

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

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# 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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Manufacturer	UAB "Trikdis", Draugystes g. 17, LT-51229 Kaunas, Lithuania
Version	This document is applicable to <i>FLEXi SP3</i> security modules with firmware version v1.21 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 <u>www.trikdis.com</u>



# Contents

1	C	ontrol panel firmware replacement	. 4
2	Li	nking a wireless sensors	. 6
2	2.1	Remote linking of wireless sensors	. 6
2	2.2	Linking wireless sensors without remote access	. 9



# 1 Control panel firmware replacement

The "*FLEXi*" *SP3* control panel firmware must be changed to revision 4 **SP3\_xxx**<sup>4</sup>\_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".

📫 TrikdisConfig 1.66.58 SP3_6S7	'4	- D X
🔅 Program 🥜 Action	🕮 About	
	Read [F4] Write [F5] Open [F8] Save [F9]	Disconnect
System Options	Firmware	
Reporting to CMS		
Users & Reporting		
Modules	Open firmware file	
Wireless sensors		Open firmware Update [F12]
Zones		
PGM		
Sensors		
System events		
Events Log		
Firmware		
Remember password	0%	

- 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.

IMEI/Unique ID: 8654130509							
Status: reading done	Device: SP3_6S74	SN: 000002	BL: 1.02	FW:1.21	HW:	State Remote	Role: Administrator

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.



📫 TrikdisConfig 1.66.58 SP3_6S	74					- 0	>			
🔅 Program 🎤 Action 🕮 About										
	Read [F4]	Write [F5]	Open [F8] Save	[F9]		Disconnect				
System Options	Keypads	RS485 modules								
Reporting to CMS	RS485 m	odules								
Users & Reporting	ID	Module	Serial No.	Area	Name	Firmware version				
Modules	1	RF-LORA transceiver	000005	1	Expander ID1	RF-Lora 433 02.34				
Wireless sensors	2	Not available		1	Expander ID2					

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.

f TrikdisConfig 1.66.58 SP3_6S	74					- C	) ×			
🏟 Program 🥜 Action 🕮 About										
	Read [F4]	Write [F5]	Open [F8] Sav	e [F9]		Disconnect				
System Options	Keypads	RS485 modules								
Reporting to CMS	RS485 m	nodules								
Users & Reporting	ID	Module	Serial No.	Area	Name	Firmware version				
Modules	1	<b>RF-LORA</b> transceiver	5	1	Expander ID1					
Wireless sensors	2	Not available		1	Expander ID2					

- 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.

🔻 TrikdisConfig 1.66.58 SP3_6S7	TrikdisConfig 1.66.58 SP3_6S74												
🍄 Program 🔗 Action	D About												
	Read [F4]	Write [F5]	Open [F8] Save [	F9]		Disconnect							
System Options	Keypads	RS485 modules											
Reporting to CMS	RS485 mo	dules											
Users & Reporting	ID	Module	Serial No.	Area	Name	Firmware version							
Modules	1	RF-LORA transceiver	000005	1	Expander ID1	RF-Lora 433 02.34	1						
Wireless sensors	2	Not available		1	Expander ID2								

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

TrikdisConfig 1.66.58 SP3_6S74											
🔅 Program 🎤 Action											
	Read [F4]	Write [F5]	Open [F8] Save	[F9]		Disconnect					
System Options	Keypads	RS485 modules									
Reporting to CMS	RS485 m	odules									
Users & Reporting	ID	Module	Serial No.	Area	Name	Firmware version					
Modules	1	RF-LORA transceiver	000005	1	Expander ID1	RF-Lora 433 02.34					
Wireless sensors	2	Not available		1	Expander ID2						

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.

📫 TrikdisConfig	1.66.58		-	×
🔅 Program	🔑 Action	🕮 Help		
		Read [F4] Write [F5] Open [F8] Save [F9]		
		USB configuration		
		Configuration program 🔹 OK		
	Kem	ote access		
		Unique ID System Name		
	Cho	oose module Configure Control		

#### Click "Configure".

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

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

📫 TrikdisConfig 1.66.58 SP3_6S	74									<u> </u>	
🔅 Program 🛛 🎤 Action	🕮 Ab	out									
	Read	d [F4] Write [F5]		Open [F8		Save [F9]	]		Di	isconnect	
System Options	Ser	isors									
Reporting to CMS Users & Reporting		Learn sensors				Updat	e sensors info	ormation:		Update	
Modules	ID	Device type	Serial No.	Area	User	Key 3	Key 4	RSSI, 9	6 Battery, V	Temperature,C	Configure
Wireless sensors	1	Disabled		-	N/A	N/A	N/A	70	0.00	0	Confie
	2	Disabled		-	N/A	N/A	N/A	0	0	0	Config
Zones	3	Disabled		-	N/A	N/A	N/A	0	0	0	Config

#### Click the "Learn sensors" button.

TrikdisConfig 1.66.58 SP3_6S	74											>
🔅 Program 🔗 Action	🛄 Ab	out										
	Read	d [F4] Write [F5	i]	Open [F8]		Save [F9]			Dis	connect		
System Options	Ser	nsors										
Reporting to CMS											_	
Users & Reporting		Learn sensors				Update	e sensors infor	mation:		Update	_	
Modules	ID	Device type	Serial No.	Area	User	Key 3	Key 4	RSSI, 9	6 Battery, V	Temperature,C	Configure	
Wireless sensors	1	Disabled		*	N/A	N/A	N/A	70	0.00	0	Confie	
	2	Disabled		-	N/A	N/A	N/A	0	0	0	Config	
Zones	3	Disabled		-	N/A	N/A	N/A	0	0	0	Config	



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







- 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.
- 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".

New device was fo	und	1	-	0	×
Corner PIR was found	, UID: 701225	2			
You can assign the se	nsor to a spec	cific zone			
Zone number	1	,	-		
Zone definition:	Instant		3		
	Save	Cance	el		



# Security control panel "FLEXi" SP3

- 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.



Yes

No

 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.

TrikdisConfig 1.66.58 SP3_6S	74										- 0	
🛱 Program 🛛 🎤 Action	🛄 Abo	out										
	Read	i [F4] Write [F5]		Open [F8		Save [F9	1		(	Disconnect		
System Options	Sen	sors										
Reporting to CMS									_			
Users & Reporting	ī I L	Learn sensors				Updat	te sensors info	ormation:		Update		
Modules	ID	Device type	Serial No.	Area	User	Key 3	Key 4	RSSI,	% Battery,	V Temperature,C	Configure	
Wireless sensors	1	Corner PIR	7012252		N/A	N/A	N/A	95	3.41	0	Configure	-
	2	Disabled		Y	N/A	N/A	N/A	0	0	0	Configure	
Zones	3	Disabled	1	-	N/A	N/A	N/A	0	0	0	Configure	

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

TrikdisConfig 1.66.58 SP	5_6574												—	
🔅 Program 🛛 🔗 Action	n 🛄 Abo	out												
	Read	[F4] W	/rite [F5]		Open [F	8]	Save [F9]				Disc	connect	t	
System Options Reporting to CMS	Zon	es settings	SMS & Call reporting											
Users & Reporting	Zon	e Name	Input	Area	Definition	Туре	Chime	Bypas:	Force		Prot.	Delay	CID Code	
1 5	1	Zone 1	Wireless Corner	1	<ul> <li>Instant</li> </ul>	EOL_T	~	$\checkmark$		~	~	400	130	
Modules	2	Zone 2	Fire sensor (2Wi	1	Fire	NO	~	~		~	~	400	110	1
Wireless sensors	3	Zone 3	Disable	2	<ul> <li>Instant S</li> </ul>	ta EOL	~	~		~	~	400	130	
Zones	4	Zone 4	Disable	3	<ul> <li>Instant S</li> </ul>	ta EOL	~	~		~	~	400	130	
	5	Zone 5	Disable	4	<ul> <li>Instant S</li> </ul>	ta EOL	~	~		~	~	400	130	
PGM	6	Zone 6	Dicable		▼ Instant S	10000	1	1		1	1	100	130	

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.
- 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.



- 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.

🕫 TrikdisConfig 1.66.58 SP3_6	S74													×
🍄 Program 🥜 Action		Abou	ıt											
	F	Read	[F4] Write [F5]		Open [F8		Save [F9	2		1	Disconnect			
System Options Reporting to CMS Users & Reporting		Sens	Learn sensors				Upda	te sensors info	ormation:		Update	2		
Modules		ID	Device type	Serial No.	Area	User	Key 3	Key 4	RSSI, 9	6 Battery, N	V Temperature,	C Configu	re	
Wireless sensors	1	1	Corner PIR	7012252	v	N/A	N/A	N/A	95	3.41	0	Confi	gure	
	$\exists$	2	Disabled			N/A	N/A	N/A	0	0	0	Confi	igure	
Zones		3	Disabled		-	N/A	N/A	N/A	0	0	0	Confi	gure	

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



TrikdisConfig 1.66.58 SP3_6S7	4												-	
🕻 Program 🛛 🔑 Action	🛄 Abo	ut												
	Read	[F4] W	rite [F5]		Oper	[F8]	Save [F9]				Dise	connec	t	
System Options	Zon	es settings	MS & Call reporting											
Reporting to CMS	2011	es settings	wis & can reporting											
		1			- C - 1	ann 1 <u>16</u>	1 100 K / 100 K	-		-	-			
Licore & Poporting	Zone	e Name	Input	Area	Definit	on Type	Chime	Bypass	Force	CMS	Prot.	Delay	CID Code	
Users & Reporting	Zoni 1	Zone 1	Unput Wireless Corner	-	<ul> <li>Definit</li> <li>Instan</li> </ul>	1	I	Bypass	Force		Prot.	Delay 400	CID Code 130	
Users & Reporting Modules	Zone 1 2			1			I		Force	-		1	1	
1 0	1	Zone 1	Wireless Corner	1	<ul> <li>Instan</li> <li>Fire</li> </ul>	EOL_T	<ul> <li>Image: A start of the start of</li></ul>	~	Force	~	~	400	130	
Modules Wireless sensors	1	Zone 1 Zone 2	Wireless Corner Fire sensor (2Wi Disable	1	<ul> <li>Instan</li> <li>Fire</li> <li>Instan</li> </ul>	EOL_T	<ul> <li>✓</li> </ul>	>	Force	<b>&gt;</b>	> >	<b>400</b> 400	130 110	
Modules	1 2 3	Zone 1 Zone 2 Zone 3	Wireless Corner Fire sensor (2Wi Disable	1 1 2	<ul> <li>Instan</li> <li>Fire</li> <li>Instan</li> <li>Instan</li> </ul>	EOL_T NO	<b>&gt;</b>	<	Force	<ul> <li></li> <li></li> </ul>	> >	400 400 400	<b>130</b> 110 130	

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

17. Wireless sensors registered.