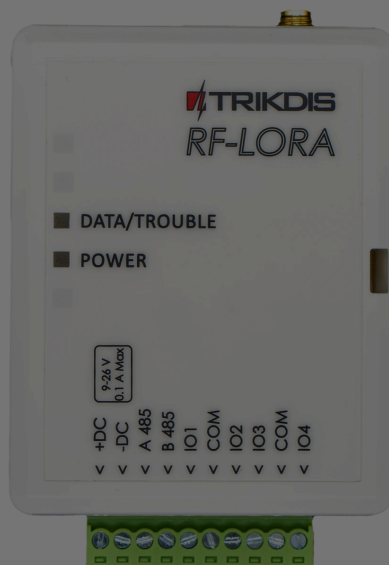


RF-LoRa Wireless Expander



I. Description

The **RF-LORA** transceiver with iO-LORA and iO-8-LORA wireless expanders increases the number of inputs and outputs of the "FLEXi" SP3 control panel using two-way RF communication.

Compatible with the SP3 security control panel, GATOR Cellular and GATOR WiFi gate & door access controllers. Up to 8 LORA modules (iO-LORA, iO-8-LORA, PB-LORA) can be connected to the "FLEXi" SP3 control panel using the RF-LORA transceiver.

I.1 Features

Communication:

- Line-of-sight wireless range up to 5000 m.
- One *RF-LORA* transceiver can be connected to the "FLEXi" SP3 control panel

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Accept

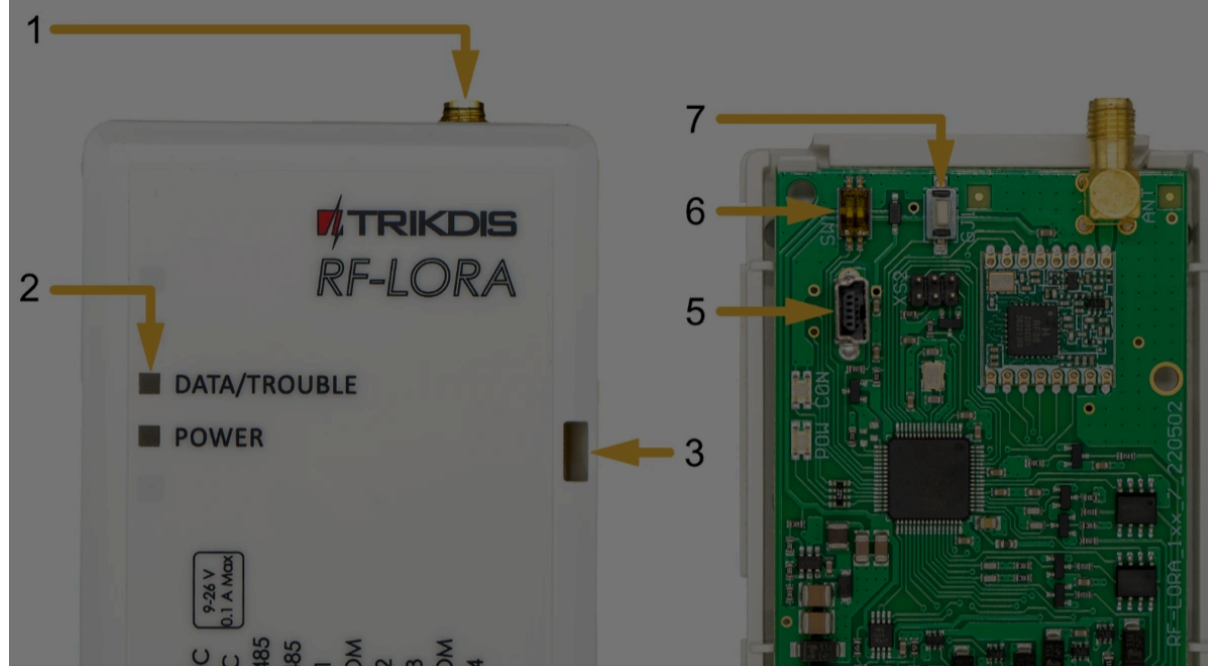
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1.2 Specifications

Parameter	Description
Transmission frequency	8F modification: 867-869 MHz / 4F modification: 433,3-434,7 MHz
Modulation type	LORA
Power supply voltage	9-26 V DC
Current consumption	Up to 50 mA (stand-by) / Up to 150 mA (short-term, while sending)
Report encryption	Yes
Range in open space	Up to 5000 m
Operating environment	Temperature from -20 °C to +50 °C, relative humidity - up to 80% at +20 °C
Dimensions	62 x 82 x 25 mm
Weight	80 g

1.3 Expander elements



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1.4 Purpose of terminals

Terminal	Description
+DC	Power terminal (9-26 V DC positive)
-DC	Power terminal (9-26 V DC negative)
A 485	RS485 bus A contact
B 485	RS485 bus B contact
IO1-IO4	Not used
COM	Not used

1.5 LED indication of operation

Indicator	Light status	Description
DATA/TROUBLE	Blinking/Lighting red	Communication with the module is broken
DATA/TROUBLE	Blinking green/red	LORA modules linking mode
DATA/TROUBLE	Green lights up for 3 seconds	Pre-bound LORA module (in learning mode)
POWER	Off	No supply voltage
POWER	Green blinking	Normal supply voltage level
POWER	Yellow blinking	Low supply voltage level (≤ 11.5 V)
POWER	Yellow	No communication with "FLEXi" SP3 control panel via RS485

2. Wiring schematics

2.1 Fastening

1. Remove the top lid.



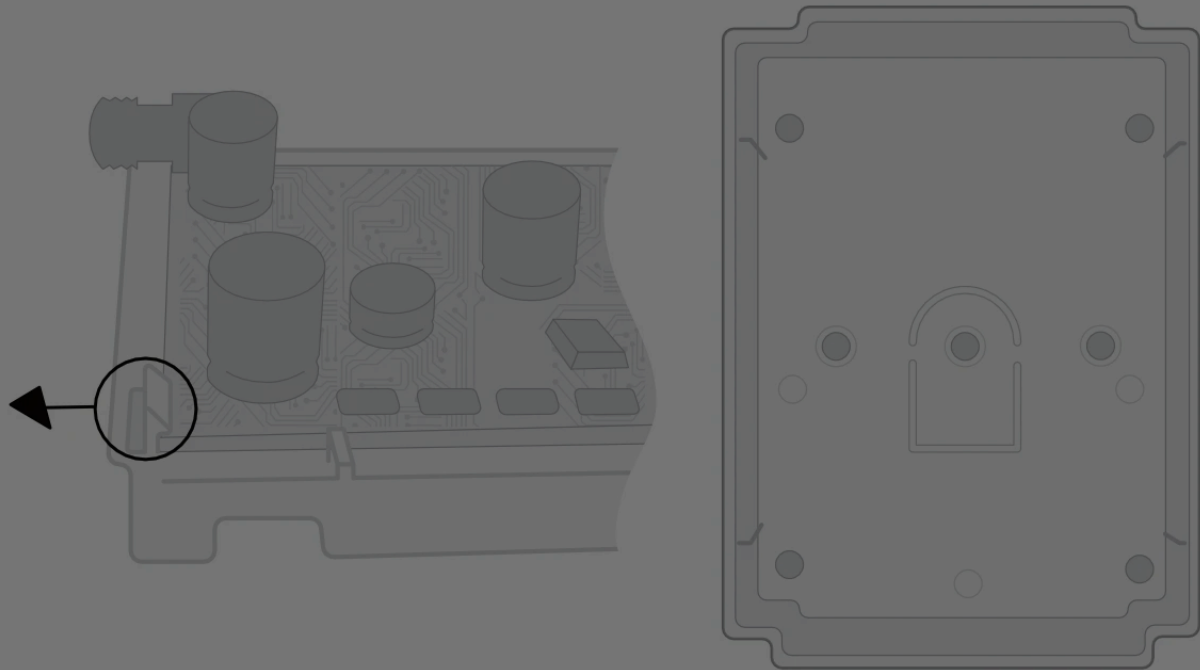
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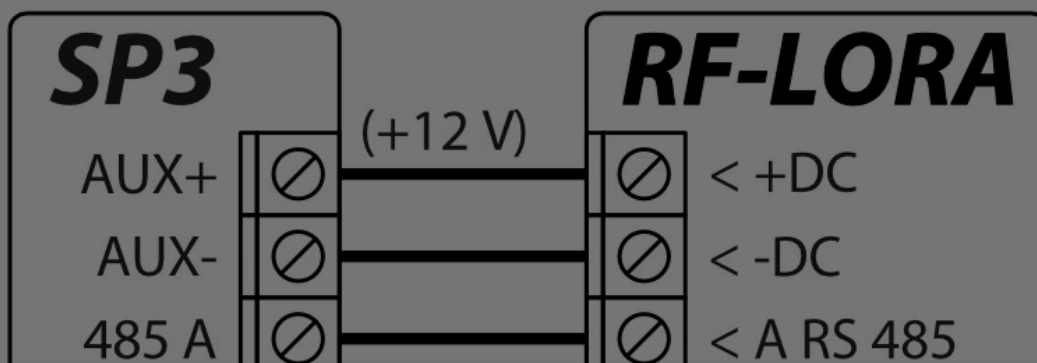
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3. Fasten the base of the case in the desired place using screws.
4. Reinsert the PCB board.
5. Close the top lid.



2.2 Schematic of RF-LORA transceiver connection to "FLEXi" SP3 control panel



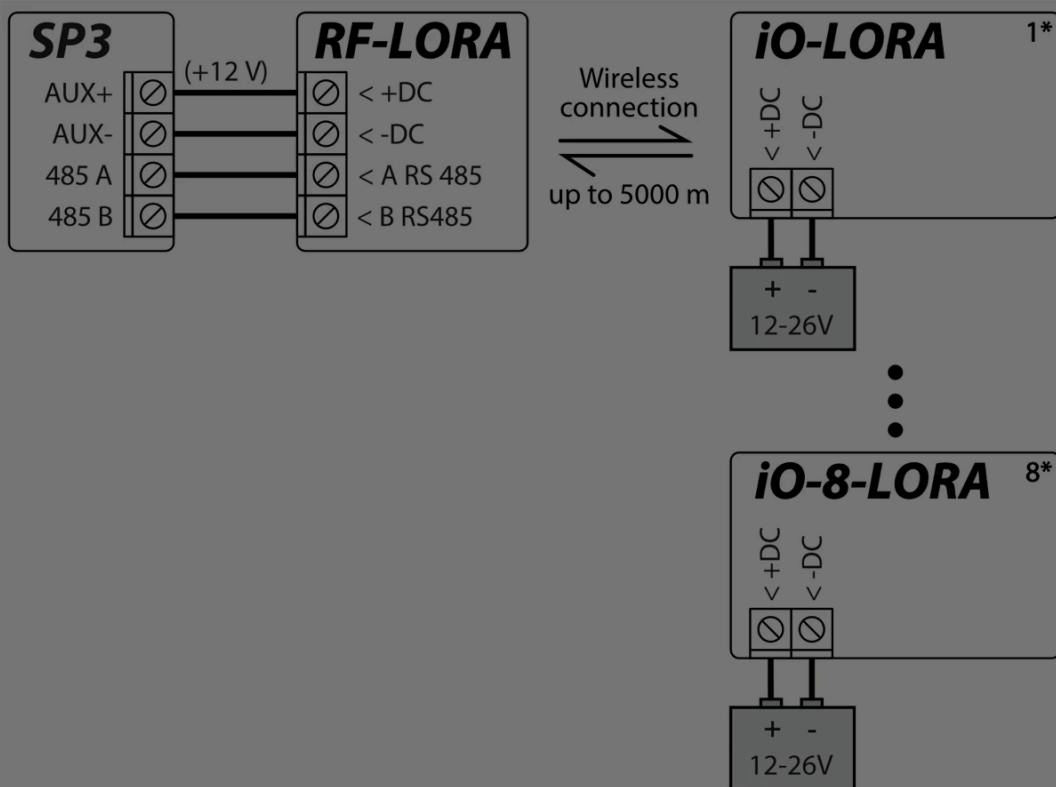
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2.3 Schematics for connecting LORA modules



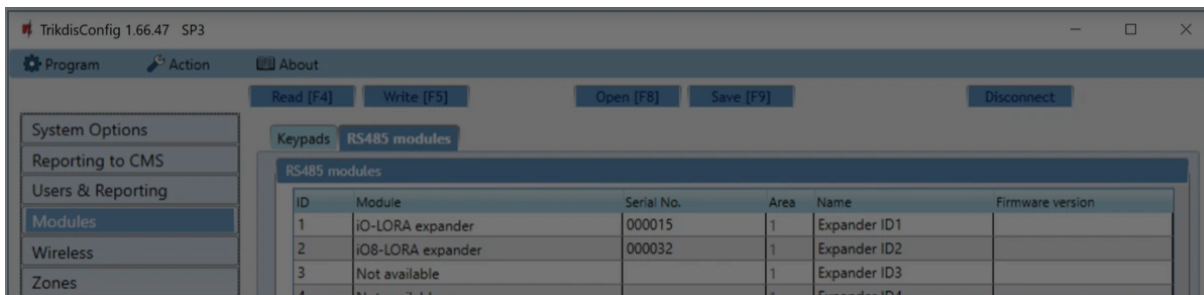
3. Configuration with TrikdisConfig

1. An RF-LORA transceiver must be connected to the "FLEXi" SP3 control panel.
2. Turn on the power supply of the "FLEXi" SP3 control panel.
3. Turn on the power supply to the iO-LORA and/or iO-8-LORA wireless expanders.
4. Launch **TrikdisConfig**.
5. Connect the "FLEXi" SP3 to a computer using a USB Mini-B cable or connect to the "FLEXi" SP3 remotely.
6. Click the button **Read [F4]** for the program to read the parameters currently set for the "FLEXi" SP3 control panel. If a window for entering the Administrator code opens, enter

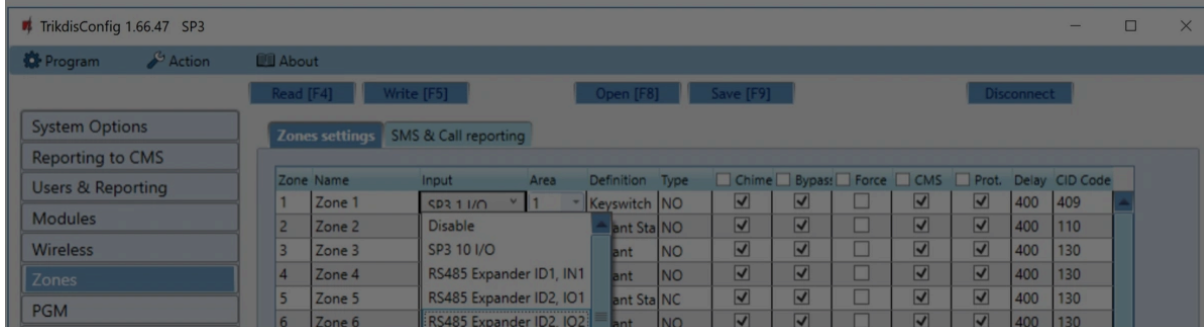
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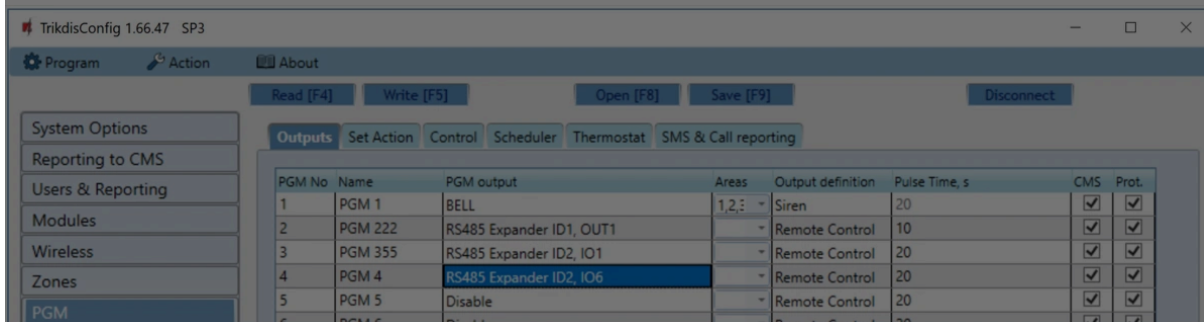
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9. In the "**Zones**" tab, make settings for the expander's input.



10. In the "**PGM**" tab, configure the expander's PGM output.



11. Once configuration is complete, click the **Write [F5]** button.

12. Wait for the updates to finish.

13. Click the "**Disconnect**" button and disconnect the USB cable.

14. Trigger the inputs and switch outputs to test the device.

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Any changes, modifications or repairs not authorized by the manufacturer shall render the warranty void.

Please adhere to your local waste sorting regulations and do not dispose of this equipment or its components with other household waste.

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