FLEXi LCD keypad – installation and user manual

Manual for the Trikdis FLEXi LCD touch keypad for the FLEXi SP3 alarm control panel: connection to the keypad bus, setup in TrikdisConfig, arming and disarming, emergency keys, user codes, zone bypass, menu language and firmware update.



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1. Overview

The Trikdis FLEXi LCD keypad, with a blue LCD screen and a touch-controlled surface, is compatible with all FLEXi SP3 alarm control panels.

The keypad shows the state of 64 zones and 8 partitions. It can also be assigned to one or more selected partitions (from keypad firmware 1.41 and panel firmware SP3_xxx4_0119): then it shows only the state of the assigned partition and its zones. You can check the keypad's firmware version with the **MENU**, **5**, **0** keys (settings menu → device information).

1.1 Main features

- Complete menu in several languages, Hungarian included (section 2.3).
- Can display and control 8 partitions.
- Blue-backlit LCD showing the most important information: system state, time, date, temperature, zones involved in an alarm, troubles, keypad settings.
- Glossy white surface with blue key backlighting.
- Touch keys.
- Adjustable lighting and volume, automatic dimming.
- Emergency function keys.
- Temperature sensor, temperature display.
- 1 zone input.
- USB input for updating the keypad's firmware.

1.2 Parts of the keypad

The top line of the display shows the date, the time, the temperature and the battery symbol, the middle the partition state, the bottom the trouble indication. The keys work by touch and are lit blue.

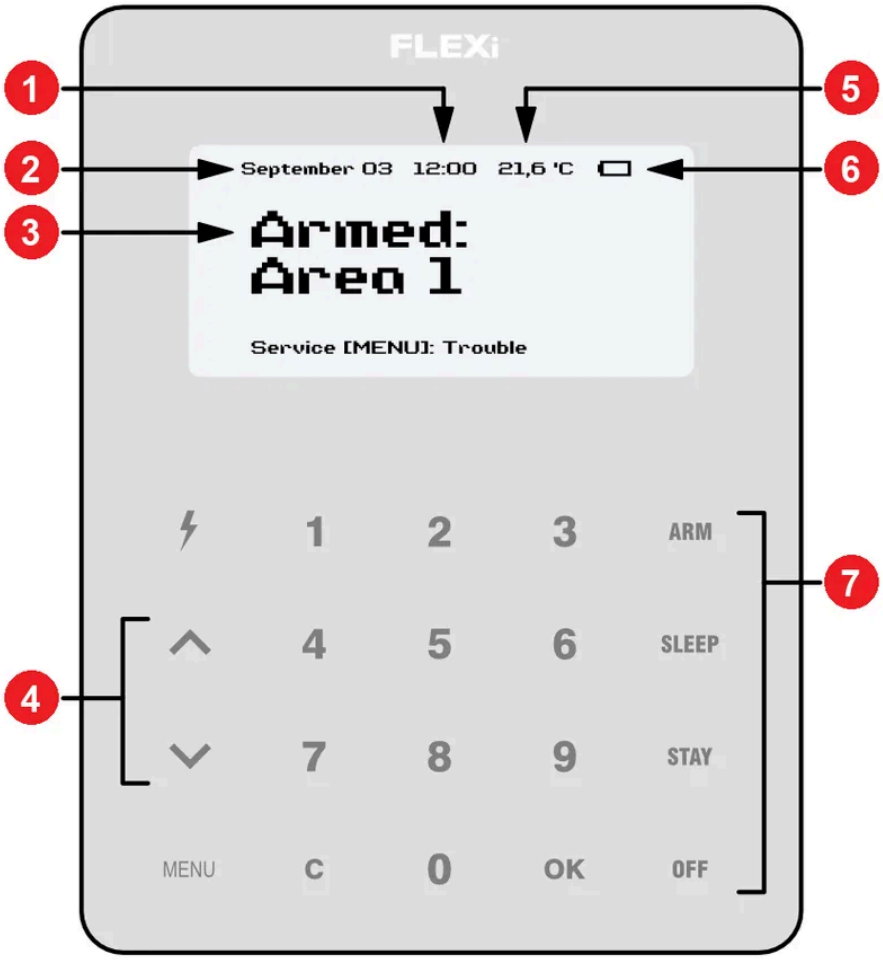


Figure 1. The FLEXi LCD keypad. The bottom line of the display: **Service [MENU]: Trouble** – there is a trouble, you can view it with the **MENU** key.

- 1 time (“Time”)
- 2 date (“Date”)
- 3 partition state (“Area status”) – in the picture “Armed: Area 1”, i.e. partition 1 is armed
- 4 navigation keys (“Navigation buttons”)
- 5 temperature (“Temperature”)
- 6 state of the panel's battery (“Battery status”)
- 7 partition control keys (“Area control buttons”): **ARM**, **SLEEP**, **STAY**, **OFF**

Key	What it is for
ARM	full arming (section 3.1)
SLEEP	Sleep mode (section 3.3); when deleting a code, the delete key (section 3.9)
STAY	Stay mode (section 3.4)
OFF	disarming (section 3.2)
MENU	the keypad's menu: zone bypass, brightness, sound, language, firmware
▲ ▼	scrolling, setting a value
0–9	entering a code and the number of a partition, zone or user; **1**, **4**, **7** held down: emergency call (section 3.5)
(lightning)	programming user codes (section 3.9); held down for 3 seconds: resetting the fire detectors (section 3.8)
C	exiting the mode, clearing the entered value

Key	What it is for
OK	confirming the selection

1.3 Technical data

Parameter	Value
Supply voltage	10–15 V DC (from the panel's AUX output)
Current consumption	25–60 mA
Display	blue-backlit LCD
Operation	touch keys
Zones and partitions	64 zones, 8 partitions
Zone input	1 (ZONE)
Connection to the panel	keypad bus, 4 wires (RED, BLK, GRN, YEL)
Firmware update	via mini-USB connector
Dimensions	152 × 117 × 22 mm
Weight	0.31 kg

Trikdis FLEXi LCD keypad

2. Wiring and setup

Figyelem!

Tilos a vezetékezést feszültség alatt álló eszközön elvégezni. A munka előtt a megfelelő áramtalanításról és érintésvédelemről (beleértve a szünetmentes működést biztosító akkumulátorokat) gondoskodni kell.

2.1 Connecting to the FLEXi SP3

- The keypad connects to the panel's **keypad bus** (**GRN**, **YEL**) and is powered from the panel's **AUX** output – no separate power supply is needed.
- Up to **8 keypads of the same type** can be connected to the keypad bus.
- The keypad's current consumption is 25–60 mA; take this into account when sizing the load on the panel's AUX output.
- Wiring: the panel's **AUX+** (+12 V) terminal goes to the keypad's **RED**, **AUX–** to **BLK**, **GRN** to **GRN** and **YEL** to **YEL**.
- The keypad has its own zone input (**ZONE**): the other end of the contact of the detector connected here goes to the **AUX–** terminal.
- After power-up, the panel automatically recognises a correctly wired keypad and adds it to the list of keypads (section 2.2).

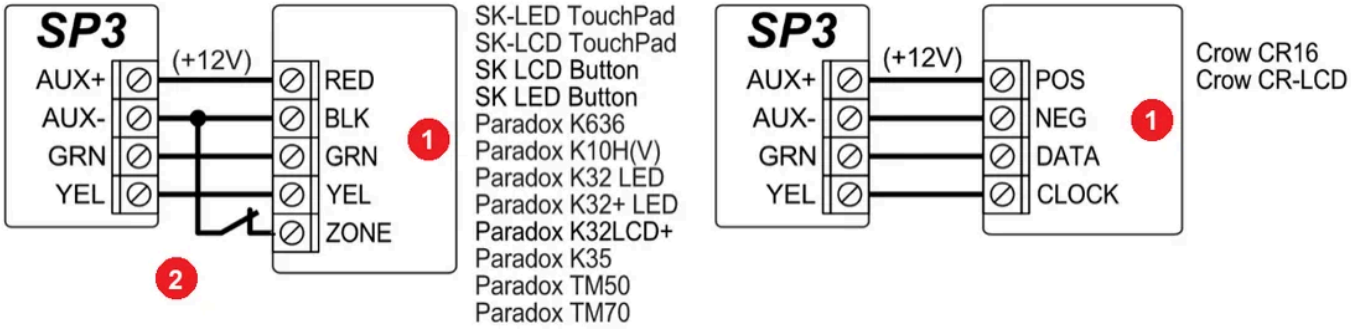


Figure 2. Wire the FLEXi LCD according to the drawing on the left (in the list: **SK-LCD TouchPad**): **AUX+** (+12 V) → **RED**, **AUX–** → **BLK**, **GRN** → **GRN**, **YEL** → **YEL**; the keypad's **ZONE** terminal goes through the contact of the zone's detector to the **AUX–** terminal. The drawing on the right is for the Crow CR16 and CR-LCD keypads (**POS**, **NEG**, **DATA**, **CLOCK**) and is not needed for the FLEXi LCD.

- 1 keypad (“Keypad”)
- 2 the keypad's zone (“Keypad zone”)

2.2 Setup in TrikdisConfig

You see and set the keypad in the TrikdisConfig window of the FLEXi SP3 panel, on the **Keypads** tab of the **Modules** page.

Az összes Trikdis eszköz egy közös szoftverrel programozható. A program neve TrikdisConfig és a gyártó honlapjáról letölthető.

TrikdisConfig Letöltés a trikdis.com oldalról.

Letöltést követően telepítsd a programot. Ha bármikor a TrikdisConfig indításakor a program azt jelzi, hogy új verzió jelent meg, töltsd le az ajánlott frissítést és telepítsd!

1. Connect the panel to the computer with a USB cable, start TrikdisConfig and read the settings with the **Read [F4]** button.
2. Open the **Keypads** tab of the **Modules** page: the serial number of the recognised keypad is shown in the **Serial** column, its type in the **Keypad type** column – both are filled in by the panel.
3. In the **Areas** column, specify which partitions the keypad may control. This requires keypad firmware 1.41 and panel firmware SP3_xxx4_0119; the keypad then shows only the state of the assigned partitions and their zones.
4. Set the **Keypad parameters** group (below).
5. Write the settings with the **Write [F5]** button.

You remove a keypad from the list with the **Remove** button, or by entering zeros in the **Serial** field.

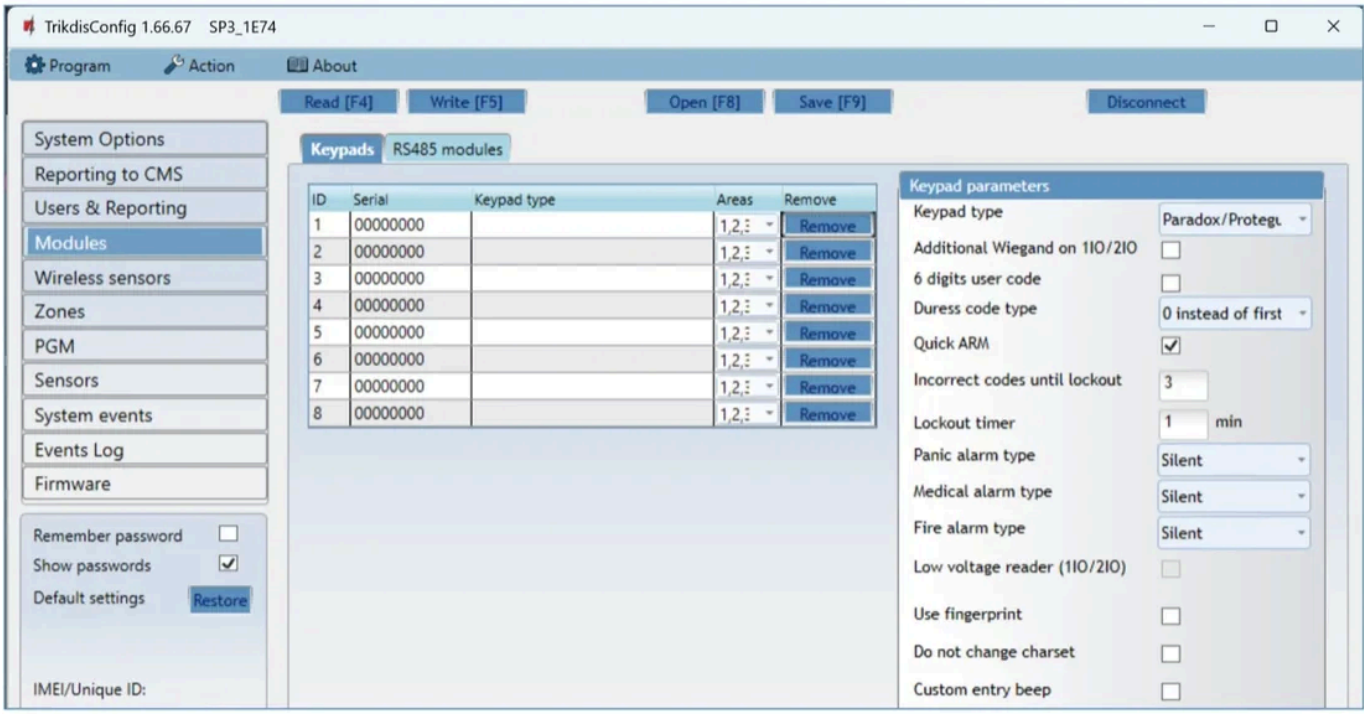


Figure 3. TrikdisConfig – **Modules** → **Keypads**: on the left the list of keypads (**Serial**, **Keypad type**, **Areas**, **Remove**), on the right the **Keypad parameters** group.

The settings of the **Keypad parameters** group that apply to the FLEXi LCD:

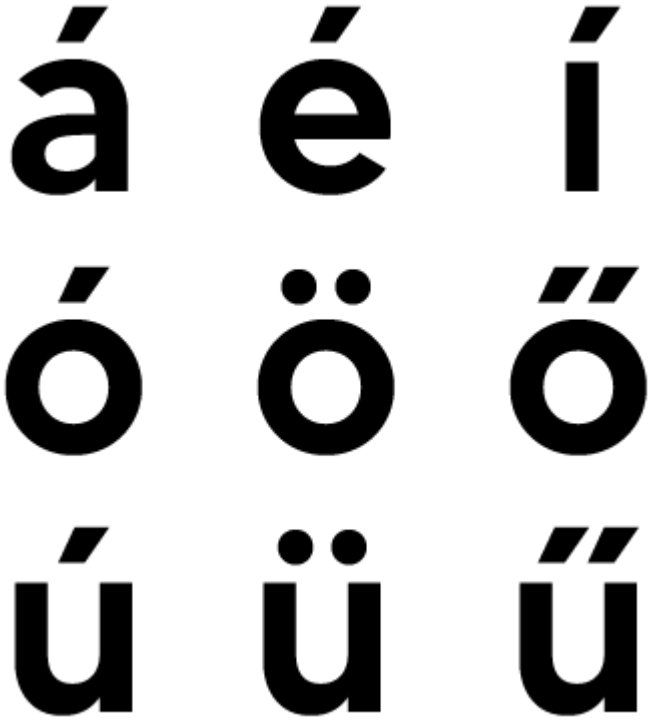
- **6 digits user code** – six-digit user code on the keypad. Existing four-digit codes are converted as follows: the first two digits of the code are added to the end (1234 becomes 123412).
- **Duress code type** – the type of the duress code. Under duress you arm or disarm with it: the system carries out the command and sends a silent alarm to the monitoring station.
- **Quick ARM** – the keypad's **ARM**, **STAY** and **SLEEP** keys arm without a code.
- **Incorrect codes until lockout** – after this many incorrect codes the keypad locks.
- **Lockout timer** – the duration of the lockout in minutes.
- **Panic alarm type**, **Medical alarm type**, **Fire alarm type** – the effect of the panic, medical and fire emergency keys (section 3.5): **Audible** – the siren sounds, the keypad gives an audible alarm, and the report goes to Protegus 2 and to the monitoring station; **Silent** – only the report goes to Protegus 2 and to the monitoring station, there is no audible alarm; **Disabled** – no report goes either to Protegus 2 or to the monitoring station.
- **Do not change charset** – when ticked, the character encoding of the zone and partition names on the FLEXi LCD is not changed.
- **Custom entry beep** – the entry delay sound on the keypad is intermittent.

2.3 Menu language and accented characters

The keypad stores 4 languages at a time. The languages of the firmware downloadable from the shop: English, Greek, Spanish and Hungarian (chapter 4).

A FLEXi LCD kezelő esetében a magyar nyelv beállításához lépj be a Menübe a MENU gombbal, válaszd a Eszközök (service) menüpontot az 5-ös gomb megnyomásával, majd nyomd meg az 1-es (language) gombot.

Miután kiválasztottad a magyar nyelvet a 4-es gomb megnyomásával, ne felejtsd el az OK gombbal elmenteni a beállítást.



To display all accented characters of Central European languages (e.g. Hungarian, Slovak, Polish, Czech) correctly, set the Character set to **Central Europe** on the General settings page of the System settings tab when programming the FLEXi SP3.

3. Operation

If the system has only one partition, selecting the partition and pressing the **OK** key are skipped – this is marked in the steps. If you made a mistake, the **C** key clears the entered characters or the command you started.

Before arming

Check that no zone is open (violated): close the doors and windows. The system cannot be armed with an open zone – close it, or bypass the zone (section 3.7). The installer can give some zones the “forced” (FORCE) attribute; these allow arming even when open.

3.1 Full arming (ARM)

1. Press the **ARM** key.
2. Enter your user code.
3. Press the numbers of the partitions you are arming (with one partition, this step and the next one are skipped).
4. Press the **OK** key.

5. Leave the building during the exit delay.

During the exit delay, the display shows the remaining time. After arming, the display shows the armed state with the number of the partition (on the English menu, for example, **Armed: Area 1** – partition 1 is armed).

3.2 Disarming (OFF)

1. Press the **OFF** key.
2. Enter your user code.
3. Press the numbers of the partitions you are disarming (with one partition, this step and the next one are skipped).
4. Press the **OK** key.

After disarming, the display shows the disarmed state (on the English menu **Disarmed: Area**). When you enter, disarm the system during the entry delay.

Quick switching

You switch the state of a partition to the opposite if you just enter your code and select the partition: an armed partition is disarmed, a disarmed one is armed. The details are in section 4.3 of the FLEXi SP3 user manual.

3.3 Sleep mode (SLEEP)

The perimeter of the building (doors, windows) is protected, you can move freely inside. If you open the entrance door, the system raises the alarm immediately.

1. Press the **SLEEP** key.
2. Enter your user code.
3. Press the number of the partition to be armed (with one partition, this step and the next one are skipped).
4. Press the **OK** key.

The mode is switched on immediately, without exit delay, and the display shows the Sleep mode state (on the English menu **Sleep: Area**).

3.4 Stay mode (STAY)

The perimeter of the building is protected, you can move freely inside. When the entrance door is opened, the entry delay starts: you must disarm the system before it runs out.

1. Press the **STAY** key.
2. Enter your user code.
3. Press the number of the partition to be armed (with one partition, this step and the next one are skipped).
4. Press the **OK** key.

The mode is switched on immediately, without exit delay, and the display shows the Stay mode state (on the English menu **Stay: Area**).

3.5 Emergency keys

You can ask the monitoring station for help directly from the keypad.

Help	What to do
Panic (police, immediate danger)	hold down the **1** key for 3 seconds
Medical help	hold down the **4** key for 3 seconds
Fire brigade	hold down the **7** key for 3 seconds

The emergency signal reaches its destination only if the system is connected to a monitoring station and you have agreed on the service. Whether the key gives an audible or a silent alarm, or is switched off, is set by the installer (section 2.2).

3.6 Alarms and troubles on the display

- **In an alarm**, the display shows the alarm and the zones involved. You can also find the alarm by zone name in the Protegus 2 event list.
- **If there is a trouble**, the bottom line of the display shows the trouble message (on the English menu **Service [MENU]: Trouble**): you open the trouble list with the **MENU** key. The meaning of the troubles and what to do are described in chapter 7 of the FLEXi SP3 user manual.

3.7 Zone bypass (BYPASS)

You can temporarily exclude a zone that has been left open or is faulty from monitoring.

1. Press the **MENU** key.
2. Press the **3** key.
3. Enter your user code.
4. Enter the two-digit number of the zone (for example `02`). For several zones, enter the two-digit numbers of the zones one after the other.
5. Press the **OK** key: the keypad exits bypass mode.

To cancel the bypass, repeat the same steps. The bypass applies to one arming only: after disarming, the zone is monitored again – the fault must be repaired.

3.8 Resetting fire and smoke detectors

Two-wire fire and smoke detectors do not reset by themselves after an alarm, only manually. To reset them, hold down the ⚡ (lightning) key for 3 seconds: the panel briefly removes power from the detectors, and they return to their normal state. The corresponding Protegus 2 output and the `FRS` SMS command do the same.

For the installer

The reset works through the PGM output to which the fire detectors are connected and which you have set in TrikdisConfig to the fire sensor reset function (**Fire Sensor Reset**) (FLEXi SP3 manual, section 6.8).

3.9 User codes

You program the user codes with the administrator code. You choose the user's two-digit number (01–40): for a new code a number that is still free, for a change the number of the user whose code you are replacing.

Adding a new code, changing an existing one:

1. Press the ⚡ key.
2. Enter the administrator code (123456 by default).
3. Enter the user's two-digit number (for example `02`).
4. Enter the four-digit user code.
5. Enter the code again.
6. Press the numbers of the partitions the user may control.
7. Press the **OK** key.
8. Exit with the **C** key.

Deleting a code:

1. Press the ⚡ key.
2. Enter the administrator code (123456 by default).
3. Enter the two-digit number of the user to be deleted (for example `02`).
4. Press the **SLEEP** key.
5. Exit with the **C** key.

The administrator code and the six-digit code

The administrator code can only be changed in the TrikdisConfig software – ask the installer. If the installer has switched on the six-digit user code (section 2.2), the codes have six digits.

3.10 Brightness and sound

Press the **MENU** key, then the **5** key (settings menu), and choose what you want to set:

Key	Menu item
2	volume
4	LCD brightness – the brightness of the display
3	keypad brightness – the brightness of the keys

You set the value with the ▲ ▼ keys and save it with the **OK** key. You set the menu language as described in section 2.3.

4. Firmware update

Occasionally the keypad may need a firmware update. For example, the keypad can store only 4 languages at a time and the language you want is not among them, or simply because of some bug fixes. You can check the keypad's current firmware version with the **MENU**, **5**, **0** keys.

4.1 Preparation

- The keypad must be connected to the alarm control panel, and the system must be switched on. The update is done at the keypad, so it can also be carried out after installation.
- Download the latest firmware file to the computer and, before starting, rename it to `sk_lcd.fw`. You can download the file from the product page (the latest FLEXi LCD firmware with English, Greek, Spanish and Hungarian languages – EN, GR, ES, HU).

- The update requires the same mini-USB cable as programming.

4.2 Update procedure

1. Connect the computer to the FLEXi LCD keypad with the USB cable.
2. Enter the menu with the **MENU** key.
3. Press the **5** key (settings menu).
4. Press the **9** key to update (on the English menu **Update**).
5. The firmware folder of the FLEXi LCD keypad appears on the computer as a new drive (**SK_LCD**); the display shows a message asking you to replace the firmware file on the SK_LCD drive.
6. Copy the previously downloaded firmware into the folder (overwriting the old file), then wait until the keypad restarts.

After the update, set the menu language (section 2.3) and check the new firmware version (**MENU**, **5**, **0** – device information).

5. Frequently asked questions

How many keypads can be connected to the FLEXi SP3?

Up to 8 keypads of the same type can be connected to the keypad bus (section 2.1). Each is powered from the panel's AUX output: take the keypads' current consumption into account (FLEXi LCD: 25–60 mA).

How do I change the language of the keypad's menu?

MENU → **5** (settings) → **1** (Language) → the number of the language (Hungarian: **4**) → **OK** (section 2.3). The keypad stores 4 languages at a time; the firmware downloadable from the shop contains English, Greek, Spanish and Hungarian (chapter 4).

Strange symbols appear instead of accented letters in the zone and partition names. What should I do?

For accented characters to be displayed correctly, the character set must be set to Central Europe when programming the FLEXi SP3 – where to find this setting is described in section 2.3.

Can the keypad be made to see and control only one partition?

Yes: on the **Modules** → **Keypads** tab of TrikdisConfig, in the **Areas** column, you specify which partitions it may control (section 2.2). This requires keypad firmware 1.41 and panel firmware SP3_xxx4_0119. The keypad then shows only the state of the assigned partitions and their zones.

What is the default administrator code, and how do I change it?

The default administrator code is 123456. It can only be changed in the TrikdisConfig software – ask the installer (section 3.9).

Can the system be armed without a code?

Yes, if the installer has switched on the **Quick ARM** setting (section 2.2): then the **ARM**, **STAY** and **SLEEP** keys arm without a code.

I entered a wrong code several times, and the keypad does not respond. Why?

After the set number of incorrect codes the keypad locks, and it does not accept codes until the lockout time has expired. The number of incorrect codes and the duration of the lockout are set by the installer (**Incorrect codes until lockout**, **Lockout timer** – section 2.2).

What is the keypad's zone input for?

The keypad has its own zone input (**ZONE**): a detector near the keypad can be connected here, with the other end of its contact to the **AUX–** terminal (section 2.1).

Does the keypad measure temperature?

Yes: there is a temperature sensor in the keypad, and you see the measured value in the top line of the display (section 1.2).

The display shows "Service [MENU]: Trouble". What does it mean?

There is a trouble in the system (for example no mains power, or a problem with the battery or the communication). You open the trouble list with the **MENU** key (section 3.6).

6. Safety instructions

Figyelem!

Az elektromosság veszélyes! Személyi sérülést vagy HALÁLT, valamint anyagi kárt okozhat!

A telepítés során elektromos berendezéssel történik munkavégzés, amit az érvényes erős- és gyengeáramú rendelkezések betartásával kell kivitelezni!

A garancia (jótállás) érvényesítésének is feltétele, hogy az eszközt szakképzett személy telepítse az elektromos berendezések telepítésére vonatkozó előírások betartásával és az elektromos berendezések biztonságos üzemeltetésére vonatkozó hatályos előírásokat követve.

- The keypad may only be installed and maintained by qualified persons.
- Before wiring, read this manual and the FLEXi SP3 manual.
- **Disconnect the power before making any connection** – of the panel and the battery as well.
- Changes, modifications or repairs not authorized by the manufacturer void the warranty.
- Follow local waste disposal regulations: do not throw the device in household waste – hand in the discarded device as electronic waste.

See also

- FLEXi SP3 alarm control panel manual – connecting the keypads (section 3.5), the **Modules** page (section 6.5) and the PGM outputs (section 6.8).
- FLEXi SP3 user manual – operating the system (chapter 4) and trouble indications (chapter 7).
- FLEXi LCD keypad firmware update procedure – knowledge base article.
- Trikdis FLEXi LCD keypad – the product page, firmware download.

Related products

Trikdis FLEXi LCD keypad

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