local parameters (audio volume, backlight levels and LCD contrast);
- Touch sensitivity adjustment on 3 levels: high, medium, low. Average level of default (only for ergo S);
- Keypad functionality exclusion for front cleaning purposes (ergo S only);
- Remote Listening (ergo S only);
- Vocal messages recording.

QUANTITY DATA

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of User interf aces (ergo S/M; volo; volo-in)	3	6	24	24	40	64

TECHNICAL DATA

	ergo M	ergo S
Wide Dot matrix LCD display (viewing area 79 x 19 mm)	●	●
Keys in Capsense Technology	○	●
Mechanical Keys	●	○
RFID proximity Reader (20mm max TAGs capture area)	●	●
Integrated Loudspeaker	●	●
Remote listening function/Microphone	○	●
“Fast Addressing System”: no need to pre-set the device address (automatic recongnition from the control pannel lares 4.0)	●	●
Accurate Temperature sensor (future use)	○	●
Adjusting backlight and contrast	●	●
Power supply	13.8 Vdc	
Consumption	15 mA standby – 100 mA max	
Operating temperature range	+5°C / +40° C	
Overall Dimension	163 x 119 x 14.5 mm	
Weight	240 g	
Protection degree	IP 40	
White version	KSI2100021.311 with RFID	KSI2100020.301
Black version	KSI2100021.312 with RFID	KSI2100020.302

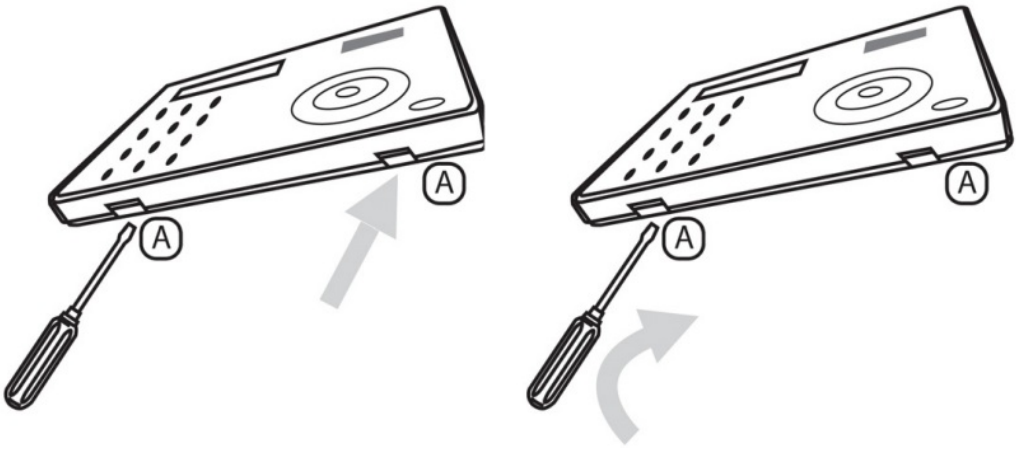
INSTALLATION

ergo S (ergo M) keypads can be installed on any plain surface. Furthermore, on the back there are 3 easyopen holes, suitable for DIN503 and for 60mm-screw-distance boxes.

STEP 1. OPENING

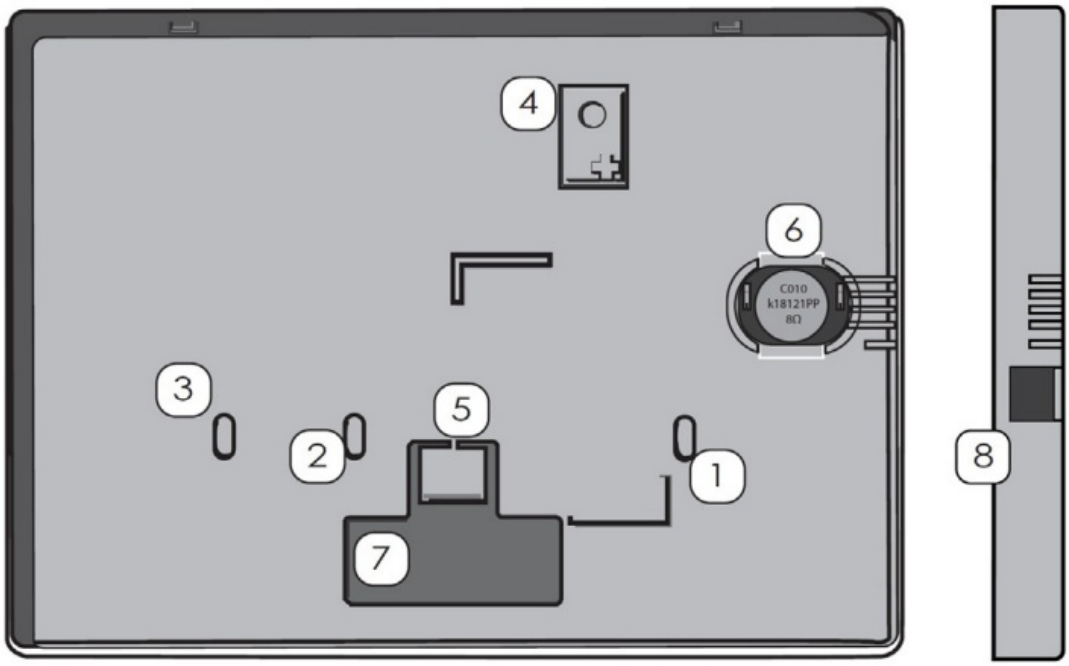
To open the keypad, please proceed as follows:

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



STEP 2. WALL MOUNTING

1. Push the cable through to the opening (7)
2. Fix the keypad base to the wall-box with the supplied screws through the eyelets (1) and (3).
3. Drill and install a screw with a wall plug to perform the tamper function (4).
   For wall mounting the keypad, use suitable wall plug (not supplied) through the hols (1-3 or 1-2).



Legend

1.-3. Easy open hole to be opened to Built-In installation on DIN 530 box

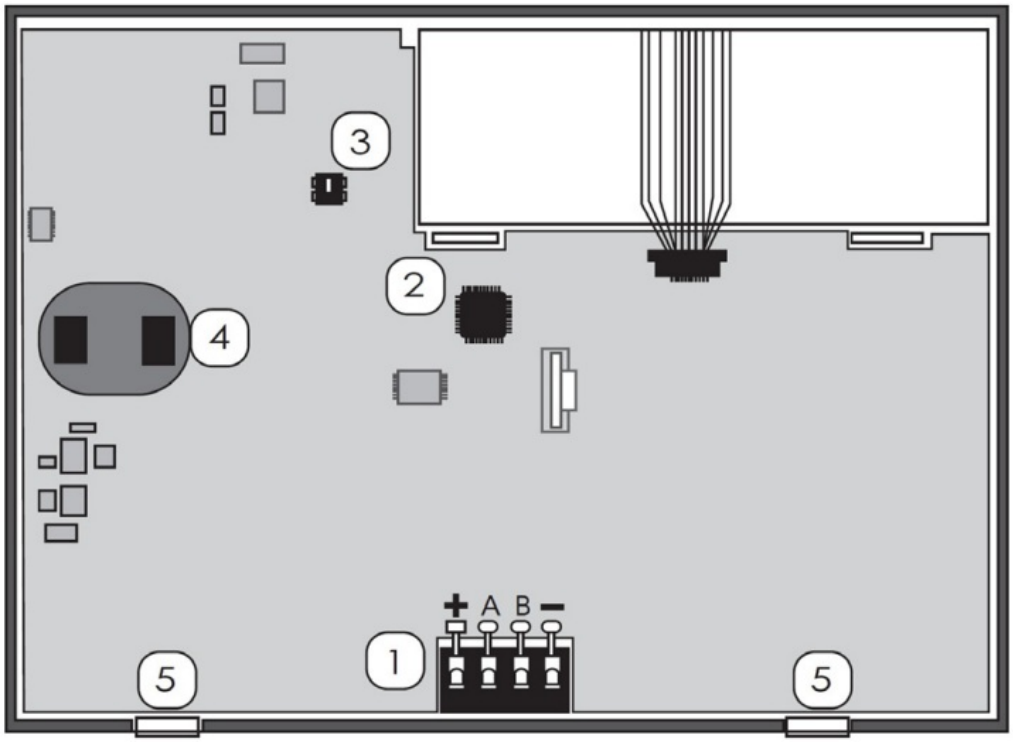
1. -2. Eyelets for 60mm-screws-distance boxes

4. Place a wall mount screw to enable anti opening and removal tamper (4)
5. Remove the part and used to close the side hole (8). The hole is reserved for future use.
6. Speaker
7. Cable gland
8. Side hole (for future use)

STEP 3. CABLING AND SWITCHING ON

1. Connect the cables to the terminals on the rear of the keypad.
2. Close the keypad properly (5).

3. At every new installation when ergo S (ergo M) is switched on (but not wire to BUS [A and B] clamps disconnected), 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), from the 10th character the device serial-number (six numeric characters) and at the 16th character S or M depending on the keypad model.

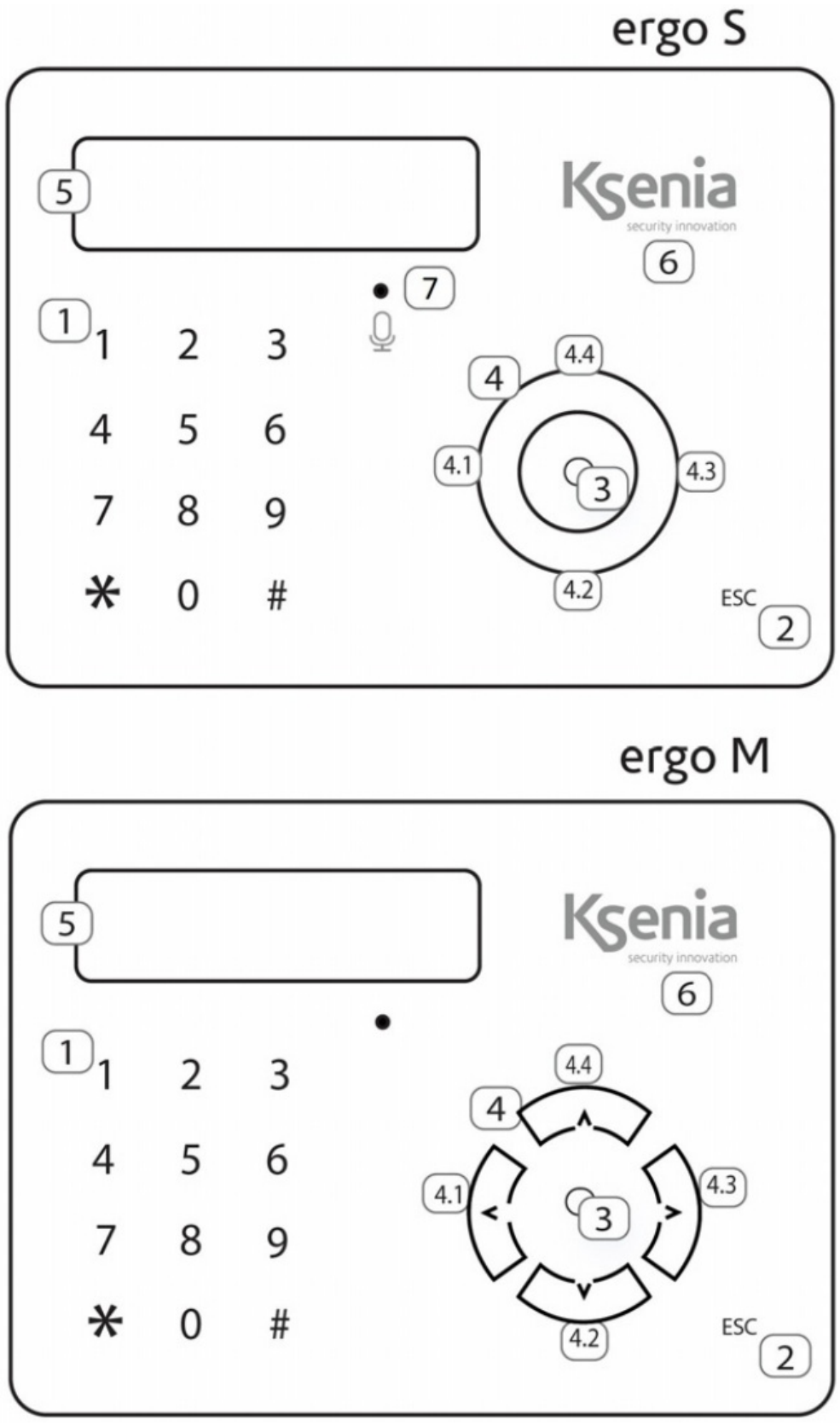


Legend

1. Connection Clamps
   + A B – : Connection clamps on KS-BUS for devices. All the devices have to be connected in parallel, it is necessary to connect each clamp with an equally named one.
2. Micro-controllor
3. Anti opening / tamper switch
4. Loudspeakers contact
5. Snap fingers

Note: DO NOT REMOVE PCB AND DISPLAY FROM PLASTIC SUPPORT

DESCRIPTION OF THE KEYPAD



Legend

1. Alphanumeric keypad with 1 a 9, * and # keys
2. ESC key
3. ENTER key
4. Scroll (ergo S) / Tatsi (ergo M), also including:
   4.1. Left arrow
   4.2. Down arrow

4.3. Right arrow

4.4. Up arrow

5. Display
6. RFID area
7. Audio mic hole

DISPLAY

The display shows all the information and the data that ergo S (ergo M) can manage, on two rows with 16 characters each also an automatic scroll system is implemented that allows you to view automatically strings up to 32 characters long.

CONTRAST ADJUSTMENT

Pressing keys “Left” or “Right” when keypad is in 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.

RFID AREA

The keypad is provided with an internal antenna that allows to detect any device that fits the RFID.

KEYPAD

It is conceived for data-entering (numbers/characters) 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 typical mobile phone mode technology, which allows to change the entered character depending on the settings (refer to the following key characters match table).

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.

Keys – Characters match table

0	( ) / % – _ # *
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 clicks on the key will be needed to get back, for example to main menu.

A two seconds pressure on the ‘Esc’ key when the keypad is in idle 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.

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

How the enter key works:

- When browsing the main menu, a pressure on the Enter key allows to enter the submenu 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 is 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 lares 4.0 that will store it) and the ergo S (ergo M) display permits to show: the following data, the subsequent menu or the data itself.

SCROLL / ARROW KEYS
Actually, “Scroll” is not a key but the zone delimited by a circle (on the right side of ergo S) (keys for ergo M) characterized by a little depression. The action on this zone clockwise (to move forward) or anticlockwise (to move backwards) permits to:

- Scroll forwards or backwards the menu entries;
- Choose the configuration data to enter (which will only be the suitable ones for the changing data) such as: character, numbers, preset values, etc.
- UP ARROW (Point 4.4)
  Long press (about 0.5 seconds) to scroll the menu or the configuration data available (ergo S/M), this procedure is slower than the clockwise scrolling you can use with ergo S since it works at 0.5 seconds steps;
- DOWN ARROW (Point 4.2).
  Long press (about 0.5 seconds) to scroll the menu or the configuration data available (ergo S/M), this procedure is slower than the anticlockwise scrolling you can use with ergo S since it works at 0.5 seconds steps;
- LEFT ARROW (Point 4.1).
  Long press (about 0.5 seconds) to slide backwards the string; 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 (Point 4.3).
  Long press (about 0.5 seconds) to slide forwards the string if it is longer than the 16 characters. 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 one character at a time.

NOTE: In a data entering phase, “Scroll” allows to quickly select the suitable values for the data we’re about to

edit. In case a string is being entered or edited, the “Scroll” allows to slide the whole characters range by its clockwise/ anticlockwise twist or by using the “Up arrow”/“Down arrow“ function to move forward or backward. If entering or editing data other than a string, the Scroll allows to slide the possible values for the individual data item.
In ergo M keypad, the scroll function is achieved by use of the 4 arrows keys.

INSTALLER MENU

Access the installer menu with a PIN code (default: 123456). You can navigate the various items by pressing the keys once you have entered the installer menu:

- ENTER: enter the sub-menu, confirm the values displayed or modified.
- ESC: exit the sub-menu, return to the previous menu, leave the installer menu.
- DOWN ARROW (SCROLL CLOCKWISE)/UP ARROW (SCROLL ANTICLOCKWISE): move from one item to another within the same menu.

A list of some installer menu items:

- Sys. management: system management with the following items:
  Reset alarm: all the alarms will be stopped, the tamper and alarm memories will be deleted.
  Stop calls: all the communications, in progress and in queue, will be deleted (SMS, phone calls, email, etc.).
  Freeze system: three possible choises
  – No freeze: normal activity.
  – Freeze alarms: no action against the alarms will be performed.
  – Freeze actions: freeze all the actions of control panel.
- User management: assign a RF-ID key to the users configured.
- Event logger: list of events occurred with details.
- Fault list: list of faults in progress.
- Zone status: view of the status of the zones configured in the system.
- Zone test: list of zones that were never been in alarm since the TEST started, useful during the installation process.
- Installer data: installer data management
  Change PIN: change installer PIN code.
  Description: installer name.
  Number: installer telephone number.
- Update: it launches the software upgrade using the file present in the SD card and previously downloaded from **www.kseniasecurity.com**, reserved area.
- Programm. Back-up :
  – Create new: backs-up any programming by saving the file on an SD card.
  – Restore: any programming data saved previously will be read from the SD card and loaded into the control panel.
- Networking: network configuration menu which allows the network parameters to be read/modified
  – IP Address: the control panel IP Address
  – Subnet mask: subnet-mask
  – Gateway: IP address of gateway

– DHCP server: OFF / ON (default ON). This menu item is activated to allow the DHCP to be re-enabled if the control panel has been set to a fixed IP address.

- Language: select the language of the keypad form the list.
- Panel version: this allows you to view the control panel firmware version (although not the web server).

How to read the control panel IP address from keypad
If the network, where the control panel is installed, supports DHCP, to read the IP address make the following operations:

- Step 1. make sure the control panel is connected to the network;
- Step 2. enter the installer menu by dialing the PIN code on the numeric keypad (default: 123456);
- Step 3. scroll the menu items up to “Networking” and press OK;
- Step 4. the “IP Address” is displayed, make a note and exit the menu by pressing ESC twice.

Then type the IP address in the browser address bar: <https://control-panel-IP-address>.
Note: The default address will be 192.168.2.97 in the event that the network to which the control panel is connected does not support the DHCP, so type <https://192.168.2.97> in the browser address bar.
NOTE: When you first switch on the keypad, the English menu will be displayed. To change the language, access the installer menu from the keypad via the webserver.

CERTIFICATIONS

ergo S	ergo M
Europe – CE, RoHS EN50131 grade 3 – class II T031:2014 SSF 1014 Larmklass 3	Europe – CE, RoHS, EN50131 Grade 3 – Class II T031:2014
RoHS 2002/95/EC	

Technical data, appearance, functionality and other product characteristics may change without notice.

ENVIRONMENTAL CARE

The product has been specifically designed and manufactured for the environment respect as follows:

1. No PVC
2. Halogen-free laminates and lead-free PCBA
3. Low consumption
4. LCD Display without mercury
5. Arsenic-free glass
6. Packaging realized mainly with recycled fibers and materials

Information for users: Disposal (RAEE Directive)

Warning! Do not use an ordinary dustbin to dispose of this equipment.

Used electrical and electronic equipment must be treated separately, in accordance with the relative legislation which requires the proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation of directives in member states, private households within the EU may return their used electrical and electronic equipment to designated collection facilities free of charge*. Local retailers may also accept used products free of charge if a similar product is purchased from them.

If used electrical or electronic equipment has batteries or accumulators, these must be disposed of separately according to local provisions.

Correct disposal of this product guarantees it undergoes the necessary treatment, recovery and recycling.

This prevents any potential negative effects on both the environment and public health which may arise through the inappropriate handling of waste.

* Please contact your local authority for further details.

Installation of these systems must be carried out strictly in accordance with the instructions described in this manual, and in compliance with the local laws and bylaws in force. ergo series have been designed and made with the highest standards of quality and performance adopted by Ksenia Security. Is recommended that the installed system should be completely tested at least once a month. Test procedures depends on the system configuration. Ask to the installer for the procedures to be followed. Ksenia Security srl shall not be responsible for damage arising from improper installation or maintenance by unauthorized personnel. The content of this guide can change without prior notice from KSENIA SECURITY.

we care

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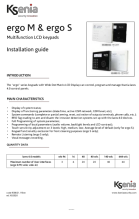	Ksenia ergo S Multifunction LCD Keypads [pdf] Installation Guide ergo S Multifunction LCD Keypads, ergo S, Multifunction LCD Keypads, LCD Keypads, Keypads

References

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