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



eLAN-RF-003

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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, 922 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:		
Interface Ethernet	up to 100 m	
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:	х	IEEE 802.11 b/g/n / 2.4 GHz
Wi-Fi Security:	х	WEP, WPA-PSK, WPA2-PSK
Frequency range Wi-Fi:	х	R-SMA
Antenna Wi-Fi:	х	1 dB (part of suply)
Indications Wi-Fi communication:	х	1 x red Wi-Fi status LED
Range:	х	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 $\ extsf{Ø}$ 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 smart RF box eLAN-RF-Wi-003 is connected to the home network (router) via the Wi-Fi network and communicates with your smart phone. Connection to the home network is also possible via network LAN cable.
- 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
- 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.
- By connecting two Smart RF boxes by LAN cable, you avoid the problem of lack of signal range.
- 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.
- Communication frequency with bidirectional protocol iNELS RF Control.

Device description

eLAN-RF-Wi-003





Back panel



Control apps

Smartphones



Smart TV



Smart watch Samsung GEAR S2 / S3



TIZEN iHC-WTRF

- 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.
- RF Smart box (eLAN-RF ...) allows remote devices to control a SMART TV.
- Operation with conventional control of TV.
- ${\scriptstyle \bullet}$ 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.
- The environment is an intuitive interface where you can insert photos in the background and the locations of the icons to get an overview of the controlled devices in an area.
- 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.
- 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.