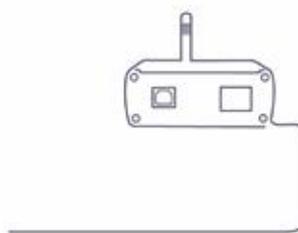


# INSTALATION MANUAL

for Smart RF box eLAN-RF-103



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**Before you begin!**

*The instructions are intended for use for installation and user of the device. Instructions are always included. Carry out the installation after complete familiarization with the instructions and functions of the device. The trouble-free operation of the device depends on the previous method of transport, storage and handling. If you find any signs of damage, deformation, malfunction or missing part, do not install this product and claim from the seller. The product or its parts shall be treated as electronic waste at the end of its life. Before starting the installation, make sure that all wires, connected parts are voltage-free. During installation and maintenance, it is necessary to comply with safety regulations, standards, directives and professional provisions for working with electrical equipment.*

Congratulations on your purchase of the eLAN-RF-103 RF Smart Box, which is part of the RF Control wireless system.

- The RF smart box allows you to control the wiring with your smartphone or using the voice assistants Google Home and Amazon Alexa.
  - Transmits and receives commands from up to 70 components and processes set programs for automatic regulation (you can gradually expand the installation from 1 component iNELS RF Control).
  - Thanks to two-way communication, it visualizes the current state of individual components.
  - RF Smart box eLAN-RF-103 is a LAN network cable connected to the home network (router) and communicates with the smartphone.
  - The intuitive app interface offers central control from one place.
  - iNELS app features:
    - regulation of hot water or electric underfloor heating
    - temperature measurement by wireless sensors
    - switching of appliances (garage doors, blinds, fan, irrigation, sockets...)
    - dimming of lights (LED, energy-saving, halogen or classic bulbs)
    - time switching (delayed switching off of the light when leaving the room)
    - remote control
    - scenes (press one time to execute multiple commands at once)
  - If you do not have a fixed IP address, the smart RF box will get it from the DHCP server automatically.
  - Power supply of the Smart RF box using a 5V DC adapter (included).
  - Possibility to set via **the iNELS application**.
  - Internal AN-I antenna is included, if the RF Smart box is located in a metal switchboard, you can use an external AN-E antenna\* to improve the signal.
  - Range up to 100 m (in open space), in case of insufficient signal between the RF smart box and the component, use the RFRP-20 signal repeater.
  - Communication frequency with bidirectional protocol iNELS RF Control.
- \* Max. antenna connector tightening torque: 0.56 Nm.

#### Notification:

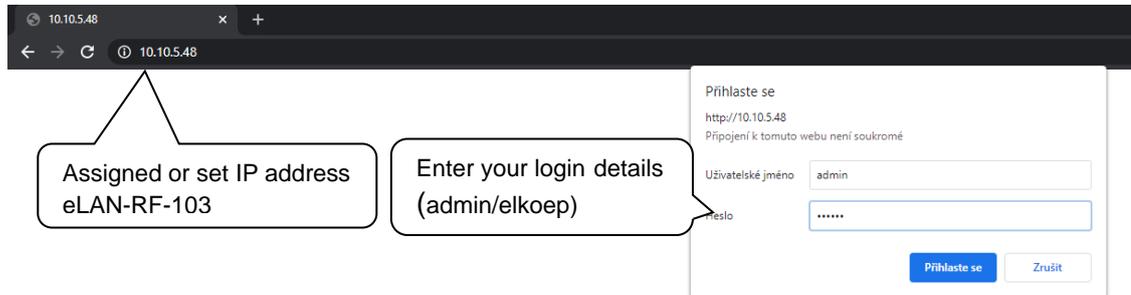
The minimum distance between the controller (system unit) and the element must not be less than 1cm.

#### Setting options:

- max. number of actuators - 70
- max. number of temperature zones – 16
- max. number of timetables - 20, (max. 20 assigned actuators or HCAs in the plan)
- max. number of central sources - 5
- max. number of heating and cooling devices in the temperature zone - 10 actuators for HEAT and max. 10 actuators for COOL, total 20
- max. number of intervals in the timetable – 8
- max. number of rooms: 60, (max. 32 actuators in the room)
- max. number of scenes: 30, (max. 30 actions in scene)

## 1. Installation eLAN-RF-103, IP address

1. Connect the eLAN-RF-103 to the power supply via an Ethernet cable to your local network. Your local network (router) assigns an eLAN-RF-103 IP address. By default, the eLAN-RF-103 is set to automatic IP address retrieval (DHCP).



- *Login*

1. In the installed application, in the **account / gateway administration** menu, press **the + icon** - the **search** will start. You will see the eLAN-RF-103 found, which is located in your network to which you are currently connected by your phone (home network) and their IP addresses. Here you will find the IP address assigned to the eLAN-RF-103.
2. Alternatively, it is possible to use the ELKO Finder search software and enter the eLAN IP address manually. SW to download here:

<https://www.elkoep.cz/media/import/Elko/eLAN/eLAN-RF-003/CS/ELKO%20Finder%202.1.003.rar>

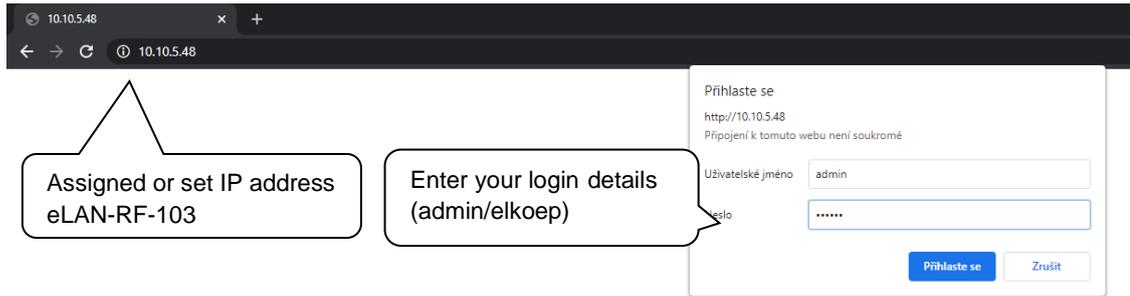
- You can install the application on your smartphone:
  - For mobile phone with Android OS: download the current version on **Google Play** under the name **iNELS**.
  - for mobile phones with IOS: App **Store** under the name **iNELS** download the current version.

## 2. Login to the web interface eLAN-RF-103

- You start a web browser.
- In your Internet browser, add the IP address of your eLAN-RF-103 to the **address** bar.
- After confirming the specified IP address, the login page of the web server is loaded.
- The factory setting for administrator login is:

**Name: admin**

**Password: elkoep**



You can log in to the eLAN-RF-103 web interface as:

- Administrator (admin) - has all rights to set and control
- Owner - has limited rights for setting and controlling
- User- (user) - can only control the device
- Users log in to the dialog boxes – **Name, Password** (each with their own name and password).
- Login can be confirmed by clicking on **the Login** button

*Note: Reset the eLAN-RF-103 element can be done by long pressing the button for 10s on the front panel of the device. The IP address and credentials are reset to factory settings and set to automatic IP address retrieval (DHCP).*

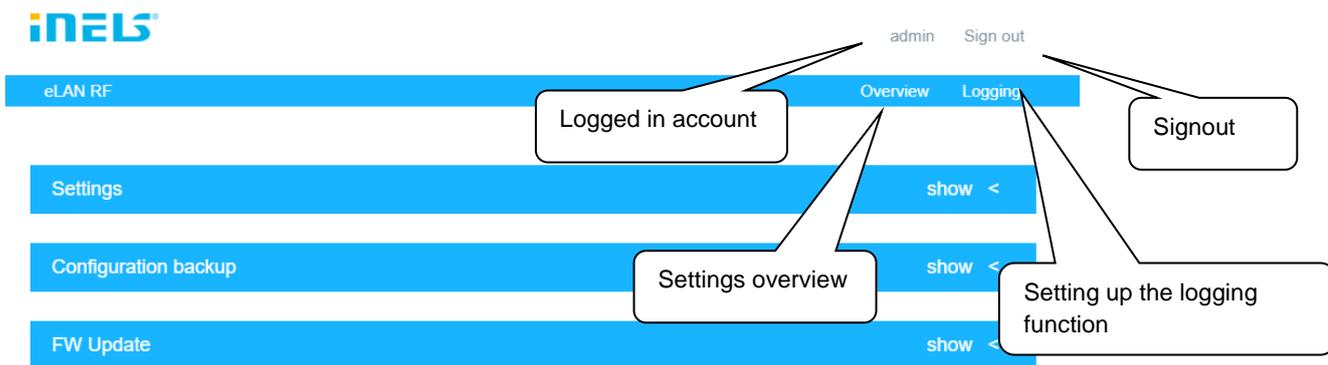
*After 5s, only the network settings are reset, after another 5s, the complete settings are reset.*

Factory password setting for login for both admin and owner is: elkoep

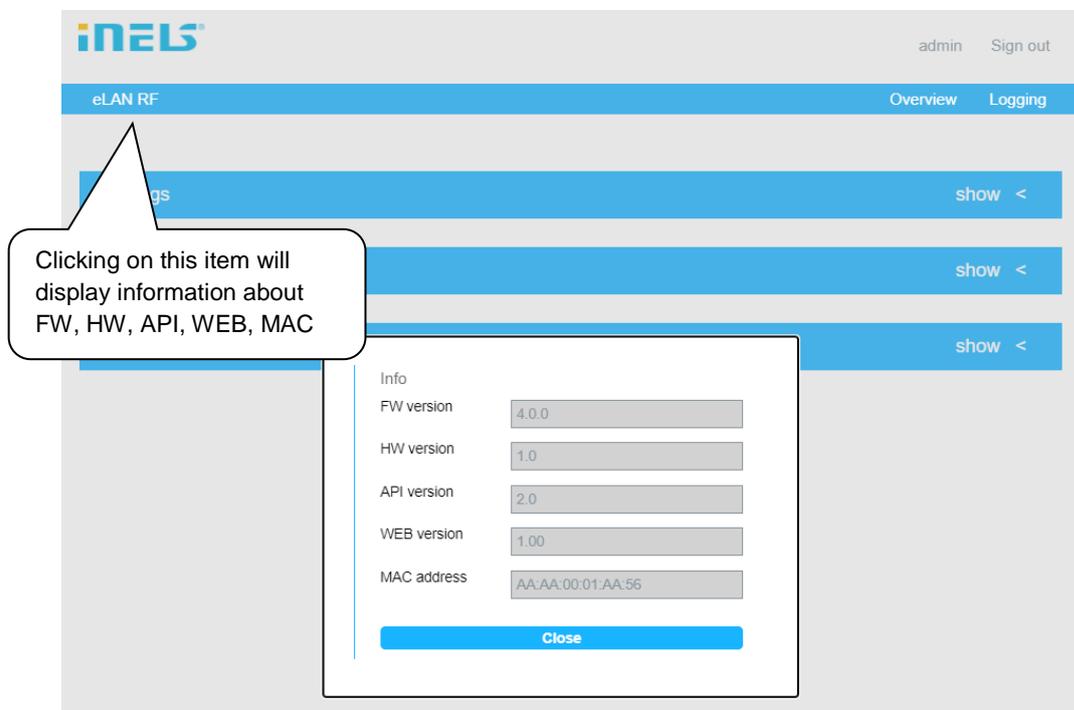
### 3. Settings

After logging in, a window with the following signpost will appear in your browser:

- Taskbar – to display information about eLAN-RF-103, logging function and logout
  - eLAN RF button displays information about FW, HW, API, WEB, MAC
  - Overview – opens a screen with a detailed description of the entire configuration (for service purposes)
  - Logging – opens the logging settings menu (for service purposes)
- Settings – use for basic eLAN-RF-103 settings
- Configuration backup – used to create/restore a backup
- FW update – used to load firmware



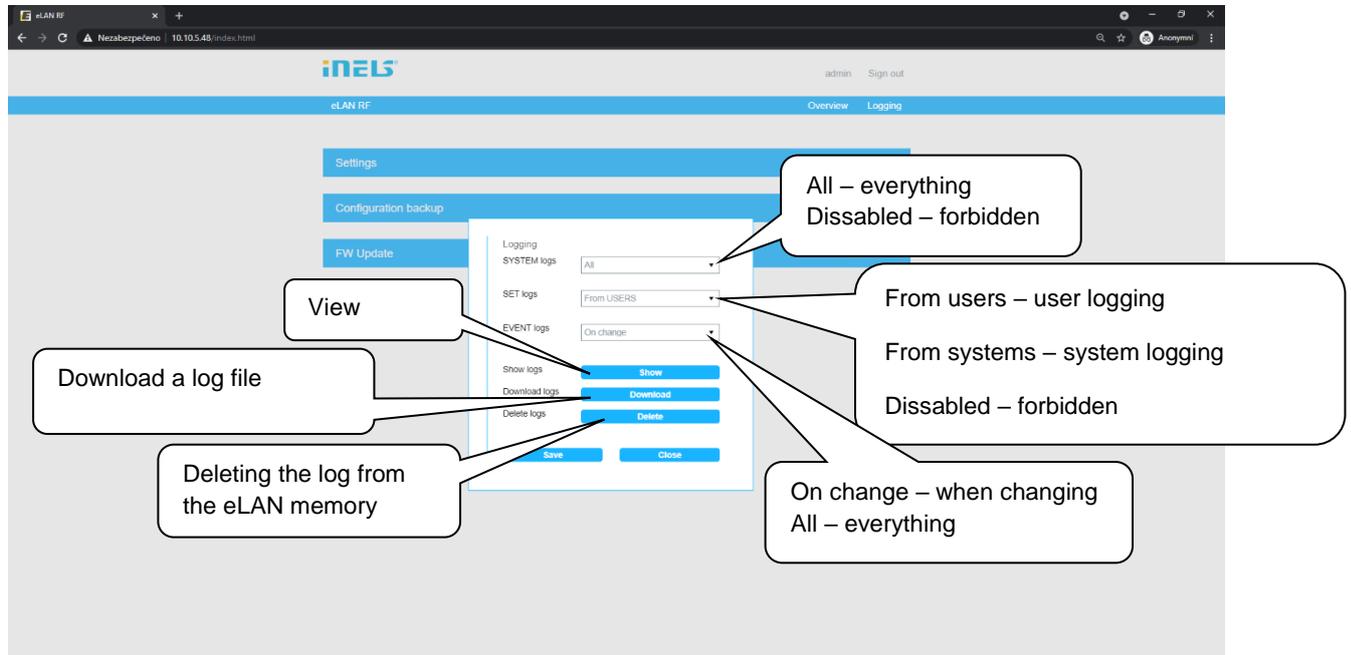
*Hlavní obrazovka*



*eLAN RF information*

### 3.0.1 Logging

This part of the settings is used primarily for service purposes. After enabling logging, the eLAN-RF-103 will start saving the set records of events that happened on the device.

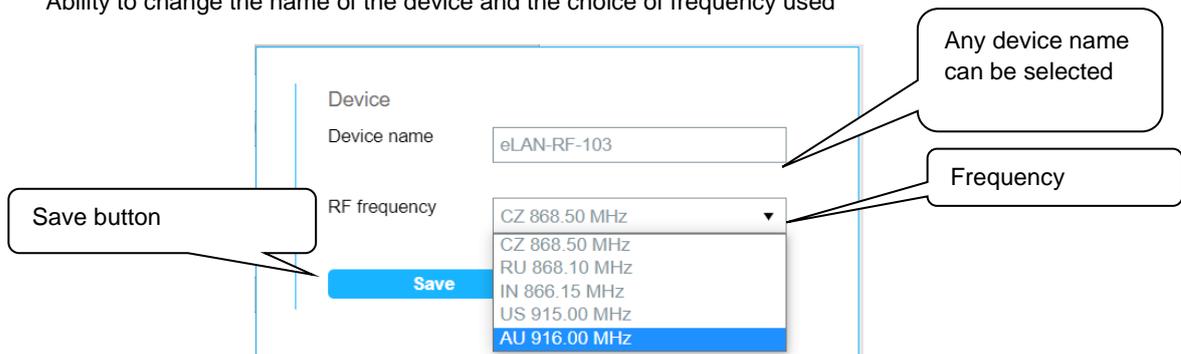


Logging

## 3.1 Settings

### 3.1.1 Device

Ability to change the name of the device and the choice of frequency used



### 3.1.2 Account

Ability to change login details.

Account

Name

Password

Password (Confirm)

Change your account name

Change your password

### 3.1.3 Network settings

It is used to configure network settings, which you can change according to your network.

Network settings

IP settings  DHCP client  Static IP

IP address

Mask

Gateway

Static or DHCP network settings

IP address eLAN-RF-103

Your network mask

Default gateway for your network

Date and time - automatic reading of time from SNTP server is set by default. Another option is to set the time manually.

SNTP IP address port – settings for own SNTP server.

Time zone – time zone settings.

Daylight Saving Time – Setting the change of summer and winter time. Set by default for automatic change.

**Date and time**

Date and time settings  SNTP  Manual

Time: 9:15:57

Date: 8.11.2021

SNTP IP address: 195.113.144.201

SNTP port: 123

Time zone: UTC + 01:00

Daylight Saving Time:  (+1h daylight saving time)  (automatic change)

Buttons: Save, Cancel

Callouts:

- Automatic/manual time setting (points to SNTP/Manual radio buttons)
- IP SNTP server (points to SNTP IP address field)
- Set a time zone (points to Time zone dropdown)
- Settings for changing daylight saving and winter time (points to Daylight Saving Time options)

### 3.1.4 Cloud settings

Setting up a cloud connection (done using the app)

Here it is possible to enable and change the IP cloud connection, set by default to elko.cloud

**Cloud settings**

Enabled:

IP address: 188.166.194.238

Port: 7777

Buttons: Save, Cancel

Callouts:

- Button to enable cloud connection (points to Enabled checkbox)
- IP address and cloud port server (points to IP address and Port fields)

The screenshot shows the 'Settings' page for the eLAN-RF-103 device. The page is organized into several sections, each with an 'Edit' button. Callouts provide additional information for various fields:

- Settings Header:** A blue bar at the top contains the title 'Settings' and a 'hide' button with a dropdown arrow.
- Device Section:** Includes 'Device name' (eLAN-RF-103) and 'RF frequency' (CZ 868.50 MHz). Callouts point to the 'hide' button ('Hide settings menu'), the device name ('Title eLAN 103'), and the frequency ('Set frequency').
- Account Section:** Includes 'Name' (admin) and 'Access level' (ADMIN). A callout points to the 'Access level' ('Logged-in account - level of').
- Network settings Section:** Includes 'IP' (192.168.1.2), 'Mask' (255.255.255.0), and 'Gateway' (192.168.1.1). Callouts point to the IP ('IP address eLAN-RF-103'), the mask ('Your network mask'), and the gateway ('Default gateway for your network').
- Date & Time Section:** Includes 'Date' (8.11.2021) and 'Time' (8:46:40). A callout points to the date field ('Date and time').
- Cloud settings Section:** Includes 'Status' (CONNECTED). A callout points to the status ('Cloud connection status').
- Reboot Section:** Includes a 'Reboot' button. A callout points to it ('Restart eLANu').
- Configuration backup Section:** A blue bar at the bottom contains 'Configuration backup' and a 'show' button with a left arrow.

Settings

### 3.2 Configuration backup

Use this section of the settings to back up and restore the configuration of the eLAN-RF-103

The screenshot shows the 'Configuration backup' settings page. It includes a 'hide v' button in the top right. The main content area has a left sidebar with options: 'Create backup', 'Download backup', 'Restore backup', 'Restore backup from memory', and 'Restore backup from file'. The main area contains buttons for 'Create', 'Download', 'Restore', and 'Upload'. A file selection dropdown is labeled 'Vybrat soubor' with the text 'Soubor nevybrán' below it. A progress bar is shown with the status 'Ready'. Callouts point to the 'Create' button ('Creating a backup to be stored in eLAN memory'), the 'Download' button ('Download a backup file to your computer'), the 'Restore' button ('Upload a backup from memory eLAN'), the 'Upload' button ('Upload a backup from a file'), and the file selection dropdown ('Choosing a backup stored on your PC').

*Back up your settings*

### 3.3 Firmware Update

Update FW eLAN-RF-103:

1. From the website <http://www.elkoep.cz/produkty/inels-rf-control/rf-control-systemove-prvky/> download the latest version FW eLAN-RF-103.
2. Click the **Select File** button and click to select the downloaded file (the file for the FW update must always contain the extension \*.efw). Confirming the Update button will automatically start updating the FW in your eLAN-RF-103.

*Note: Do not turn off or use the Reset button during the FW update. The eLAN-RF-103 will automatically restart when the FW update is complete. After the firmware update, all your settings will be preserved (IP address, login data, visualization panel as with the FW version before the update).*

The screenshot shows the 'FW Update' settings page. It includes a 'hide v' button in the top right. The main content area has a left sidebar with the option 'Update from file'. The main area contains a file selection dropdown labeled 'Vybrat soubor' with the text 'Soubor nevybrán' below it, and an 'Update' button. A progress bar is shown with the status 'Ready'. A callout points to the 'Update' button with the text 'Upload firmware from a file – available on www.elkoep.cz'.

*FW Update*