



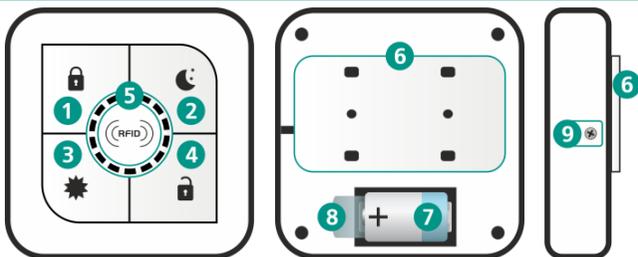
Livi RFID security control panel manual

DESCRIPTION

The Livi RFID security control panel (hereafter referred to as *the panel*) is designed to identify users by reading and transmitting the RFID-tag code to the [Livi Smart Hub](#) (hereafter referred to as the hub).

The panel allows users to enable and disable the guard of the site without [Livicom mobile app](#). The panel is equipped with sound and LED indication to confirm that user commands are executed.

PANEL APPEARANCE



1. Full guard enabling button
2. Night guard enabling button
3. Night guard disabling button
4. Full guard disabling button
5. LED indicator
6. Mounting bracket
7. Battery
8. Protective film
9. Retaining screw

BINDING THE PANEL TO THE HUB

The panel must be unpacked and allowed to reach room temperature for at least two hours before handling if it was transported or stored at low temperatures.

1. Pull the protective film out of the battery compartment:
 - The panel will turn on (the panel indicator will blink red, green and blue in turn).
 - Then the panel will be automatically calibrated (the indicator will quickly blink white).
 - The panel will be switched to the binding mode for 60 seconds (the indicator blinks blue) after the calibration.
2. In the Livicom app, open the "Devices" screen. In the upper right corner of the screen tap **+** and select "Add Device". The panel indicator will blink green 5 times

The panel switches to the binding mode only for 60 seconds. If you have not bound it to the hub within this period, remove the battery from the panel for 30 seconds, and reinstall it (observing polarity). The panel will switch to binding mode again.

CHOOSING A LOCATION FOR THE PANEL

We recommend mounting the panel on a wall near the front door inside the guarded site.

DO NOT install the panel outdoors, in places with high humidity, or at temperatures exceeding the operating temperature range (see "Specifications" table).

EVALUATING SIGNAL STRENGTH

Check the quality of the connection between the panel and the hub at the intended location of the panel. There are two ways to evaluate the signal strength:

1. In the Livicom app, on the panel settings screen.
2. With the help of the LED indication on the panel. Double-click on the button (4) and look at the panel indicator. Interpret the indication using the table below.

Good signal	The indicator blinks green 3 times
Average signal	The indicator blinks green twice
Poor signal	The indicator blinks green once
No connection	The indicator blinks red 4 times

PANEL INSTALLATION

1. Fasten the mounting bracket (6) on a wall at the selected location, using the supplied mounting kit.
2. Mount the panel on the bracket: align tabs on the bracket with holes in the panel. Pull the panel slightly down until you hear a click, confirming that the panel is secured on the bracket.
3. Tighten the retaining screw (9).

The panel will be automatically calibrated 60 seconds after it is mounted on the bracket (after the panel tamper is closed). The panel indicator will quickly blink white during calibration. Wait until the calibration is fully complete and then check the operation of the panel.

RFID-TAGS ASSIGNMENT

Individual RFID-tags allow users identifying themselves, when they enable or disable the full guard of the site. The night guard of the site is enabled and disabled without RFID-tags. The full guard can also be enabled without RFID-tags, but users must use their individual RFID-tags to disable the full guard (to confirm that they have the right to enter the site). Users will be allowed to enable the full guard without RFID-tags only if a setting "Enable full guard with RFID-tag" is turned off in the Livicom app. The site owner can turn on this setting if users would like to see in the Livicom app who enables the guard.

Attention

Livi Tag RFID-tags, which are included in the supply set, are not assigned to the panel

RFID-tags should be assigned to users in the Livicom app before the first use. One user can have only one individual RFID-tag and one RFID-tag can be assigned only to one user.

Open a user profile in the Livicom app, go to the "Access and RFID-tags" screen and tap "Add" to assign an RFID-tag. Then on the panel press the Full guard disabling button (4) (to switch the panel into the reading mode) and hold the RFID-tag near the center of the panel. Follow on-screen instructions in the app.

GETTING STARTED WITH STANDARD ISO 15693 RFID-TAGS

Attention

The panel does not support simultaneous operation with ISO 15693 and ISO 14443A RFID-tags

If you have already assigned to users Livi Tag RFID-tags, which are included in the supply set, then to get started with standard ISO 15693 RFID-tags follow these steps:

1. Delete all assigned RFID tags (see "Deleting the RFID-tag" below) and then delete the panel from the hub (see "Panel deleting" below).
2. Bind the panel to the hub again and assign to users only ISO 15693 RFID-tags.

SITE GUARD ENABLING AND DISABLING

Press the Full guard enabling button (1) on the panel and hold the individual RFID-tag near the center of the panel to **enable the full guard** of the site. The guard is enabled when you hear 1 short beep and see that the panel indicator blinks green once.

If a setting "Enable full guard with RFID-tag" is turned off on the panel settings screen in the Livicom app, then you can just press the Full guard enabling button (1) on the panel and the full guard will be enabled.

The Livicom system checks statuses of all security sensors when it is enabling the guard. If the system fails to switch some sensors into the guarding mode, then the panel indicator will blink yellow 3 times and the guard of the site won't be enabled. If you want to enable the full guard with **the exception of some sensors** (for example, if you intentionally left the window open for ventilation), then make two more attempts to enable the full guard. On the third attempt the site's full guard will be enabled, but some sensors will not perform guarding functions.

Press the Full guard disabling button (4) on the panel and hold the individual RFID-tag near the center of the panel to **disable the full guard** of the site. The guard is disabled when you hear 2 short beeps and see that the panel indicator blinks green twice.

Press the Night guard enabling button (2) on the panel to **enable the night guard** of the site. The night guard is enabled when you hear 1 short beep and see that the indicator (5) blinks blue once.

Press the Night guard disabling button (3) on the panel to **disable the night guard** of the site. The night guard is disabled when you hear 2 short beeps and see that the indicator (5) blinks blue twice.

DELAY FOR ENTRY / EXIT

Delay for entry / exit can be activated if the panel is installed inside the guarded site.

Delay for entry / exit let users:

1. Leave the site after the Full guard enabling button is pressed on the panel. Security sensors will switch to the guarding mode when the delay period expires.
2. Enter the guarded site, reach the panel and disable the full guard. An alarm alert will be sent after the delay period expires.

Duration of the delay for entry / exit can be set by the site owner in the Livicom app on the panel settings screen.

Duration of the delay for entry / exit can be set by the site owner in the Livicom app on the panel settings screen. If the system fails to switch some sensors into the guarding mode, then the panel indicator will blink yellow 3 times and the guard of the site won't be enabled. If you want to enable the full guard **with the exception of some sensors**, then make two more attempts to enable the full guard. On the third attempt the site's full guard will be enabled, but some sensors will not perform guarding functions.

An entrance area is a part of the guarded site which users should cross to reach the panel after entering the site. The delay for entry will be applied only to those sensors that are located in the entrance area; all other sensors in the site will remain in guarding mode.

Sensors can be added to the entrance area by the site owner in the Livicom app on sensor settings screens. If the front door of the site is secured with a Livi CS opening sensor, then the site owner can turn on the setting "Installed on the front door" in the Livicom app on the sensor settings screen.

POWER SAVING MODE

By default the panel operates in a power saving mode in order to extend battery life. Disable the saving mode if you want to expand the panel indication:

1. In case of alarm the panel will indicate the alarm (see "LED and sound indication").
2. During the delay for entry the panel will beep once every 2 seconds and the indicator will blink red once every 2 seconds.

The power saving mode can be disabled by the site owner in the Livicom app on the panel settings screen.

DELETING THE RFID-TAG

The site owner can delete an assigned RFID-tag in the Livicom app. Open a profile of the user, to whom the RFID-tag was assigned, to delete the tag. Go to the "Access and RFID-tags" screen and tap  in the "RFID-tag" line. In a pop-up window confirm that the RFID-tag should be deleted.

DELETING THE PANEL (UNBINDING FROM THE HUB)

There are two ways to unbind the panel from the hub:

1. In the Livicom app, on the panel settings screen.
2. Using the panel buttons:
 - Unscrew the retaining screw (9) and pull off the panel from the mounting bracket.
 - Remove the battery for 30 seconds.
 - Reinstall the battery, observing polarity.

- Press together all 4 buttons on the panel and hold them until the panel indicator starts blinking blue.

PANEL MAINTENANCE

Keep the panel free of dust and dirt. Replace the battery as soon as possible after you receive a "low battery" notification in the Livicom app.

Do not wipe the panel with substances containing alcohol, acetone, gasoline and other active solvents

SPECIFICATIONS

Operating frequency	868 MHz
Radio communication range*	1000 m
Radio channel power	25 mW
Period of sending test events to the hub	10 minutes
RFID-tags reading range	up to 10 mm
RFID-tags supported standards	ISO 15693 ISO 14443A-3 and ISO 14443A-4
Current consumption in sleep mode	3 µA
Current consumption in active mode	up to 40 mA
Power source (3 V)	lithium battery CR123A
Battery life (power saving mode is on)**	up to 10 years
Battery life (power saving mode is off)**	up to 5 years
Operating temperature range	from -20 to +55 °C
Relative humidity	no more than 80% at 25 °C
Dimensions	95 x 95 x 30 mm

* Radio communication range is the maximum distance between the hub and the sensor in line of sight and without interference.

** Battery life depends on the intensity of radio communication between the sensor and the hub. The maximum battery life can be achieved if the sensor is operated at the temperature of 25 °C, relative humidity no more than 80% and without vibration load.

SUPPLY SET

Livi RFID security control panel	1
Livi Tag RFID-tags (standard ISO 14443A-3)	2
Lithium battery CR123A (3 V)	1
Protective film for the battery	1
Mounting kit	1
Packaging	1

SOUND AND LED INDICATION

Full guard is enabled	The indicator blinks green once
	1 short beep
Full guard is disabled	The indicator blinks green twice
	2 short beeps
Night guard is enabled	The indicator blinks blue once
	1 short beep

Night guard is disabled	The indicator blinks blue twice
	2 short beeps
Delay for exit	The indicator blinks green once every 2 seconds
	1 short beep repeats every 2 seconds
Delay for entry*	The indicator blinks red once every 2 seconds
	1 short beep repeats every 2 seconds
Security alarm alert*	The indicator blinks red once every 2 seconds
	Acoustic alarm sounds continuously
Fire alarm alert*	The indicator blinks red once every 2 seconds
	1 long beep repeats once every 1 second
Water leak alarm alert*	The indicator blinks red once every 2 seconds
	2 short beeps repeat every 3 seconds
Emergency alarm alert*	The indicator blinks red once every 2 seconds
	2 short beeps followed by 1 long beep (repeat every 2 seconds)
Guard enabling error	The indicator blinks yellow 3 times
	3 short beeps
Unknown RFID-tag	The indicator blinks red twice
	1 long beep
Binding mode	The indicator blinks blue for 1 minute
Confirmation of successful binding	The indicator blinks green 5 times
A button on the panel is pressed	The indicator blinks white once
The panel is turning on	The indicator blinks red, green and blue in turn
The panel calibration	The indicator quickly blinks white

* only if the power saving mode is off

WARRANTY

The manufacturer LLC "NPP Stels" guarantees that the panel meets AGNS.421453.001 TU technical requirements, provided that the consumer complies with the conditions of transportation, storage, installation and operation. The warranty period is 5 years from the manufacturing date. The warranty does not apply to batteries.

The warranty does not cover the following cases:

1. Non-compliance with the intended operating conditions;
2. Mechanical damage to the panel;
3. Repairs to the panel by a third party (a person or a company other than the Manufacturer).