

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 www.trikdis.com



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**⁴_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	TrikdisConfig 1.66.58 SP3_6S74 — — 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_6ST4	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_657	📫 TrikdisConfig 1.66.58 SP3_6S74 — 🗆 🗙											
🔅 Program 🎤 Action 🕮 About												
Read [F4] Write [F5] Open [F8] Save [F9] Disconnect												
System Options	Keypad	ds RS485 modules										
Reporting to CMS	RS48	5 modules										
Users & Reporting	ID	Module	Serial No.	Area	Name	Firmware version						
Modules	1	RF-LORA transceiver	000005	1	Expander ID1	RF-Lora 433 02.34						
	2	Not available	the second s	1	Expander ID2	energy and here an energy and the second						

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	TrikdisConfig 1.66.58 SP3_6S74 — 🗆 🗙										
🏶 Program 🛛 🔑 Action	Device About										
	Disconnect										
System Options	Keypads RS485 modules										
Reporting to CMS	RS485 modules										
Users & Reporting	ID Module	Serial No. Ar	rea Name	Firmware version							
Modules	1 RF-LORA 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_6S	TrikdisConfig 1.66.58 SP3_6574 - C ×											
🏶 Program 🛛 🎤 Action	M About											
	Read [F4]	Write [F5]	Open [F8] Save	[F9]		Disconnect						
System Options	Keypads	RS485 modules										
Reporting to CMS	RS485 mc	dules										
Users & Reporting	ID Module 1 RF-LORA transceiver		Serial No.	Area	Name	Firmware version						
Modules			000005	1	Expander ID1	RF-Lora 433 02.34	4					
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 SI	93_6574							-	×
🔅 Program 🛛 🔑 Actio	n 🛄 Al	bout							
	Rea	ad [F4]	Write [F5]	Open [F8] Save [F9]		Disconnect		
System Options	Ke	ypads	RS485 modules						
Reporting to CMS		3485 mc	odules						
Users & Reporting		ID	Module	Serial No.	Area	Name	Firmware	version	
Modules		1	RF-LORA transceiver	000005	1	Expander ID1	RF-Lora 4	33 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 CK		
	Kem	ote access		
		Unique ID System Name		
	Cho	pose 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_6S7	4									<u> </u>		×
🔅 Program 🎤 Action	🛄 Ab	out										
	Read [F4] Write [F5] Open [F8] Save [F9]											
System Options Reporting to CMS Learn sensors Update sensors information: Update												
Users & Reporting	Serial No.	Area	User	Key 3	Key 4	RSSI 9	Battery V	Temperature C	Configure			
Wireless concert	1	Disabled		-	N/A	N/A	N/A	70	0.00	0	Config	-
wireless sensors	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_6S74	4									_	
🔅 Program 🔗 Action		bout									
Read [F4] Write [F5] Open [F8] Save [F9]											
System Options Sensors											
Reporting to CMS									-		-
Users & Reporting		Learn sensors				Update	sensors infor	mation:	_	Update	_
Modules	10	D 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 🔺
Wireless sensors	2	Disabled		-	N/A	N/A	N/A	0	0	0	Confie
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 found	11	×
Corner PIR was found, UID: 7012252		
You can assign the sensor to a specific zone	e	
Zone number	*	
Zone definition:	Ŧ	
Save C	ancel	



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_6S74	1										-		×		
🔅 Program 🔗 Action	🛄 Abo	out													
	Read [F4] Write [F5] Open [F8] Save [F9]										Disconnect				
System Options Reporting to CMS Users & Reporting	Sen	Learn sensors				Updat	e sensors info	rmation:		Update					
Modules	ID	Device type	Serial No.	Area	User	Key 3	Key 4	RSSI, 9	Battery, V	V Temperature,C	Configure		1		
Wireless sensors	1	Corner PIR	7012252	•	N/A	N/A	N/A	95	3.41	0	Configu	re 🔺			
	2	Disabled		· · · ·	N/A	N/A	N/A	0	0	0	Configu	re			
Zones	3	Disabled		×	N/A	N/A	N/A	0	0	0	Configu	re			

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

TrikdisConfig 1.66.58 SP3_6S74														-		×
🔅 Program 🔗 Action 🛛	M Abou	ut														
	Read [F4] Write [F5]					Open [F8]	Disc	Disconnect								
System Options	Zone	s settings SMS	5 & Call reporting	1												
Reporting to CMS		<u> </u>														
Users & Reporting	Zone	Name	Input	Area		Definition	Туре	Chime	Bypass	Force	CMS	Prot.	Delay	CID Code		
users a neporting	1	Zone 1	Wireless Corner	1	-	Instant	EOL_T	-	~		-	~	400	130		
Modules	2	Zone 2	Fire sensor (2Wi	1	*	Fire	NO	~	~		~	~	400	110		
Wireless sensors	3	Zone 3	Disable	2	Ŧ	Instant Sta	EOL	~	~		~	~	4 00	130		
Zones	4	Zone 4	Disable	3	•	Instant Sta	EOL	~	~		~	~	400	130		
DCM	5	Zone 5	Disable	4	•	Instant Sta	EOL	~	~		~	~	400	130		
PGM	6	Zone 6	Dicable	1	*	Instant Sta	FOI	1	1		1	1	400	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_6S7	4										- C	X נ
🍄 Program 🛛 🎤 Action	M A	bout										
	Rei	ad [F4] Write [F5]		Open [F8]		Save [F9]	1	Disconnect				
System Options	Se	ensors										
Reporting to CMS		Learn sensors				Update	sensors inform	nation.	1	Update		
Users & Reporting			1	1	1	opuate		lation	_			
Modules	ID	Device type	Serial No.	Area	User	Key 3	Key 4	RSSI, %	Battery,	V Temperature, C	Configure	
Wireless sensors	1	Corner PIR	7012252	v	N/A	N/A	N/A	95	3.41	0	Configur	e 🔺
Witeless sensors	2	Disabled		v	N/A	N/A	N/A	0	0	0	Configur	e
Zones	3	Disabled			N/A	N/A	N/A	0	0	0	Configur	e

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



TrikdisConfig 1.66.58 SP3_6S74														-		×	
🗱 Program 🛛 🎤 Action	M Abou	ut															
	Read	[F4] Write	Open [F8] Save [F9] Disconr										iect				
System Options																	
Reporting to CMS			o ca can reporting														
Users & Reporting	Zone	Name	Input	Area		Definition	Туре	Chime	Bypass	Force	CMS	Prot.	Delay	CID Code			
Users & Reporting	1	Zone 1	Wireless Corner	1	*	Instant	EOL_T	-	~		~	~	400	130			
Modules	2	Zone 2	Fire sensor (2Wi	1	*	Fire	NO	~	~		~	~	400	110			
Wireless sensors	3	Zone 3	Disable	2	-	Instant Sta	EOL	~	~		~	~	4 00	130			
Zones	4	Zone 4	Disable	3	*	Instant Sta	EOL	~	~		~	~	400	130			
DCM	5	Zone 5	Disable	4	-	Instant Sta	EOL	~	~		~	~	400	130			
PGM	6	Zone 6	Dicable	1	-	Inctant Sta	FOI	1	1		1	1	400	130			

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

17. Wireless sensors registered.