Application of Paradox wireless sensors with the "FLEXi" SP3 control panel

September, 2022

Attention!

Read this user manual carefully.

A representative from the company installing the alarm system will explain which functions of the *FLEXi SP3* security module must be activated to ensure proper protection of the premises.

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Trademarks and patents	Other trade names used in this document may be trademarks or registered trademarks belonging to their respective manufacturers or retailers.
Manufacturer	UAB „Trikdis", Draugystes g. 17, LT-51229 Kaunas, Lithuania
Version	This document is applicable to *FLEXi SP3* security modules with firmware version v1.00 and up.
Certification	CE marking
European Union directives	2004/108/EC (EMC directive) 1999/5/EC (conformity directive)
Contact information for inquiries	Contact information can be found on the website www.trikdis.com

Contents

1 Control panel firmware replacement

The control panel firmware must be changed with firmware, which will ensure the operation of Paradox wireless sensors. The firmware file can be downloaded as a registered user from www.trikdis.com.

Compatibility table for control panel modification and firmware version

Control panel modification	Firmware version compatible with the control panel
SP3_4G/E FW:1.12 IMEI 8620960430526XXX S/N SP3_14E0#000037	SP3_1xx1_0112.fw
SP3_4G/S FW:1.12 IMEI 868450040024XXX S/N SP3_24S0#000532	SP3_2xx1_0112.fw
SP3_ETH FW:1.12 MAC CC50E30D9XXX S/N SP3_3E00#000531	SP3_3xx1_0112.fw
SP3_4G/E FW:1.12 IMEI 864450040171XXX S/N SP3_44E0#000530	SP3_4xx1_0112.fw
SP3_2G FW:1.12 IMEI 868277042411XXX S/N SP3_5200#005608	SP3_5xx1_0112.fw

Follow the steps below to replace the firmware:

1. Launch *TrikdisConfig*.
2. Connect the *„FLEXi" SP3* to a computer using a USB Mini-B cable.
3. Open the *TrikdisConfig* window **„Firmware".**
4. Click the **„Open firmware"** button and choose the required firmware file.
5. Click the **Update [F12]** button.
6. Wait for the updates to finish.
7. Click the **„Disconnect"** button and disconnect the USB cable.

Connect the wires of the main power supply to the control panel's AC/DC terminals. Connect the **RTX3** module to the control panel.
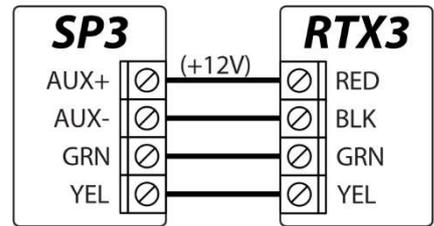
RTX3 module connection diagram

Insert an activated SIM card into the SIM card holder. Turn on the main power supply. Wait a few minutes. Using **TrikdisConfig**, remotely connect to the **„FLEXi" SP3** control panel. The **TrikdisConfig** status bar displays information about the version of the installed firmware (1). In the **„Modules" / „Keypads"** window, the table contains the **RTX3** module (2) that is connected to the control panel.
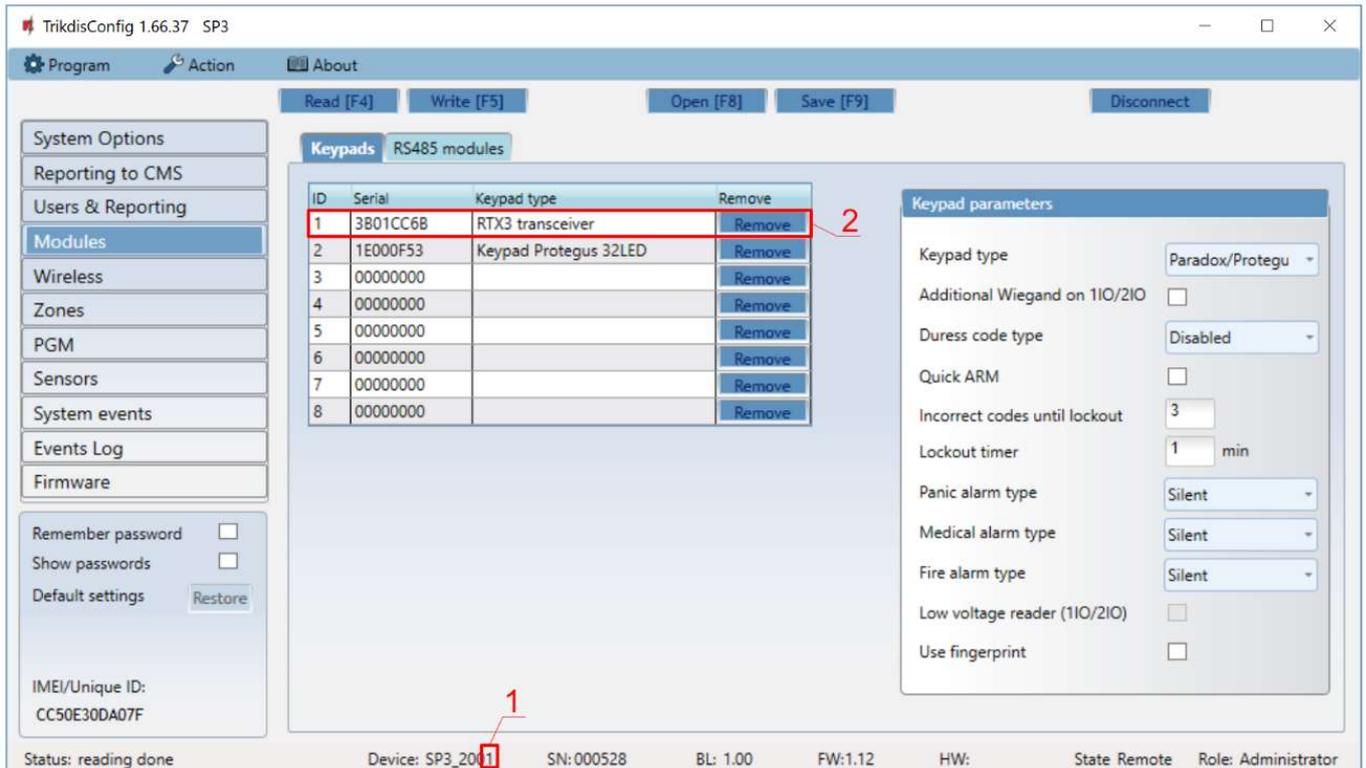
After connecting the **RTX3** module, the **„FLEXi" SP3** control panel can work in wireless sensors from Paradox (magnetic contacts, motion detectors, glass break detector (G550), smoke detector (SD360), remote control (REM2, REM25), sirens (SR230, SR250), keypads (K37), expansion module (2 WPGM), repeater (RPT1)).

2   Linking a wireless sensors

1. Make sure the **„FLEXi" SP3** has enrolled the **RTX3** wireless sensor receiver.
2. Switch on the power supply on the control panel. Insert the batteries into the wireless sensor and wait until the LED indicators stop blinking.
3. Using **TrikdisConfig**, remotely connect to the **„FLEXi" SP3** control panel.
4. In **TrikdisConfig**, in the **„Wireless"** window, click the **„Learn sensors"** button.

5. Select the type of device: **„Sensors"**.
6. Press the **„Start"** button.
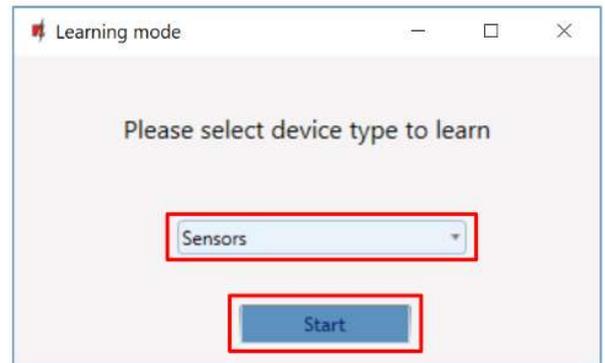
7. Press the sensor **„Tamper"** button.

8. Wait a few seconds. The control panel will detect the sensor.
9. The **„UID"** number must match the serial number of the sensor shown on the sticker on the sensor board.
10. The sensor must be assigned a **„Zone Number"** and a **„Zone definition"**.
11. Click **„Save"**.
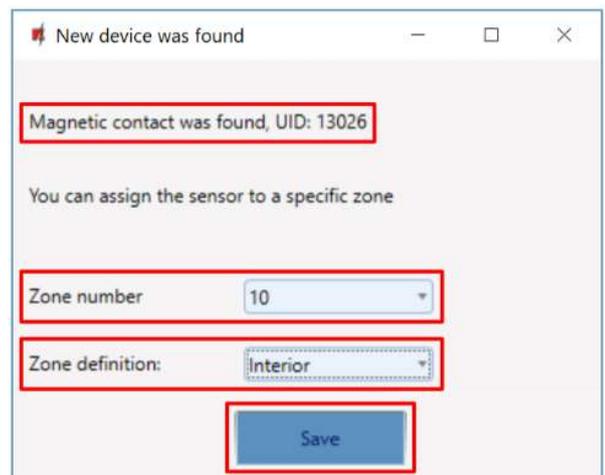
12. Wireless sensor added to the list of wireless devices.

13. The **„UID"** number must match the serial number of the sensor, which can be found on the sticker on the sensor board.

14. Click **„Stop learning"** to complete the registration of wireless sensors.

Learning mode

Learning mode started. Shortly press the tamper on the device.

New device was found: ID:1 Magnetic contact, UID: 13026

Stop learning
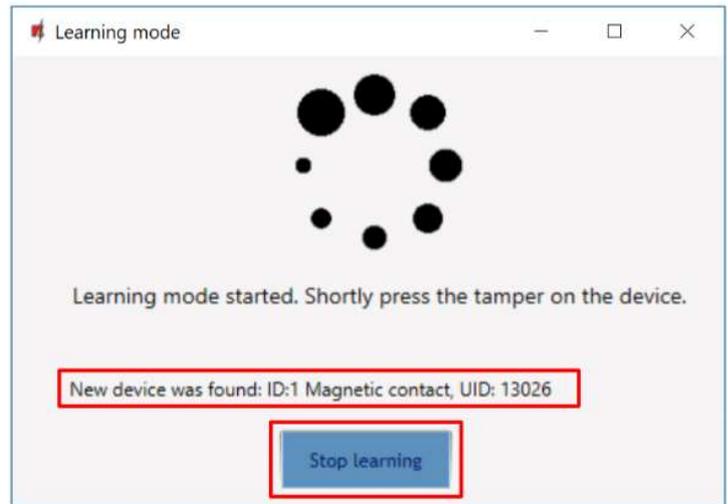
15. Click **„Yes"** for the sensor to be written to the *„FLEXi" SP3* control panel.

Save configuration

Do you want to save new parameters to the module?

Yes   No
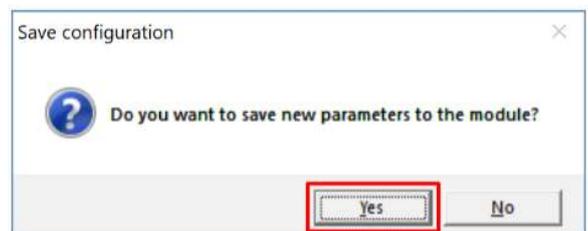
16. A new wireless sensor will be added to the list of **„Wireless"** devices.

TrikdisConfig 1.66.37 SP3

Program   Action   About

Read [F4]   Write [F5]   Open [F8]   Save [F9]   Disconnect

System Options

Reporting to CMS   Learn sensors

Users & Reporting

Modules

Wireless

ID	Device type	Serial No.	Area	User	Key 3	Key 4
1	Magnetic contact	13026		N/A	N/A	N/A
2	Disabled			N/A	N/A	N/A
3	Disabled			N/A	N/A	N/A
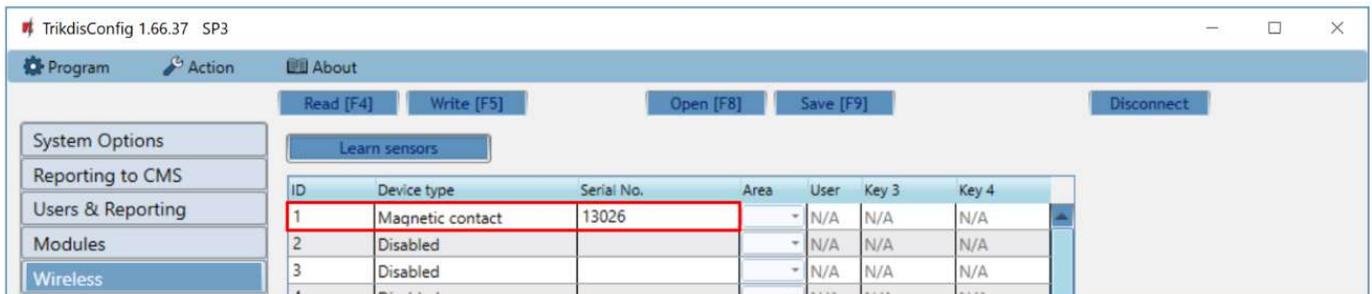
17. You must assign the sensors to **„Zones"** and **„Area"** of the security control panel (**„Zones"** window).

TrikdisConfig 1.66.37 SP3

Program   Action   About

Read [F4]   Write [F5]   Open [F8]   Save [F9]   Disconnect

System Options   Zones settings

Reporting to CMS

Users & Reporting

Modules

Wireless

Zones

PGM

Sensors

System events

Events Log

Firmware

Zone	Name	Input	Area	Definition	Type	Chime	Bypass	Force	CMS	Prot.	Delay	CID Code
1	Zone 1	SP3 1 I/O	1	Delay	NO	☐	☑	☐	☑	☑	400	134
2	Zone 2	SP3 2 I/O	1	Interior	NO	☐	☑	☐	☑	☑	400	132
3	Zone 3	SP3 3 I/O	1	Instant	NO	☐	☑	☐	☑	☑	400	130
4	Zone 4	SP3 4 I/O	1	Instant	NO	☐	☑	☐	☑	☑	400	130
5	Zone 5	SP3 5 I/O	1	Instant	NO	☐	☑	☐	☑	☑	400	130
6	Zone 6	SP3 6 I/O	1	Instant	NO	☐	☑	☐	☑	☑	400	130
7	Zone 7	SP3 7 I/O	1	Instant	NO	☐	☑	☐	☑	☑	400	130
8	Zone 8	SP3 8 I/O	1	24_hours	NO	☐	☑	☐	☑	☑	400	133
9	Zone 9	SP3 9 I/O	1	Fire	NO	☐	☑	☐	☑	☑	2000	110
10	Zone 10	Wireless Magne	1	Interior	NO	☐	☑	☐	☑	☑	400	132
11	Zone 11	Disable	1	24_hours	NO	☐	☑	☐	☑	☑	400	133

18. Click **Write [F5]** after making the changes.

19. The wireless sensor is now successfully linked to the system.

> **Note:** To delete wireless sensors from the *„FLEXi" SP3*'s memory:
> 1. Connect a USB Mini-B cable to the *„FLEXi" SP3.*
> 2. Launch *TrikdisConfig*, click the **Read [F4]** button.
> 3. In the *TrikdisConfig* window **„Wireless"**, in the column **„Device type"**, select **„Disabled"** instead of the **„Wireless sensor"** that you wish to delete and click **Write [F5]**. The wireless sensor is now removed from the *„FLEXi" SP3*'s memory.

3 Linking a wireless remote controller (keyfob)

1. Make sure the *„FLEXi" SP3* has enrolled the *RTX3* wireless sensor receiver.
2. Switch on the power supply on the control panel.
3. Using *TrikdisConfig*, remotely connect to the *„FLEXi" SP3* control panel.
4. In *TrikdisConfig*, in the **„Wireless"** window, click the **„Learn sensors"** button.

5. Select the type of device: **„Pendants"**.
6. Press the **„Start"** button.
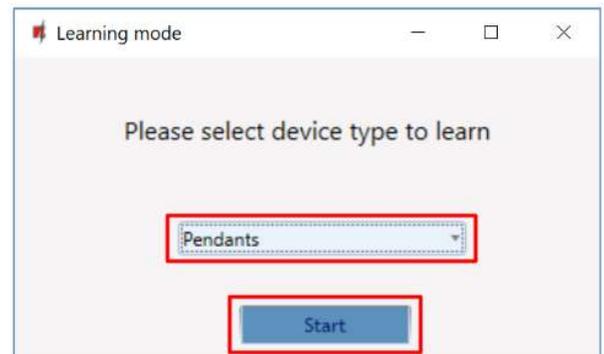
7. Press and hold any button on the remote controller to turn on the LED on the remote control. Release the button.
8. Wait a few seconds. The control panel will detect the keyfob.
9. The **„UID"** number must match the serial number of the remote control, which is indicated on the sticker on the back of the remote controller.
10. In the **„Partition"** field, specify the partition of the security system that the console will control (Arm / Disarm).
11. In the **„User"** field, enter the user number to which the keyfob will be assigned.
12. Click **„Save"**.

13. Wireless pendant is included in the list of sensors.
14. The **„UID"** number must match the serial number of the keyfob, which can be found on the back of the remote controller.
15. Click **„Stop learning"** to complete the registration of wireless pendant.
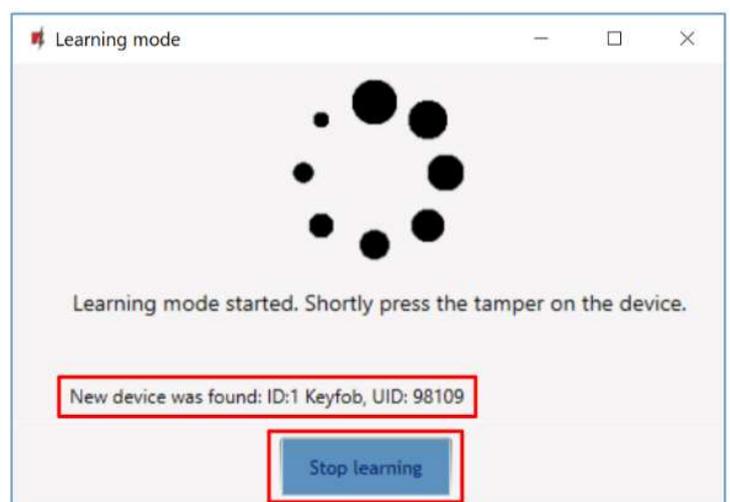
16. Click **„Yes"** for the pendant to be written to the **„FLEXi" SP3** control panel.
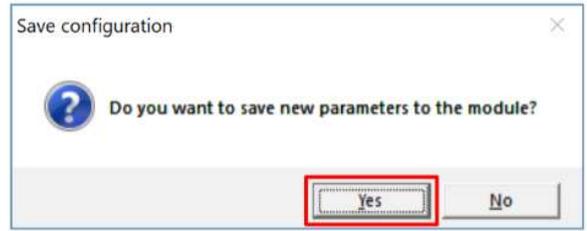
17. The wireless keyfob has been added to the list of **„Wireless"** devices.

18. You can assign additional functions to the controller's buttons 3 and 4 (Arm, Disarm; Silent alarm; Panic alarm; PGM control).

ID	Device type	Serial No.	Area	User	Key 3	Key 4
1	Keyfob	98109	1	1	Panic	Silent panic
2	Disabled			N/A	N/A	N/A
3	Disabled			N/A	N/A	N/A
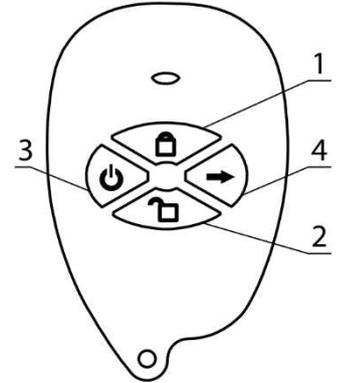
19. Click **Write [F5]** after making the changes.
20. The wireless controller is now successfully linked to the system.

> **Note:** To delete wireless keyfob from the **„FLEXi" SP3**'s memory:
> 1. Connect a USB Mini-B cable to the **„FLEXi" SP3.**
> 2. Launch **TrikdisConfig**, click the **Read [F4]** button.
> 3. In the **TrikdisConfig** window **„Wireless"**, in the column **„Device type"**, select **„Disabled"** instead of the **„Keyfob"** that you wish to delete and click **Write [F5]**. The keyfob is now removed from the **„FLEXi" SP3**'s memory.

4   Linking a wireless siren

1. Make sure the **„FLEXi" SP3** has enrolled the **RTX3** wireless sensor receiver.
2. Switch on the power supply on the control panel. Insert the batteries into the wireless siren.
3. Using **TrikdisConfig**, remotely connect to the **„FLEXi" SP3** control panel.
4. In **TrikdisConfig**, in the **„Wireless"** window, click the **„Learn sensors"** button.

5. Select the type of device: **„Sirens"**.
6. Press the **„Start"** button.
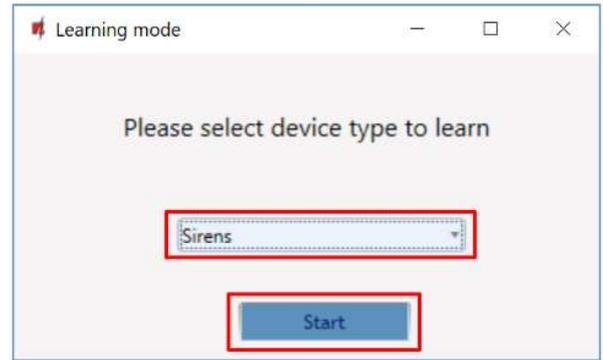
7. Press and hold the **„LEARN"** button on the siren board for 3 seconds. The LED on the siren will start flashing. Release the button.
8. Wait a few seconds. The security panel will detect the siren.
9. The **„UID"** number must match the siren serial number, which is indicated on the sticker on the siren board.
10. In the **„Area"** field, specify the section of the security system, activation of which will trigger the siren.
11. Click **„Save"**.
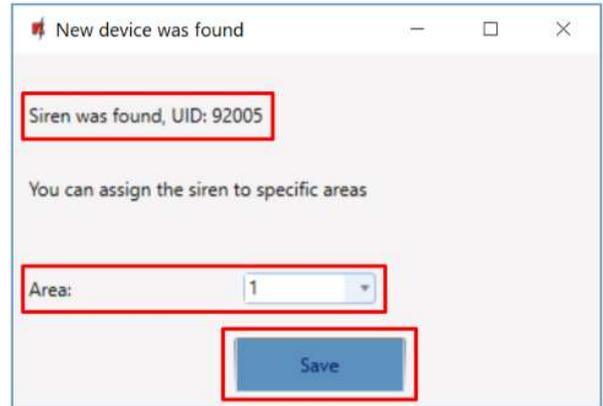
12. Wireless siren is included in the list of wireless devices.
13. The **„UID"** number must match the serial number of the siren, which can be found on the sticker on the siren board.
14. Click **„Stop learning"** to complete the registration of wireless siren.
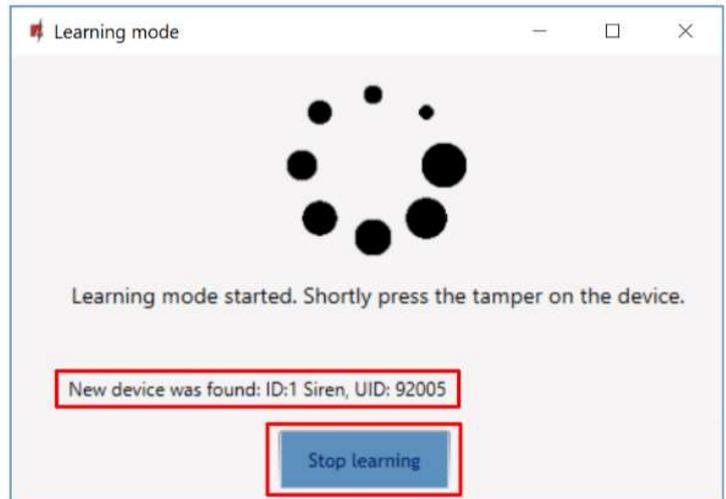
15. Click **Yes** for the siren to be written to the **„FLEXi" SP3** control panel.
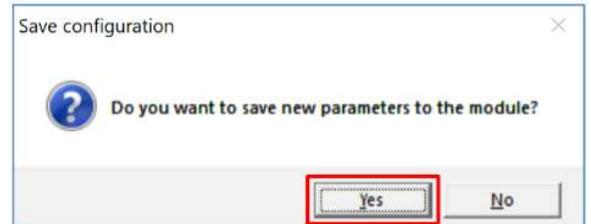
16. The wireless siren added to the list of **„Wireless"** devices.

ID	Device type	Serial No.	Area	User	Key 3	Key 4
1	Siren	92005	1	N/A	N/A	N/A
2	Disabled			N/A	N/A	N/A
3	Disabled			N/A	N/A	N/A
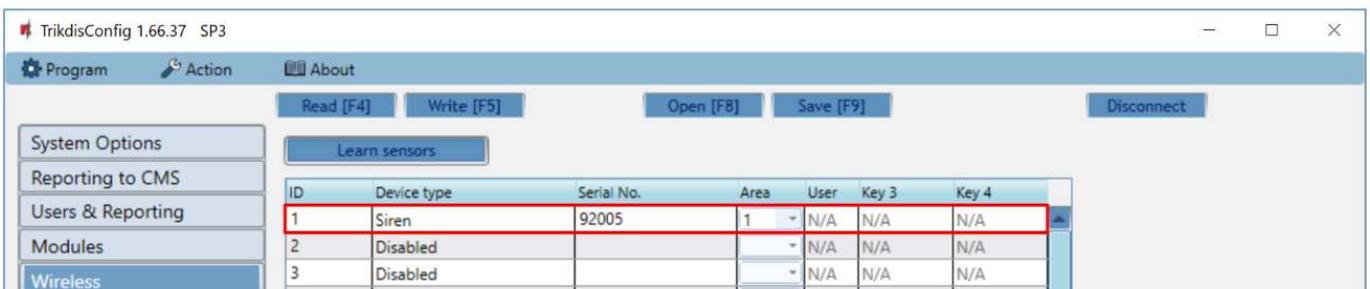
17. Click **Write [F5]** after making the changes.
18. The wireless siren is now successfully linked to the system.

Note: To delete wireless siren from the *„FLEXi" SP3*'s memory:
1. Connect a USB Mini-B cable to the *„FLEXi" SP3.*
2. Launch *TrikdisConfig*, click the **Read [F4]** button.
3. In the *TrikdisConfig* window **„Wireless"**, in the column **„Device type"**, select **„Disabled"** instead of the **„Siren"** that you wish to delete and click **Write [F5]**. The wireless siren is now removed from the *„FLEXi" SP3*'s memory.

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5 Linking a wireless keypad

1. Make sure the *„FLEXi" SP3* has enrolled the *RTX3* wireless sensor receiver.
2. Switch on the power supply on the control panel. Insert the batteries into the wireless keypad.
3. Using *TrikdisConfig*, remotely connect to the *„FLEXi" SP3* control panel.
4. In *TrikdisConfig*, in the **„Wireless"** window, click the **„Learn sensors"** button.

5. Select the type of device: **„Keypads"**.
6. Press the **„Start"** button.
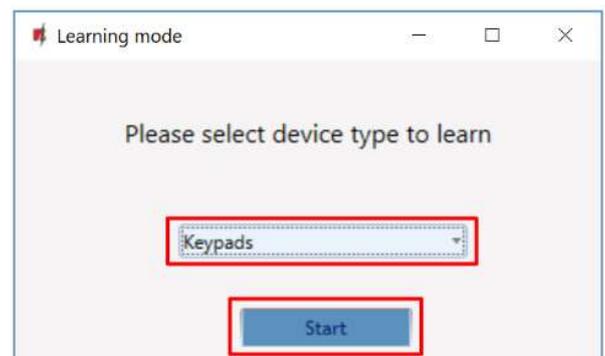
7. Simultaneously press and hold the **[⏻]** and **[BYP]** buttons on the keypad for 3 seconds. The keypad will beep several times. Release the buttons.
8. Wait a few seconds. The security panel will detect the keypad.
9. The UID number must match the serial number of the keypad, which can be found on the sticker on the back of the keypad's casing.
10. In the field, specify the **Area** of the security system that will control the keypad.
11. Click **Save**.
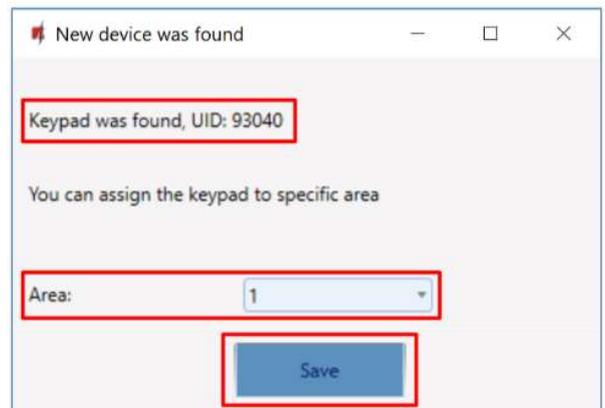
12. Wireless keypad is included in the list of wireless devices.
13. The **„UID"** number must match the serial number of the keypad, which can be found on the back of the keypad's casing.
14. Click **„Stop learning"** to complete the registration of wireless keypad.
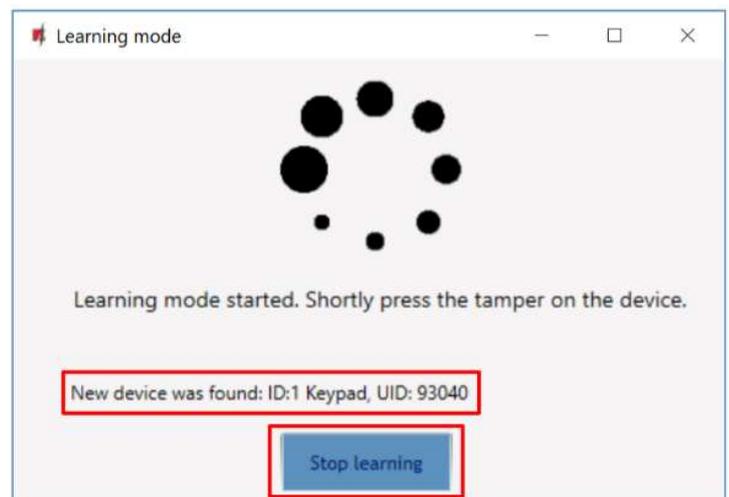
15. Click **„Yes"** for the keypad to be written to the **„*FLEXi" SP3*** control panel.
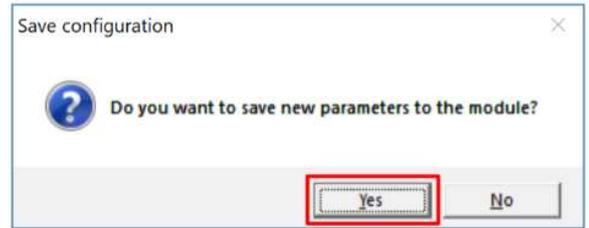
16. The wireless keypad has been added to the list of **„Wireless"** devices.
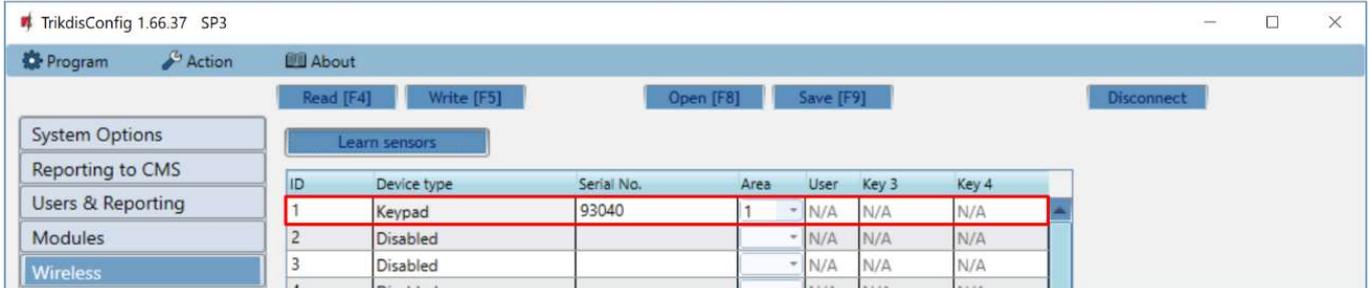
17. Click **Write [F5]** after making the changes.

18. The wireless keypad is now successfully linked to the system.

Note: To delete wireless keypad from the **„*FLEXi" SP3***'s memory:

1. Connect a USB Mini-B cable to the **„*FLEXi" SP3.***

2. Launch ***TrikdisConfig***, click the **Read [F4]** button.

3. In the ***TrikdisConfig*** window **„Wireless"**, in the column **„Device type"**, select **„Disabled"** instead of the **„Keypad"** that you wish to delete and click **Write [F5]**. The keypad is now removed from the **„*FLEXi" SP3***'s memory.

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6   Linking a 2-way wireless PGM 2WPGM

1. Make sure the **„*FLEXi" SP3*** has enrolled the ***RTX3*** wireless sensor receiver.

2. Switch on the power supply on the control panel. Switch on the power on the module ***2WPGM***.

3. Using ***TrikdisConfig***, remotely connect to the **„*FLEXi" SP3*** control panel.

4. In ***TrikdisConfig***, in the **„Wireless"** window, click the **„Learn sensors"** button.

5. Select the type of device: **„PGM device"**.

6. Press the **„Start"** button.
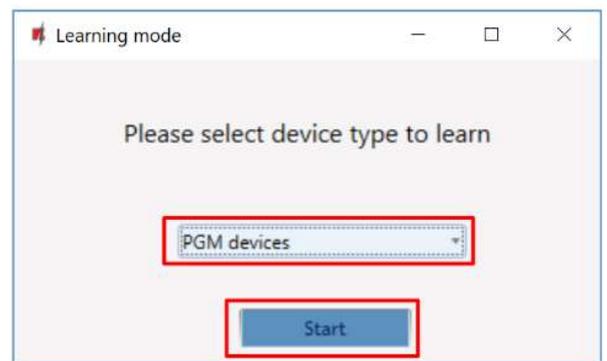
7. Remove jumper JP2 on the **2WPGM** module and put jumper back in it after a few seconds.

8. Wait a few seconds. The security panel will detect the module.

9. The **„UID"** number must match the serial number of the module, which is indicated on the sticker on the module board.

10. In the **„Select output"** field, specify the PGM output number that you want to assign to the module.

11. Click **„Save"**.
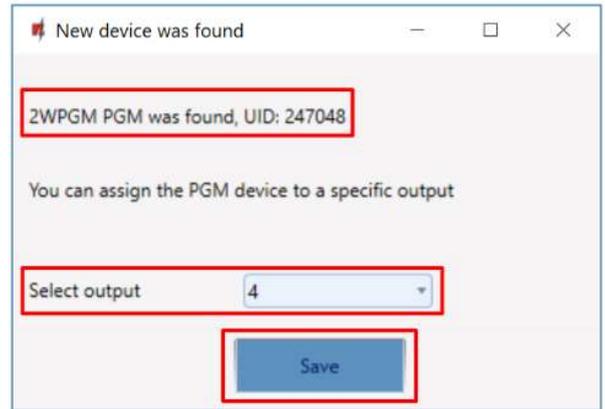
12. Wireless module **2WPGM** is included in the list of wireless devices.

13. The **„UID"** number must match the serial number of the **2WPGM**, which can be found on the sticker on the module board.

14. Click **„Stop learning"** to complete the registration of wireless module **2WPGM**.
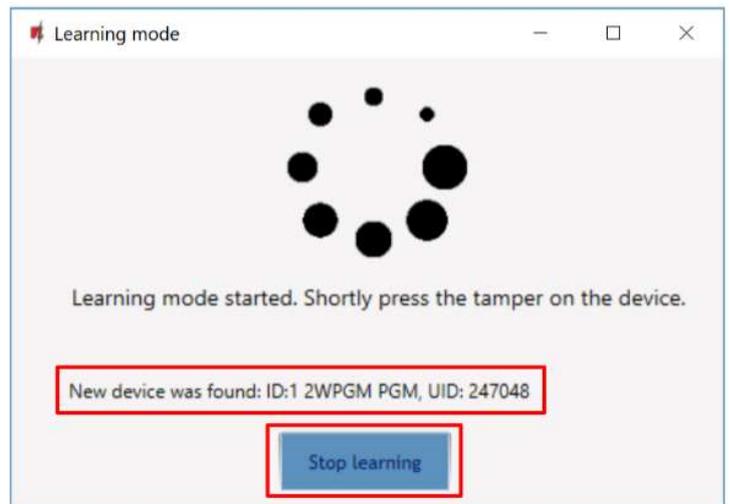
15. Click **„Yes"** for the wireless module **2WPGM** to be written to the **„FLEXi" SP3** control panel.

16. The **2WPGM** wireless module has been added to the list of **„Wireless"** devices.

17. PGM output can be renamed.
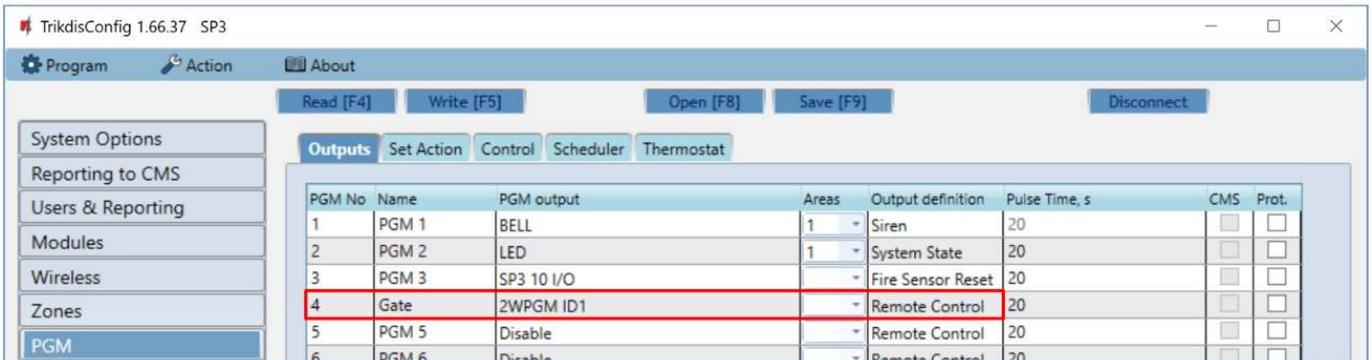
18. Click **Write [F5]** after making the changes.

19. The wireless **2WPGM** is now successfully linked to the system.

> **Note:** To delete wireless module **2WPGM** from the **„FLEXi" SP3**'s memory:
> 1. Connect a USB Mini-B cable to the **„FLEXi" SP3.**
> 2. Launch **TrikdisConfig**, click the **Read [F4]** button.
> 3. In the **TrikdisConfig** window **„Wireless"**, in the column **„Device type"**, select **„Disabled"** instead of the **2WPGM** that you wish to delete and click **Write [F5]**. The **2WPGM** is now removed from the **„FLEXi" SP3**'s memory.

7 Linking a wireless repeater RPT1

1. Make sure the **„FLEXi" SP3** has enrolled the **RTX3** wireless sensor receiver.
2. Switch on the power supply on the control panel. Switch on the power on the module **RPT1**.
3. Using **TrikdisConfig**, remotely connect to the **„FLEXi" SP3** control panel.
4. In **TrikdisConfig**, in the **„Wireless"** window, click the **„Learn sensors"** button.
5. Select the type of device: **„Repeater"**.
6. Press the **„Start"** button.
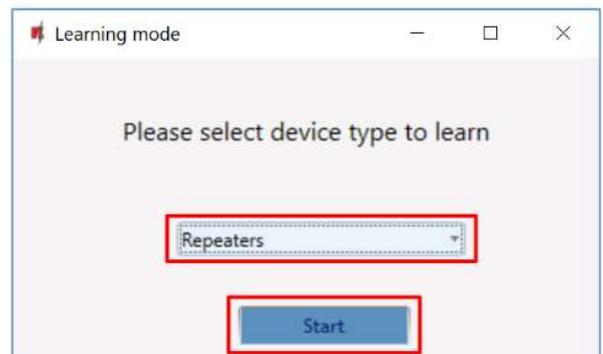
7. Press the **„LEARN"** button on the **RPT1** repeater.
8. Wait a few seconds. The security panel will detect the **RPT1** repeater.
9. The **„UID"** number must match the serial number of the repeater, which is indicated on the sticker on the repeater board.
10. Click **„Stop learning"** to complete the registration of wireless repeaters.

11. Click **„Yes"** for the wireless repeater *RPT1* to be written to the **„FLEXi" SP3** control panel.

12. The wireless repeater *RPT1* has been added to the list of **„Wireless"** devices.
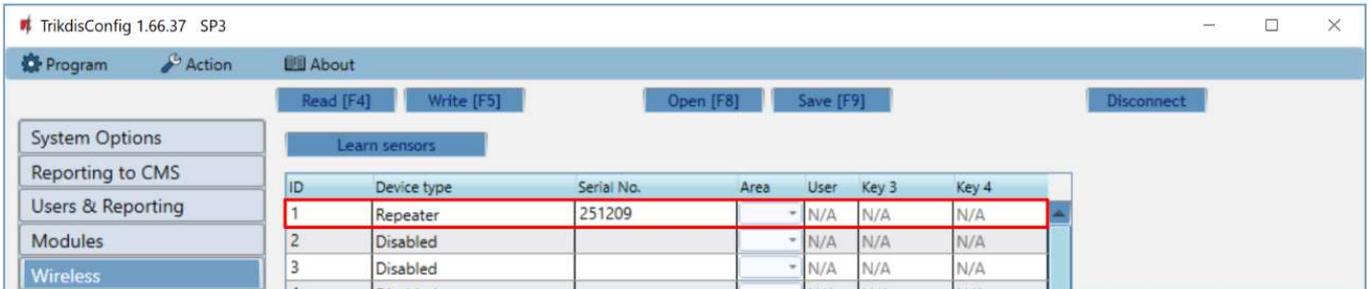
13. Click **Write [F5]** after making the changes.

14. The wireless repeater *RPT1* is now successfully linked to the system.

Note:	To delete wireless repeater *RPT1* from the **„FLEXi" SP3**'s memory:
	1. Connect a USB Mini-B cable to the **„FLEXi" SP3.**
	2. Launch **TrikdisConfig**, click the **Read [F4]** button.
	3. In the **TrikdisConfig** window **„Wireless"**, in the column **„Device type"**, select **„Disabled"** instead of the **„Repeater"** that you wish to delete and click **Write [F5]**. The repeater *RPT1* is now removed from the **„FLEXi" SP3**'s memory.