# Application of "Maximum" wireless sensors with the "FLEXi" SP3 control panel

November, 2024

### *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.

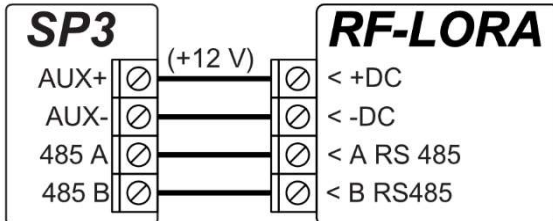| | |
|---|---|
| **Copyright** | © 2024 UAB "Trikdis". All rights reserved. |
| **Trademarks and patents** | Other trade names used in this document may be trademarks or registered trademarks belonging to their respective manufacturers or retailers. |
| **Manufacturer** | UAB „Trikdis", <br> Draugystes g. 17, LT-51229 Kaunas, Lithuania |
| **Version** | This document is applicable to *FLEXi SP3* security modules with firmware version v1.21 and up. |
| **Certification** | CE marking |
| **European Union directives** | 2004/108/EC (EMC directive) <br> 1999/5/EC (conformity directive) |
| **Contact information for inquiries** | Contact information can be found on the website www.trikdis.com |

## Contents
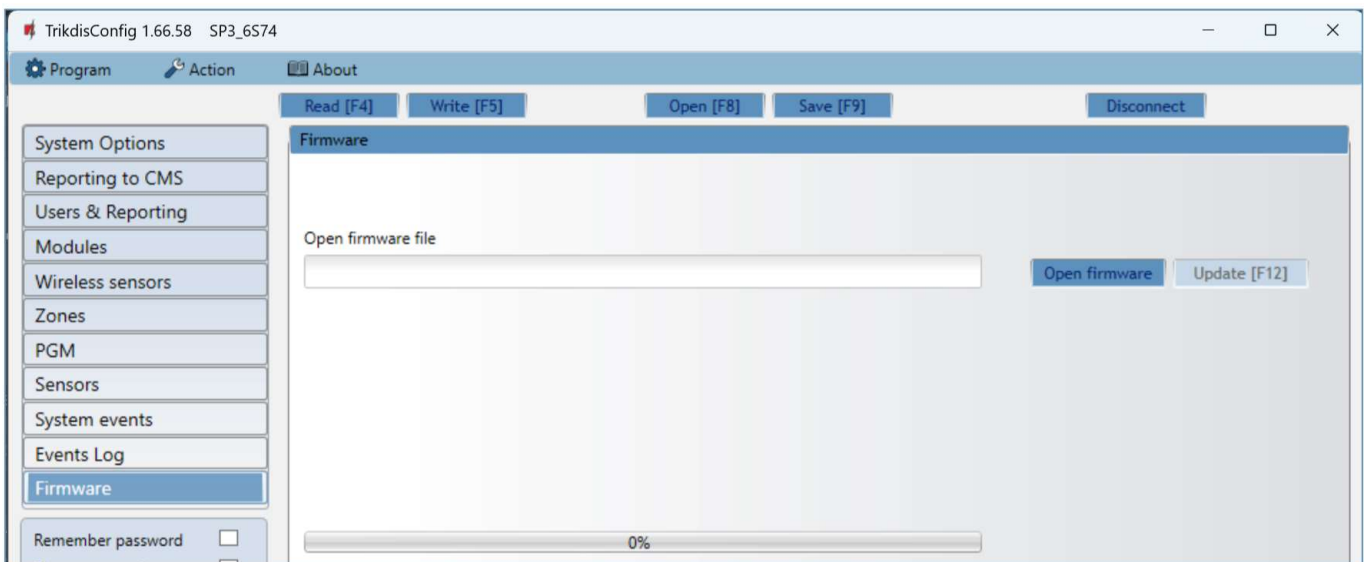
# 1    Control panel firmware replacement

The "*FLEXi*" *SP3* control panel firmware must be changed to revision 4 **SP3_xxx4_0121.fw** (firmware version 1.21 or higher), which will ensure the operation of "Maximum" wireless sensors. The *RF-LORA* wireless transceiver must be connected to the control panel.
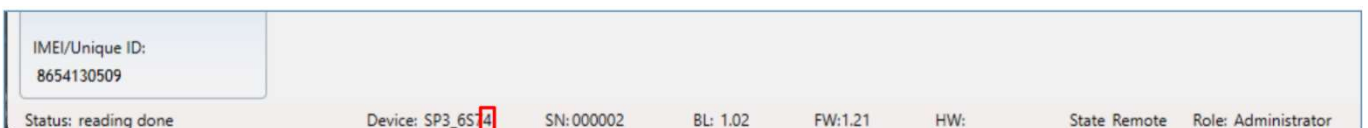
Follow the steps below to replace the firmware:

1.  Connect the *RF-LORA* transceiver and the "*FLEXi*" *SP3* according to the diagram.
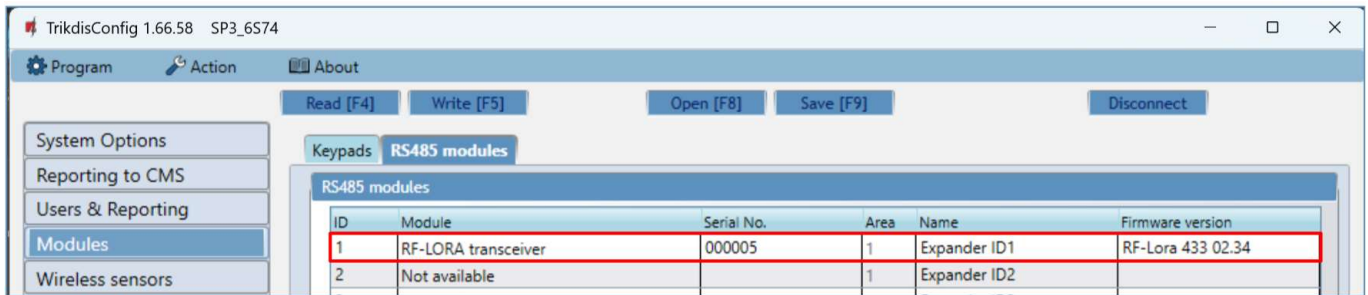


2.  Switch on the power supply to the "*FLEXi*" *SP3* control panel.
3.  Launch *TrikdisConfig*.
4.  Connect the "*FLEXi*" *SP3* to a computer using a USB Mini-B cable.
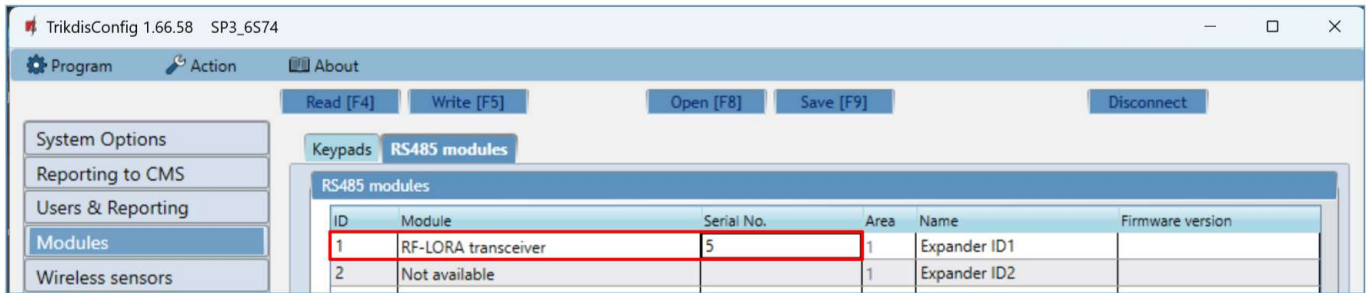5.  Open the *TrikdisConfig* window "**Firmware**".



6.  Click the "**Open Firmware**" button and select the **SP3_xxx4_0121.fw** firmware file.
7.  Click the **Update [F12]** button.
8.  Wait for the updates to finish.
9.  Disconnect the USB Mini-B cable.
10. Wait 1 minute.
11. Connect a USB Mini-B cable to the "*FLEXi*" *SP3*.
12. The *TrikdisConfig* status bar must contain the number 4 in the control panel name.



13. The list of modules should show "**RF-LORA transceiver**", as well as the serial number and firmware version. If you see the firmware version of the *RF-LORA* transceiver, you can skip steps 14-22.
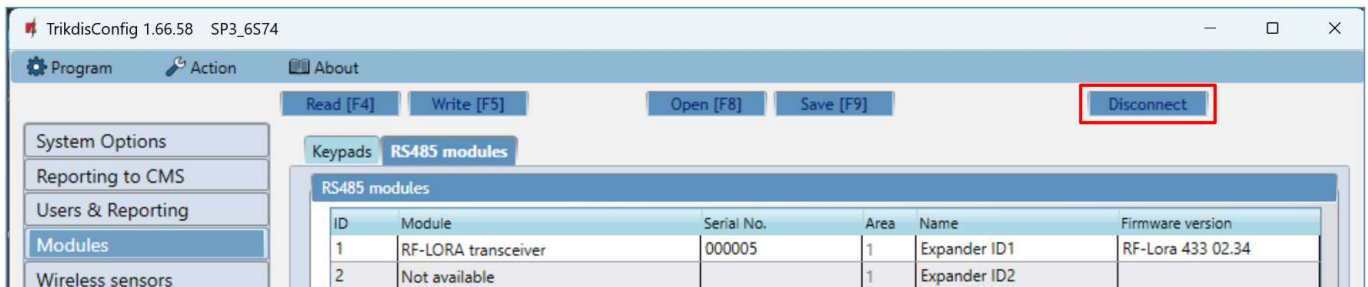
14. If the list does not indicate "**RF-LORA transceiver**", then you must select "**RF-LORA transceiver**" from the list.
15. In the "**Serial No.**" field, enter the serial number of the *RF-LORA* module. This serial number can be found on the device and the packaging sticker.



16. Click **Write [F5]**.
17. Disconnect the USB Mini-B cable.
18. Wait 1 minute for the "*FLEXi*" *SP3* and *RF-LORA* to link together.
19. Connect a USB Mini-B cable to the "*FLEXi*" *SP3*.
20. Click **Read [F4]**.
21. The firmware version of the *RF-LORA* will appear in the "**Modules**" window.



22. The *RF-LORA* module is now linked to the "*FLEXi*" *SP3*.
23. Disconnect the USB Mini-B cable.
24. Click "**Disconnect**".
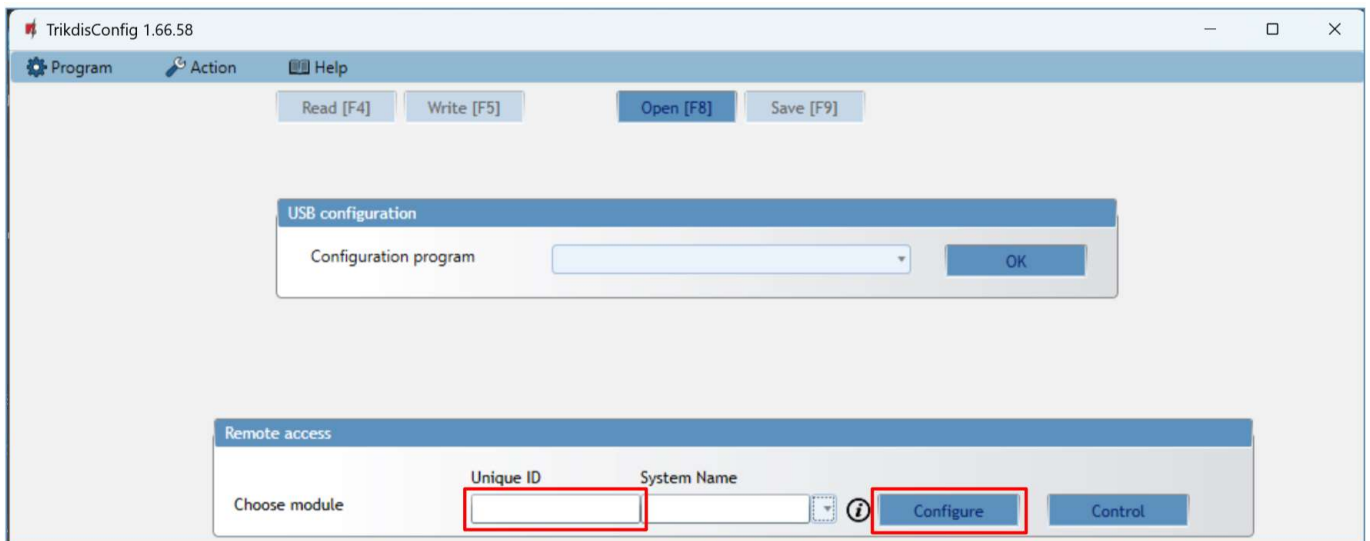


25. Wait 1 minute.

## 2   Linking a wireless sensors

### 2.1   Remote linking of wireless sensors

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

| | |
|---|---|
| **IMPORTANT:** | Remote configuration will only work when "*FLEXi*" *SP3*: |
| | 1. An activated SIM card must be inserted and the PIN code must be entered or disabled. |
| | 2. Mobile internet is activated on the SIM card. |
| | 3. *Protegus* cloud service must be enabled. |
| | 4. The power must be switched on ("**PWR**" LED must be green blinking). |
| | 5. Must be connected to network ("**NET**" LED must be green solid and yellow blinking). |

In the "**Remote access**" section enter the control panel "**IMEI/Unique ID**" number. This number can be found on the device and the packaging sticker.
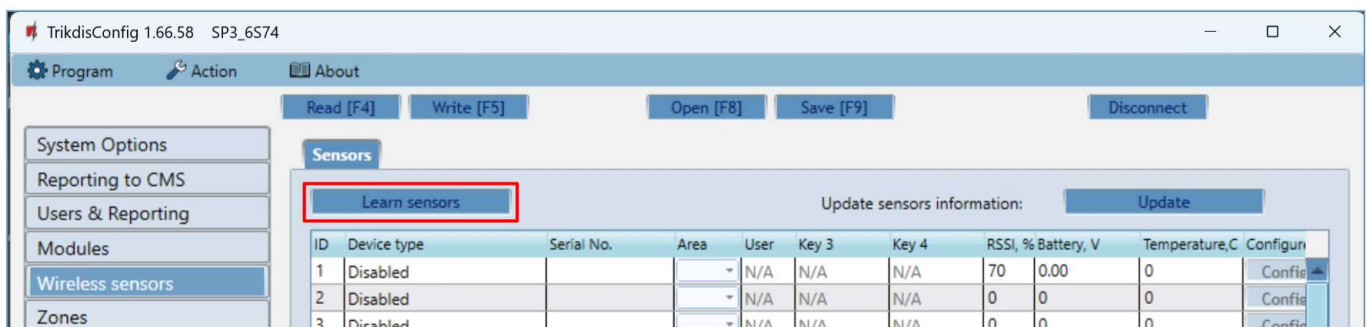


Click "**Configure**".

In the newly opened window click **Read [F4]**. If required, enter the administrator or installer code.

Go to the "**Wireless sensors**" window.
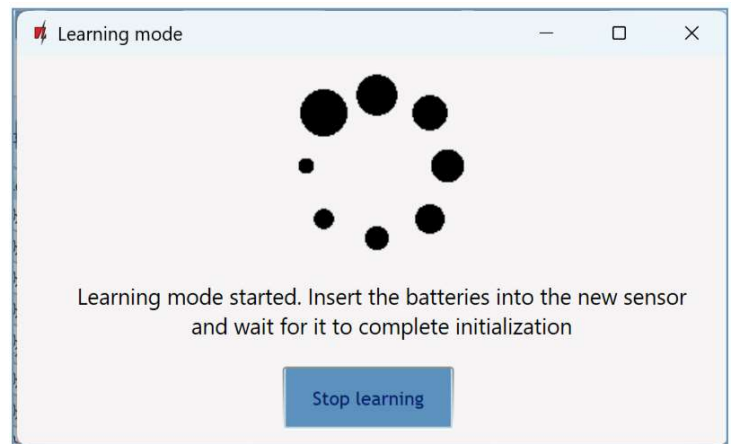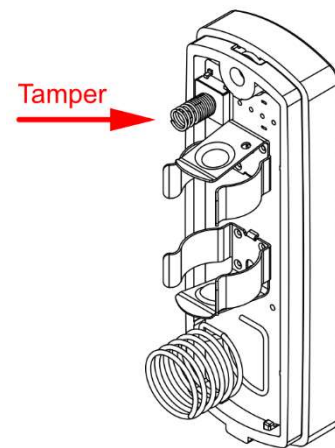


Click the "**Learn sensors**" button.

All wireless sensors can be linked simultaneously. Insert batteries into the wireless sensors (PIR, magnetic contact, flood detector, smoke detector, siren).

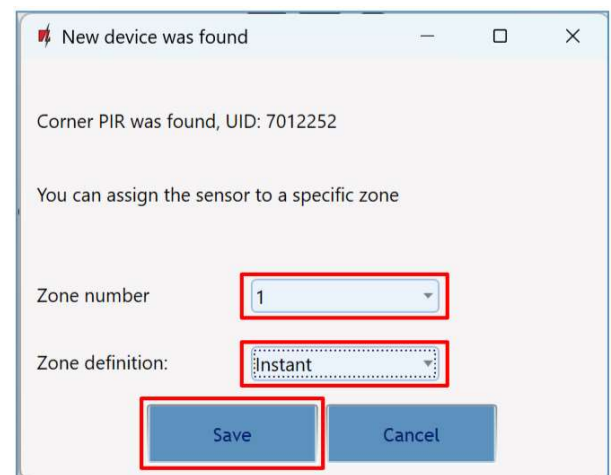**When enrolling sensors, the *RF-LORA* module must be at least 1 m from the sensors.**

1.  The "**DATA/TROUBLE**" LED on the *RF-LORA* module will flash green/red.

2.  *RF-LORA* module - switches to learning mode. *TrikdisConfig* will open the sensor binding window.



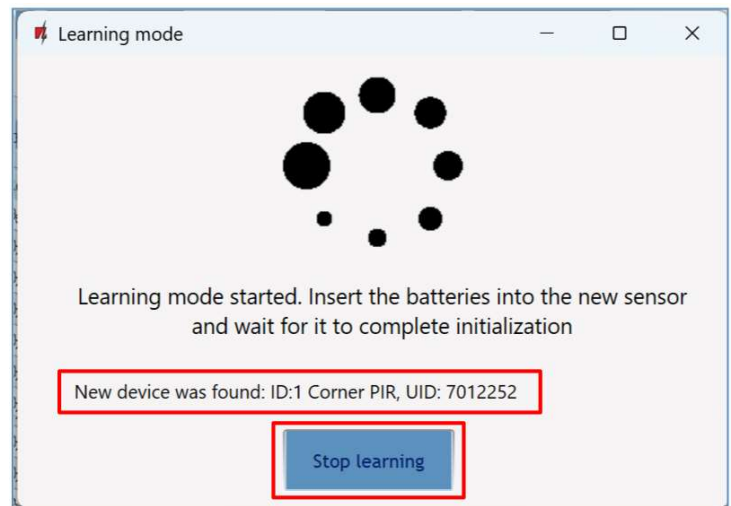3.  Press the "**TAMPER**" button on the sensor.



4.  On the *RF-LORA* module, the "**DATA/TROUBLE**" LED will flash green for a short time (this indicates that the sensor is enrolled). After a few seconds, the "**DATA/TROUBLE**" indicator will start flashing green/red again.

5.  *TrikdisConfig* will open a new window in which you need to assign a "**Zone Number**" and "**Zone Definition**" to the wireless sensor.
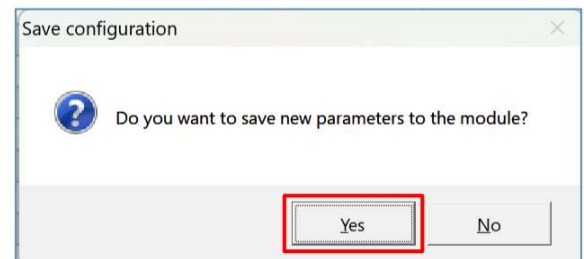
6.  Click "**Save**".

7.  Wireless sensor is included in the list of sensors.

8.  If you need to add the next sensor, you need to press the "**TAMPER**" button on the sensor. And make the settings described above.

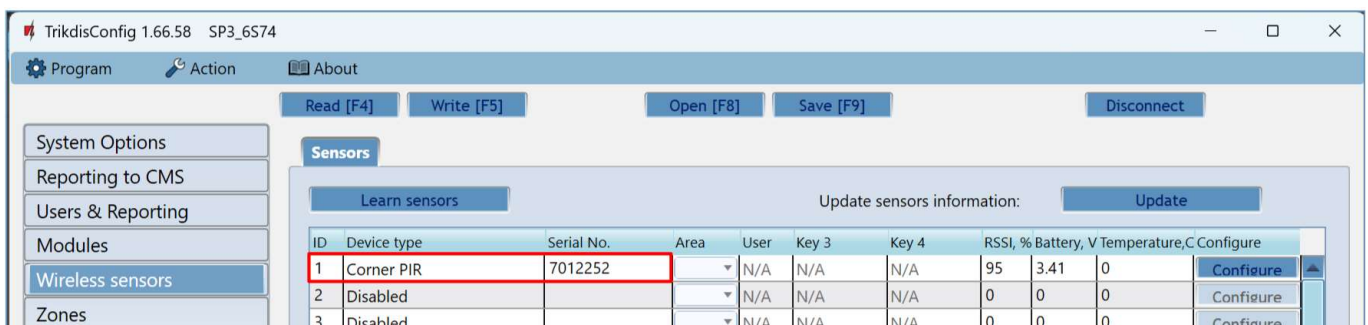9.  Click "**Stop learning**" to complete the registration of wireless sensors.



10. Click "**Yes**" for the sensors to be written to the "***FLEXi*** *SP3*" control panel or "**No**" if you want to adjust the parameters additionally.
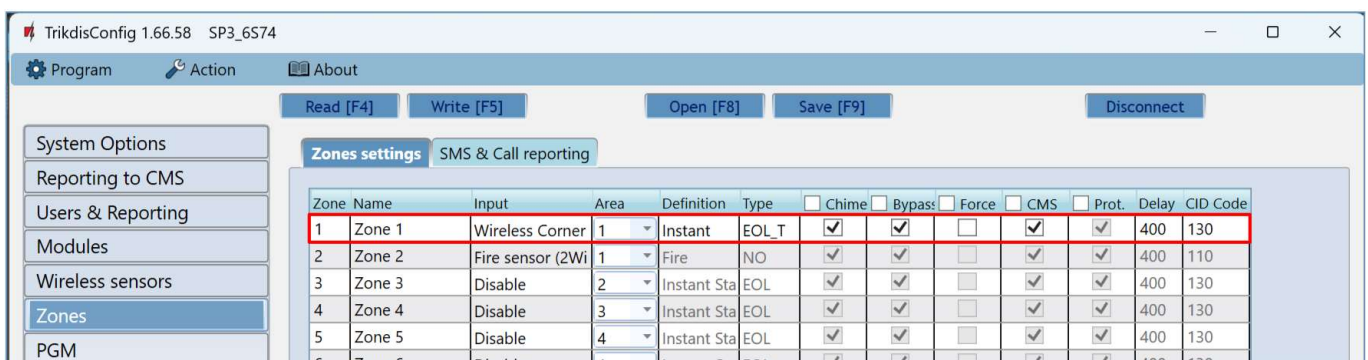


Wait a few minutes. Click **Read [F4].**

*TrikdisConfig* will display a list of registered wireless sensors in the "**Wireless sensors**" window. The "**Serial No.**" field will list the serial number.



Check that the sensors are correctly assigned to the "**Zones"** and "**Areas**" of the control panel ("**Zones**" window).



If you set zone **"Type"** EOL-T, then the sensor tamper monitoring mode will be enabled.

After making changes, press **Write [F5]**.

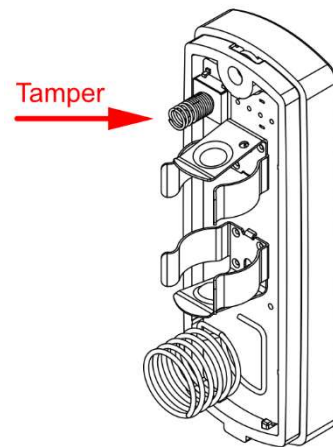| Note: | To delete wireless sensors from the "***FLEXi*** *SP3*'s memory: |
|---|---|
| | 1. Launch *TrikdisConfig.* |
| | 2. Connect the *„FLEXi" SP3* to a computer using a USB Mini-B cable or connect to the *„FLEXi" SP3* remotely. Click the **Read [F4]** button. |

> 3.  In the *TrikdisConfig* window "**Wireless sensors**", 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.
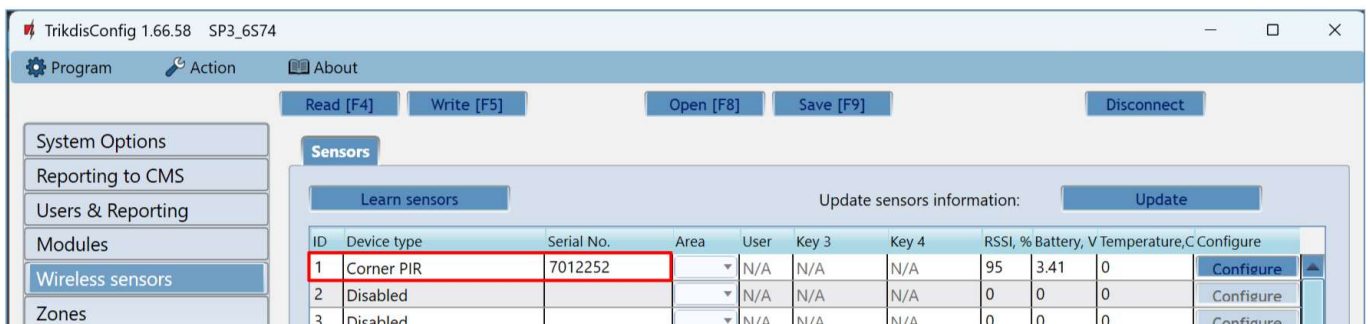
## 2.2   Linking wireless sensors without remote access

All wireless sensors can be linked simultaneously. Insert batteries into the wireless sensors (PIR, magnetic contact, flood detector, smoke detector, siren). **When enrolling sensors, the *RF-LORA* module must be at least 1 m from the sensors.**

1.  Make sure that the *RF-LORA* transceiver is registered with the *„FLEXi" SP3* security panel.
2.  Switch on the power supply to the "*FLEXi*" *SP3* control panel.
3.  Remove the cover from the *RF-LORA* transceiver.
4.  Press and hold the "**LEARN**" button on the *RF-LORA* module until the "**DATA/TROUBLE**" indicator starts flashing green/red.
5.  Release the "**LEARN**" button.
6.  The flashing "**DATA/TROUBLE**" indicator indicates that the *RF-LORA* is in the wireless device registration mode.
7.  Press the "**TAMPER**" button on the sensor.



8.  On the *RF-LORA* module, the "**DATA/TROUBLE**" LED will flash green for a short time (this indicates that the sensor is enrolled).
9.  After a few seconds, the "**DATA/TROUBLE**" indicator will start flashing green/red again.
10. If you need to add the next sensor, you need to press the "**TAMPER**" button on the sensor.
11. To complete the registration of wireless sensors, press and hold the "**LEARN**" button until the "**DATA/TROUBLE**" indicator stops flashing green/red. Release the "**LEARN**" button. The *RF-LORA* transceiver has exited the registration mode.
12. Connect a USB Mini-B cable to the "*FLEXi*" *SP3*.
13. Launch *TrikdisConfig*. Press the **Read [F4]** button.
14. *TrikdisConfig* window "**Wireless sensors**" will contain a list of registered wireless devices. In the field "**Serial No.**" 7- digit serial numbers will be written.



15. Check that the sensors are correctly assigned to the "**Zones**" and "**Areas**" of the control panel ("**Zones**" window).

16. After making changes, press **Write [F5]**.

17. Wireless sensors registered.