eLAN-RF-003, eLAN-RF-Wi-003 | Smart RF box

eLAN-RF-003 eLAN-RF-Wi-003

Technical parameters	eLAN-RF-003	eLAN-RF-Wi-003
Interface RF Control		
Communication protocol:	RF Touch Compatible	
Broadcasting frequency	866 MHz, 868 MHz, 916 MHz	
Signal transfer method:	two-way addressed message	
Output for antenna:	SMA connector*	
Antenna RF:	1 dB (part of supply)	
Indications RF communications:	1 x red RF status LED	1 x green RF status LED
Range in free space:	up to 100 m	
Interface Ethernet		
ETH operating status indicator:	green LED	
ETH communication indicator:	yellow LED	
Communications interface:	100 Mbps (RJ45)	
Preset IP address:	192.168.1.1	
Interface Wi-Fi		
Standard:	x	IEEE 802.11 b/g/n / 2.4 GHz
Wi-Fi Security:	x	WEP, WPA-PSK, WPA2-PSK
Frequency range Wi-Fi:	x	R-SMA
Antenna Wi-Fi:	x	1 dB (part of suply)
Indications Wi-Fi communication:	x	1 x red Wi-Fi status LED
Range:	x	in to 200 m
Supply voltage/current:	10-27 V DC / 200 mA SELV	10-27 V DC / 300 mA SELV
Power:	adapter with connector Jack Ø 2.1 mm (part of supply) or connector USB-B	
Supply voltage indication:	green LED POWER	
Button RESET:	settings to their defaults	
Power source:	230 VAC / 12 V DC part of supply of device	
Operating conditions		
Operating temperature:	-20 to +50 °C	
Storage temperature:	-25 to +70 °C	
Protection:	IP20	
Contamination degree:	2	
Working position:	any	
Dimensions:	90 x 52 x 65 mm	
Weight:	136 g	145 g

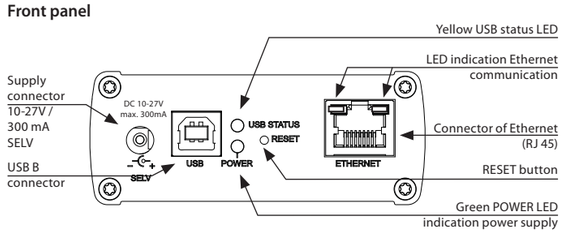
* Max Tightening Torque for antenna connector is 0.56 Nm.

- The smart RF box enables you to control your electrical installation by smartphone, tablet or SMART TV.
- It transmits and receives commands of up to 40 units, and it processes set programs for automatic control, (you can gradually expand installation from 1 unit iNELS RF Control).
- Thanks to bi-directional communication, it visualizes the current status of individual units.
- The smart RF box eLAN-RF-003 is connected by network cable LAN to the home network (router) and communicates with your smart phone.
- The RF eLAN-RF-Wi-003 RF smart box creates its own Wi-Fi network. Once a smartphone is connected to this network, you can communicate with other devices.
- The intuitive application environment offers central control from one place.
- Function of application iHC-MAIRF / iHC-MIIRF:
  - control of hot water or electric underfloor heating
  - measuring temperature by wireless sensors
  - switching appliances (garage door, blinds, fan, sprinklers, sockets, etc.)
  - dimming lights (LED, energy-saving, halogen or classic lamps)
  - time switching (delayed switching off of light when leaving room)
  - video camera integration
  - light scenes (make multiple commands at once with a single press).
- If you don't have a fixed IP address, the Smart RF box will obtain it from DHCP server automatically.
- Power is supplied to the Smart RF box via adapter 10-27 V DC (included in the supply) or PoE by power source (router) 24 V DC.
- To amplify the signal, two eLAN-RF units can be connected via a LAN cable. These units cannot be operated independently.
- Option of setting via web interface or directly in the application iHC-MAIRF (Android) / iHC-MIIRF (iPhone).
- The package includes an internal antenna AN-I , in case the Smart RF box is located in a metal switchboard, you can use the external antenna AN-E for better signal reception.
- Range up to 100 m (in open space), if the signal is insufficient between the Smart RF box and unit, use the signal repeater RFRP-20 or protocol component RFIO^2 that support this feature.
- Communication frequency with bidirectional protocol iNELS RF Control.

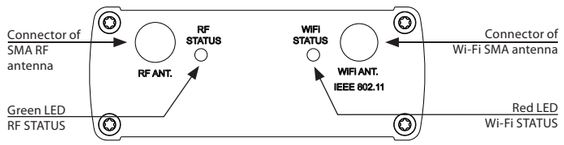
Device description

eLAN-RF-Wi-003

Front panel



Back panel



Control apps

Smartphones

iHC-MAIRF iHC-MIIRF

- Control application for smart phones with Android operating system - iHC-MAIRF and pfor smart phones iPhone - iHC-MIIRF
- The application iHC-MAIRF / iHC-MIIRF allows you to control your home easily by smartphone.
- The user-friendly and intuitive application environment offers central control from one place.
- iHC-MAIRF / iHC-MIIRF enables control of RF units by smart phone via a smart RF box, which is connected to the home Internet network.
- The smart RF box controls up to 40 units of iNELS RF Control, (you can gradually expand control from 1 unit of iNELS RF Control).
- If you don't have a permanently set IP address, the application supports its automatic obtaining from the DHCP server.
- Functions of the application iHC-MAIRF / iHC-MIIRF:
  - regulation of hot water or electric underfloor heating (setting a weekly program)
  - measuring temperature (e.g. by wireless sensors)
  - switching appliances (garage door, blinds, fans, sprinklers, sockets, etc.)
  - dimming lights (LED, energy-saving, halogen lamps or classic light bulbs)
  - time switching (delayed switching off of light when leaving room)
  - integration of video cameras
  - light scenes (one press to perform multiple commands simultaneously)
  - remote control (switch on heating before returning from vacation).
- The application iHC-MAIRF supports Android versions from 2.3 in your smartphone.

Smart TV

- RF Smart box (eLAN-RF ...) allows remote devices to control a SMART TV.
- Operation with conventional control of TV.
- Compatible with every Smart TV, which has an integrated web browser.
- In the Web browser you enter the IP address of the smart RF box.
- Feedback on the switching component is indicated by green colour in the icon.
- Functionality:
  - Switching ON / OFF, automatic timing,
  - Dimming ON / OFF, smooth start / stop, change colour,
  - Scenes
  - Form of heating temperature indication (to make changes directly in the smart phone application)
  - Camera (possibility to stream live images if it is supported by a Web browser on the SMART TV).
- Form control is free and is not licensed.

Smart watch Samsung GEAR S2 / S3

TIZEN iHC-WTRF

- Applications to control appliances via smart watches Samsung Gear S2 / S3.
- Smart watches are associated with the controlled appliances through RF smart box eLAN-RF.
- Functionality:
  - Switching appliances, sockets,
  - Automatic timing,
  - Dimming the lights, adjust the colour,
  - Control garage doors, gates, gates and shutters,
  - Features scenes for group commands.
- Intuitive and easy to control in many combinations, touching the display and moving wheels on Samsung Gear S2 / S3.
- The setting is done by applying iNELS Home Control iHC-MAIRF directly or via a web interface RF smart box eLAN-RF.
- It is not necessary to carry a smart phone to control, the watch functions independently.