



## SATEL PRF-LCD-WRL Wireless keypad User Manual

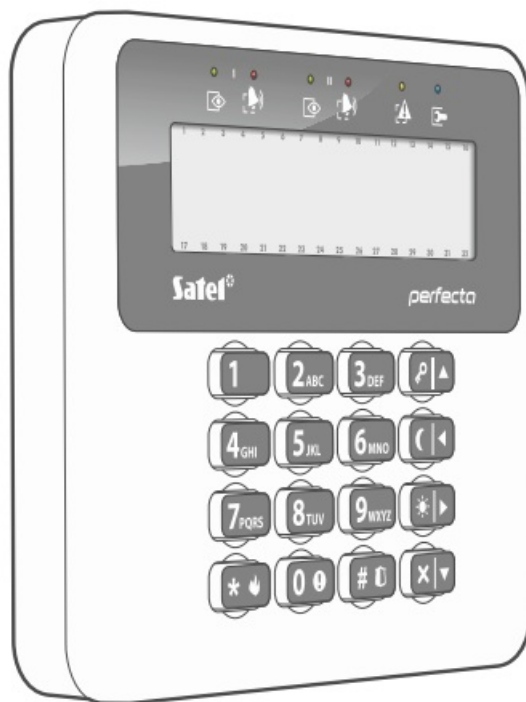
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**SATEL PRF-LCD-WRL Wireless keypad**



## IMPORTANT

- The device should be installed by qualified personnel.
- Read carefully this manual before proceeding to installation.
- Changes, modifications or repairs not authorized by the manufacturer shall void your rights under the warranty.
- The name plate of the device is located on the enclosure base.

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Hereby, SATEL sp. z o.o. declares that the radio equipment type PRF-LCD-WRL is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [www.satel.eu/ce](http://www.satel.eu/ce)

## The following symbols may be used in this manual:

- note;
- caution.

The PRF-LCD-WRL wireless keypad enables operation and programming of the PERFECTA control panels equipped with the WRL module.

The PRF-LCD-WRL keypad with firmware version 1.01 is fully supported by PERFECTA control panels with firmware version 1.04 from 2022-05-17 (or newer) / 2.00 from 2022-05-17 (or newer).

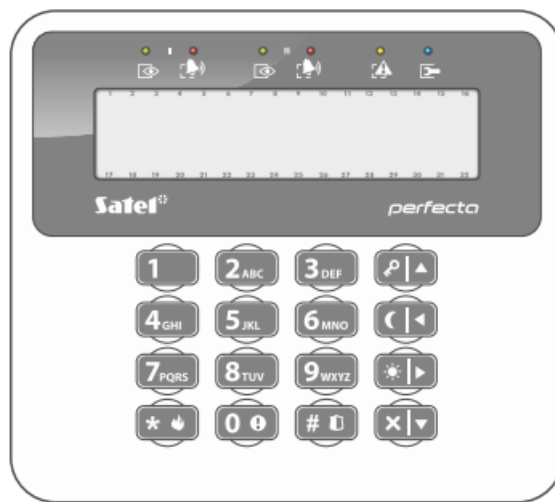


Fig. 1. PRF-LCD-WRL keypad.

## Features

- Two-way encrypted radio communication in the 433 MHz frequency band.
- Display 2 x 16 characters with backlight.
- LEDs indicating the state of partitions and system.
- 12 keys, bearing designations according to telephone standard and intended for entering data.
- 4 additional keys for menu navigation and arming/disarming.
- Backlit keys.
- Built-in sounder.
- Tamper protection against enclosure opening and removal from mounting surface.
- Power supply: two CR123A 3 V batteries.

## Description

### Operating modes

- **Wake-up** – this mode is started by pressing any key. Additionally, the keypad can be woken up automatically after entry or exit delay countdown begins, the system is armed, or an alarm occurs (see description of the “Wake-up duration” parameter p. 7). In this mode, the keypad operates in much the same way as the LCD wired keypad. The display is ON and the backlight, LED signaling and sound signaling are active.

- **Sleep – this mode is started:**

- after 20 seconds since the last key press,
- after preset time, if the keypad has been woken up automatically (see description of the “Wake-up duration” parameter p. 7).

The purpose of this mode is to save energy. The display is off. Backlight, LED indication and sound signaling are disabled (if a time different from 0 is preset for the “Wake-up duration” parameter, the CHIME from zones will be signaled).

- **Periodic transmissions**

Every 15 minutes, the keypad sends a periodic transmission. The purpose of such transmissions is to monitor presence and condition of the keypad.

- **Battery status control**

The keypad controls the status of the batteries. If the voltage is lower than 2.75 V:

- low battery information is sent during each periodic transmission,
- after the keypad wake-up, a low battery message will be displayed (the message will specify which battery is to be replaced – the battery designation can be found on the electronics board, after opening the enclosure).

The battery life depends on how the keypad is used. The more frequently the keypad is woken up, the quicker the batteries will be depleted.

## Installation

- There is a danger of battery explosion when using a different battery than recommended by the manufacturer, or handling the battery improperly.
- Be particularly careful during installation and replacement of the batteries. The manufacturer is not liable for the consequences of incorrect installation of the battery.
- The used batteries must not be discarded, but should be disposed of in accordance with the existing rules for environment protection.

The keypad is designed for indoor installation. The place of installation should be readily accessible to the system users. When selecting the mounting location, take into account the range of radio communication.

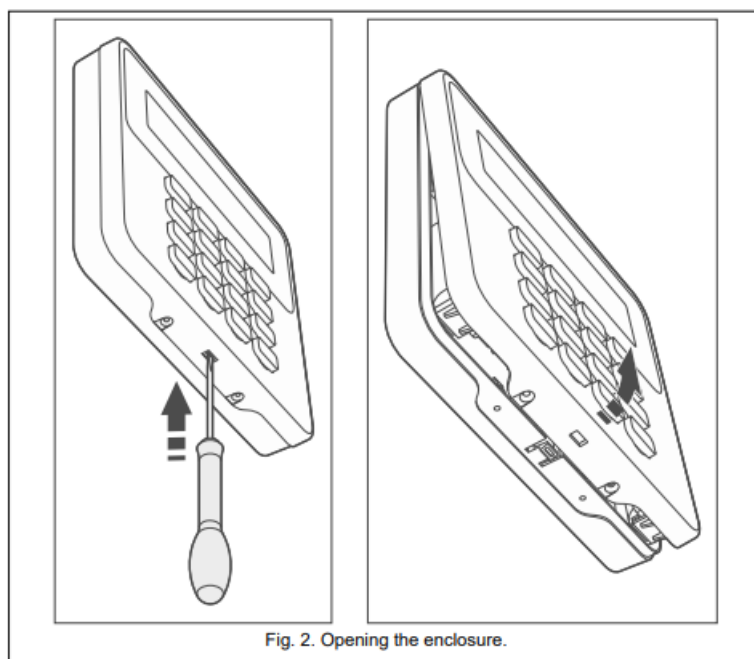
1. Open the keypad enclosure (Fig. 2).
2. Install the batteries and enroll the keypad in the control panel (see: “Adding the keypad to the system”).
3. Put the cover on the catches and snap the enclosure shut.
4. Place the keypad in the location intended for its installation.

If you want to hold the keypad in your hand when checking the radio signal level, grab the device from its left side (on its right side, there is the antenna, which must not be covered).

5. Press any key on the keypad. Time should be displayed on the keypad. If the time is not displayed, the keypad cannot connect to the control panel and, therefore, you must choose another place for installation. Sometimes, communication will be established after the device is moved ten or twenty centimeters from its current location. On the keypad or in the PERFECTA SOFT program, you can check the level of radio signal received by the control panel from the keypad. The signal level should not be lower than 40%.

6. Open the keypad enclosure (Fig. 2).
7. Place the enclosure base against the wall and mark location of the mounting holes.
8. Drill the holes in the wall for wall plugs (screw anchors).
9. Using wall plugs (screw anchors) and screws, secure the enclosure base to the wall. Select wall plugs specifically intended for the mounting surface (different for concrete or brick wall, different for plaster wall, etc.). When installed, the device must withstand a pull-off force of at least 50 N.



10. Put the cover on the catches and snap the enclosure shut.
11. Lock the cover using screws.











### Adding the keypad to the system




You can add the wireless keypad to the system by using either a computer with PERFECTA SOFT program installed, or an LCD keypad. The control panel allows for enrolling of up to 4 PRF-LCD-WRL keypads. If no wired keypad is connected to the control panel, you can only add the first wireless keypad using the PERFECTA SOFT program.

### PERFECTA SOFT program

1. Click on the "Hardware" tab.
2. Click on one of the unused keypads. Address of this keypad will be assigned to the wireless keypad after the adding procedure is finished.
3. Click on .
4. The wireless device adding panel will be displayed.
5. In the "Serial no." field, enter the serial number of the keypad. You will find it on the keypad electronics board.
6. Press any key on the keypad being added.
7. When the "Device's data read" message appears, click "OK".
8. Click  to save changes to the control panel.



### Keypad

1. Start the service mode.
2. Press successively      to run the 1271.ADD function.
3. Enter the serial number of the keypad. You will find it on the keypad electronics board.
4. Press .
5. When the "Open tamper device" command is displayed, press any key on the keypad being added.
6. The type and serial number of the keypad being added will be displayed (if nothing happens, you may have entered a wrong serial number – if this is the case, press  to exit the function).
7. Press .










- When the "SELECT..." command is displayed, use the  and  keys to select the address to be assigned to the keypad.
- Press  The keypad will be added.

### Removing the keypad from the system

### PERFECTA SOFT program

- Click on the "Hardware" tab.
- Click on the wireless keypad that is to be removed.
- Click on .
- In the window that will be displayed, click on "Delete" to confirm that you want to remove the keypad.
- Click  to save changes to the control panel.

### Keypad

- Start the service mode.
- Press successively      to run the 1273.REMOVE function.
- Use the  and  keys to select the keypad you want to remove.
- Press .
- The type and serial number of the keypad to be removed will be displayed.
- Press  The keypad will be removed.

### Configuring

You can configure the wireless keypad settings by using a computer with PERFECTA SOFT program installed, or an LCD keypad. Names of parameters and options from the PERFECTA SOFT program are used in this manual. At the description of each parameter or option, you will find one of the following data in square brackets:

- name of the function which is used for configuring a parameter or option on the keypad,
- name of a parameter or option from the keypad.

### Keypad parameters and options

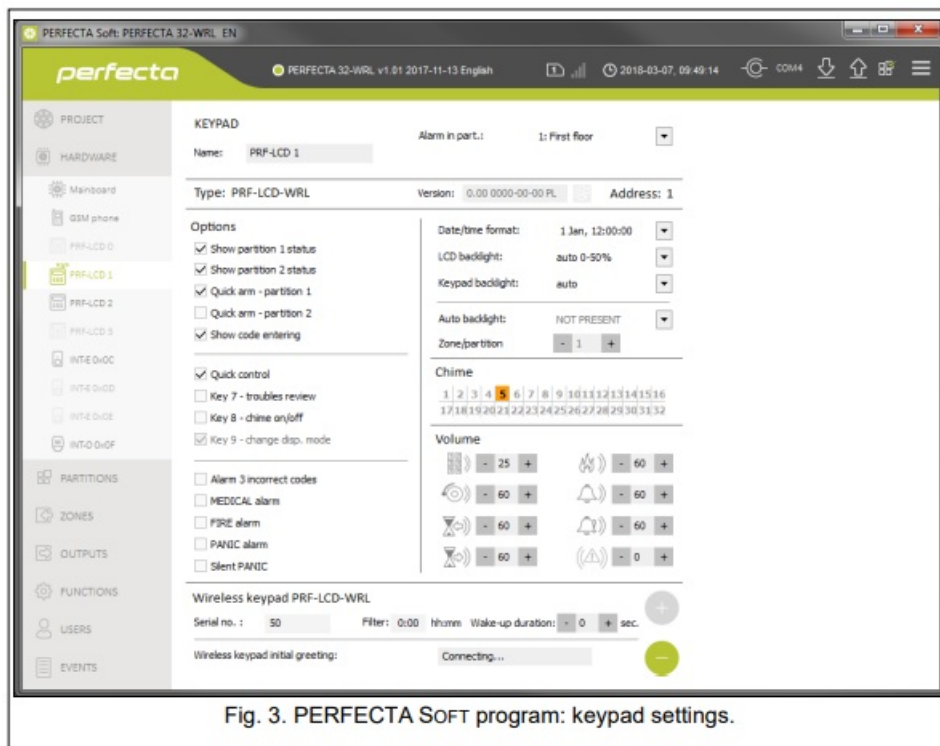






Fig. 3. PERFECTA SOFT program: keypad settings.

- Name [28.Names] – individual name of the keypad (up to 16 characters).
- Alarm in part. [22.Partitions] – the partition in which alarm will be triggered in the event of keypad tamper (opening of enclosure or loss of communication).
- **Options**  
To configure on the keypad the options described below, use the 212.OPTIONS and 211.ALARMS functions.
- Show partition 1 status [Show part.1] – if this option is enabled, the keypad LEDs and display indicate the status of partition 1. The keypad will indicate the status of partition 2 only after entering code by the user who has access to partition 2.
- Show partition 2 status [Show part.2] – if this option is enabled, the keypad LEDs and display indicate the status of partition 2. The keypad will indicate the status of partition 1 only after entering code by the user who has access to partition 1.
- Quick arm – partition 1 [Quickarm part.1] – if this option is enabled, quick arming (without user authorization) of the partition 1 is possible.
- Quick arm – partition 2 [Quickarm part.2] – if this option is enabled, quick arming (without user authorization) of the partition 2 is possible.
- Show code entering [Show code enter.] – if this option is enabled, entering the code is presented on the keypad display by asterisks.
- Quick control [Quick control] – if this option is enabled, the users can control the outputs by using the number keys. The “15. Controlled” outputs must be assigned to the keys (see: PROGRAMMING manual for PERFECTA control panels).
- Key 7 – troubles review [Troubles review] – if this option is enabled, the users can press and hold down for 3 seconds to view the troubles.
- Key 8 – chime on/off [Chime on/off] – if this option is enabled, the chime signal can be enabled/disabled by means of the  key (the key is to be pressed and hold down for about 3 seconds).
- Alarm 3 incorrect codes [3 wrng codes al.] – if this option is enabled, entering incorrect code three times will trigger the alarm.

- MEDICAL alarm [Medical alarm] – if this option is enabled, pressing the  key for approx. 3 seconds will trigger the medical (auxiliary) alarm.
- FIRE alarm [Fire alarm] – if this option is enabled, pressing the  key for approx. 3 seconds will trigger the fire alarm.
- PANIC alarm [Panic alarm] – if this option is enabled, pressing the  key for approx. 3 seconds will trigger the panic alarm.
- Silent PANIC [Silent panic] – if this option is enabled, the panic alarm triggered from the keypad will be a silent one, i.e. the keypad will not indicate it, there will be no audible signal, but the alarm will be reported to the monitoring station. The silent panic alarm is useful when the control panel is sending events to the monitoring station, but unauthorized persons should not be aware of the alarm being triggered. The option is available, if the “PANIC alarm” option is enabled.

### Display and keys







- Date/time format [210.ClockFormat] – mode of presentation of time and date on the display.
- LCD backlight [26.LCDbacklight] – the way how the display backlight will work, when the keypad is in the wake-up mode:
  - not present – disabled.
  - permanent 50% – enabled: brightness 50%.
  - permanent 100% – enabled: brightness 100%.
  - auto 0-50% – enabled: brightness 50%.
  - auto 0-100% – enabled: brightness 100%.
  - auto 50%-100% – enabled: brightness 100%.
- Keypad backlight [27.KEYbacklight] – the way how the keys backlight will work, when the keypad is in the wake-up mode:
  - not present – disabled.
  - auto – enabled.
  - permanent – enabled.

### • Chime


The keypad can audibly signal violation of selected zones.

The wireless keypad signals the CHIME from zones not more frequently than once every 30 seconds. When the keypad is in the sleep mode, the CHIME from zones is only signaled if “Wake-up duration” is different from 0.

### • Volume

-  [251.Keys] – volume level of the beeps generated during keypad operation (key pressing, confirmation of performed operation, etc.).
-  [252.Chime] – volume level of the beeps generated after zone violation (CHIME)
-  [253.Entry delay] – volume level of the entry delay beeps
-  [254.Exit delay] – volume level of the exit delay beep
-  [255.Fire alarm] – volume level of the fire alarm beep
-  [256.Burg.alarm] – volume level when signaling burglary, panic and medical (auxiliary) alarms.



-  [257.Warn.alarm] – volume level when signaling warning alarms.

-  [258.New trouble] – volume level when signaling troubles

#### • **Wireless keypad**

Filter [1272.Filter] – the time counted from receiving of the transmission from the keypad.

After it has elapsed and no other transmission is received, trouble will be reported.

- Wake-up duration [213.Wake up] – maximum length of time for which the keypad can be woken up automatically. If you enter a value different from 0:
  - the keypad will be woken up automatically when entry or exit delay countdown has begun, the system has been armed, or alarm has been triggered,
  - the CHIME from zones will also be signaled when the keypad is in the sleep mode.
  - If you enter 0, the keypad will not be woken up automatically.
  - If the “Wake-up duration” is different from 0, the keypad will be awaiting for transmissions with information on events. As a result, the energy consumption will be growing and the battery life will be considerably reduced.
  - The “Wake-up duration” is the maximum time, i.e. if the event signaling takes less time, the sleep mode will be resumed in the keypad earlier.
  - It may take a few seconds for the keypad to wake up after the event occurred.
- Wireless keypad initial greeting [218.Connect msg] – message displayed on the PRF-LCD-WRL keypad after wake-up. The message is the same for all keypads.

## **Operation**

Press any key to wake up the keypad.


- In addition to waking up the keypad, pressing a key will also have other consequences, as appropriate for the given key. The keypad will treat each key pressing exactly in the same way.
- In the wake-up mode, the LCD wireless keypad works much in the same way as the LCD wired keypad. For the way of using the keypad, please refer to the control panel manuals. The manuals are available in electronic form on the [www.satel.eu](http://www.satel.eu) website.

## **Specifications**

- Operating frequency band.....433.05 ÷ 434.79 MHz
- Radio communication range (in open area) ..... up to 200 m
- Batteries..... 2 x CR123A 3 V
- Standby current consumption, BT1 battery..... 0.005 mA
- Maximum current consumption, BT1 battery.....50 mA
- Standby current consumption, BT2 battery..... 0.001 mA
- Maximum current consumption, BT2 battery.....45 mA
- Environmental class according to EN50130-5 .....II
- Operating temperature range..... -10°C...+55°C
- Maximum humidity .....93±3%
- Enclosure dimensions..... 139 x 124 x 22 mm

- Weight.....280 g

## Documents / Resources

	<p><a href="#">SATEL PRF-LCD-WRL Wireless keypad</a> [pdf] User Manual PRF-LCD-WRL Wireless keypad, PRF-LCD-WRL, Wireless keypad</p>
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## References

-  [Intelligent Security Solutions | SATEL](#)
-  [satel.eu/ce](https://satel.eu/ce)
-  [support.satel.pl](https://support.satel.pl)

Manuals+.