HEATING WITH SAVINGS

WIRELESS KIT TO CONTROL HEATING VIA RF TOUCH UNIT

SAVING ENERGY

QUICK INSTALLATION

5 YEARS GUARANTEE

PERFECT TEMPERATURE IN EACH ROOM WITHOUT THE UNNECESSARY EXPENSE.

iNELS®
smart home solutions

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EVEN YOUR HOME CAN HEAT „**ECONOMICALLY**"!

Would you like some help?

TECHNICAL SUPPORT

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HEATING WITH SAVINGS

HEATING CONTROL VIA WIRELESS TOUCH UNIT

Includes 3 wireless thermovalves that are installed instead the standard radiator valves. They measures the room temperature and send it to the RF Touch control unit. RF TOUCH compares it with the temperature set along with time schedule and sends a command to open or close the valve. You can set heating programs in the weekly schedule, separately for each circuit (room).

This kit will open up new horizons for home automation. It can be extended any time you need and according to your wishes. Depends on you if you want to find something new and upgrade your current installation.

Thank you for buying the kit HEATING WITH SAVINGS.
Another kits and additional units can be found on the last pages of the manual or at our webpage:

www.inels.com/kits

USER´S MANUAL CONTENT

LEGEND:

● **RF (Radio Frequency)** – a radio frequency signal for communication of wireless devices. It works at 868 MHz frequency. The signal goes through buildings which affect the signal.

● **Unit, Wireless unit** – it is a receiver or unit, which receives RF commands and controls connected devices. It can be e.g. bulbs, switching socket, thermovalve etc.

KIT CONTENT

WIRELESS THERMOVALVE
RFATV-1

3×

Wireless thermovalve measures the room temperature and sends it to the Smart RF box.

- according to set temperature and time in your phone it opens or closes the radiator valve
- battery supply allows quick and easy installation
- **accessories:** 2x AA batteries (included in the package), adapters Danfoss RAV, RA, RAVL
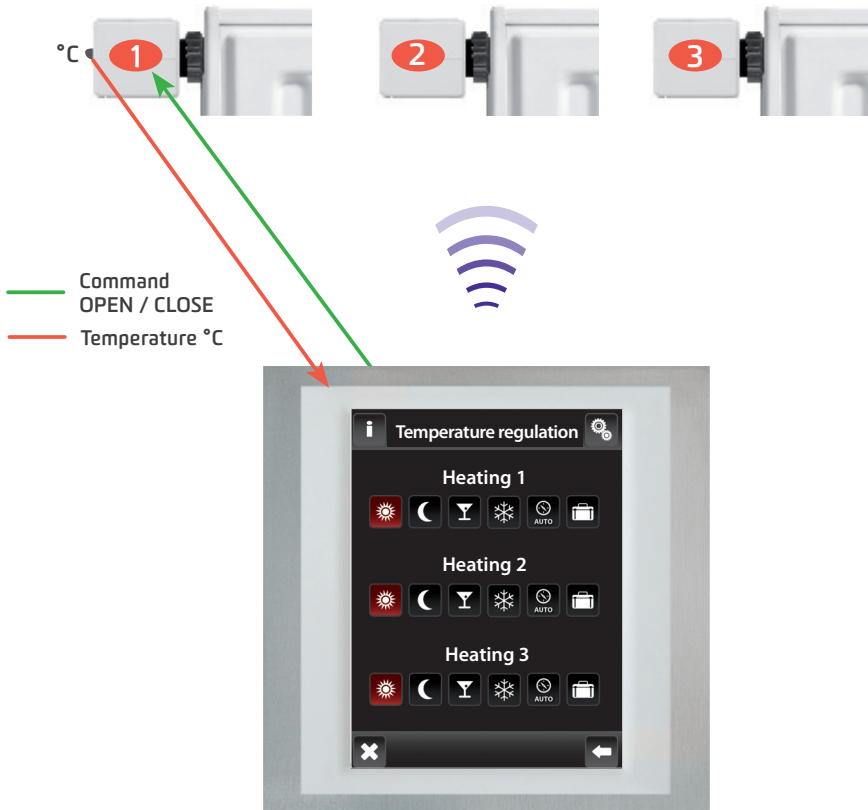
WIRELESS TOUCH UNIT
RF TOUCH

1×

The unit offers a complete control over heating, switching appliances and devices, lights or blinds, shutters control or gateway.

- control and display of temperature, weekly schedule option
- possibility to add up to 40 units of the iNELS RF Control system
- designed for wall mounting or into an installation box
- **parameters:** Touch 3,5" color display, dimension 94 × 94 mm, power supply AC 230V (clips) or the plug-in adapter (included in the package)

HOW DOES IT WORK?

- Wireless thermovalve measures the room temperature and based on the value set in wireless touch unit it sends a command to open/close a thermovalve.

Each wireless unit is numbered 1,2,3, it corresponds to the name in Wireless touch unit (Heating 1, Heating 2, Heating 3). It is possible to connect up to 30 Wireless thermovalves.

Command
OPEN / CLOSE

Temperature °C

WIRELESS TOUCH UNIT
RF TOUCH

THE RANGE OF RF SIGNAL

The range of RF signal is up to **200 m** in the free open air.

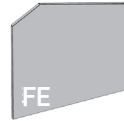## TRANSMISSION OF RADIOFREQUENCY SIGNALS IN VARIOUS MATERIALS

| brick walls	wooden structures with plaster boards	reinforced concrete	metal partitions	common glass
60 - 90 %	**80 - 95 %**	**20 - 60 %**	**0 - 10 %**	**80 - 90 %**

INSTALLING A WIRELESS TOUCH UNIT

- Place a wireless touch unit in the best possible position from Wireless thermovalves.
- Optimal placement of Wireless touch unit is in the middle of space between each wireless thermovalve.
- Please keep in mind, that the number of walls, ceilings reduces the signal strength and thus limits the range of wireless thermovalves.
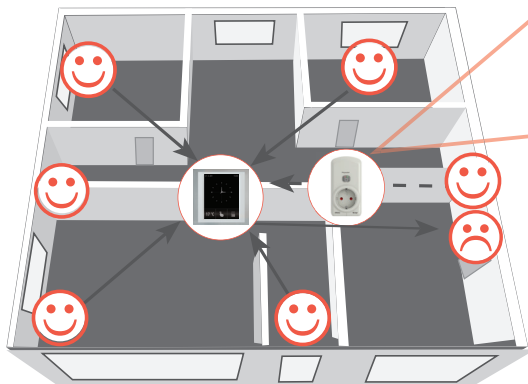
REPEATER
to extend the range
Order code: **4510**

In case of insufficient connection between wireless thermovalve, you have the following possibilities:

- **RELOCATE WIRELESS THERMOVALVES**
- **USE REPEATER** (plug-in signal repeater) - install between wireless touch unit and wireless thermovalve which is out of the range.

INSTALLING A WIRELESS THERMOVALVE

● Power supply

1. Open battery cover
2. Insert batteries (keep in mind the polarity)
3. Close the cover -> your RFATV-1 is ready to install

2.

1.

● Mounting

Wireless thermovalve can be quickly and easily mounted on all common valves.
*It can be installed without grime and water spots because the heating circuit is not interrupted.*

1. Use an appropriate adapter, if required, and push it into the valve.
2. Screw the connector (connecting ring) on the valve or the adapter.
3. Put RFATV-1 into the connector (connecting ring) until it noticeably clicks into place.
*The wireless thermovalve must be installed evenly to the connecting ring.*

Valve   Adapter   Connecting   Wireless
                                ring   thermovalve
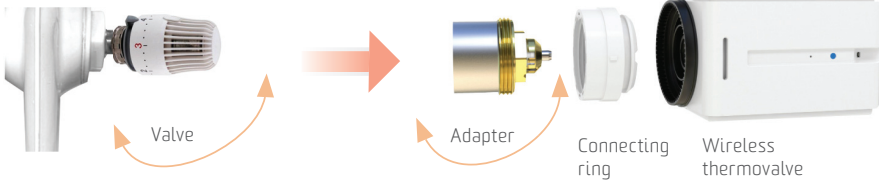
● Auto calibration of wireless thermovalve

After placing a valve to vent and inserting batteries, it is necessary to calibrate the valve on vent. It is can be done by pressing „blue" button directly on a thermovalve (using the key). During this operation please do not manipulate with the thermo valve. Auto calibration is finished by a blink of green LED diode on thermovalve.

Blue button

Green LED
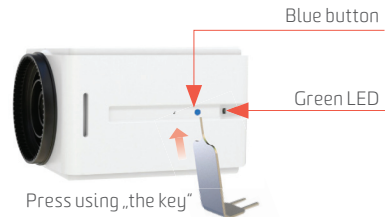
Press using „the key"

● Dismounting

Wireless thermo-valve can be quickly and easily dismounted using the second side of the key.
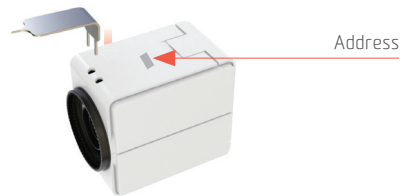
Address

TYPE OF VALVE:	TYPE OF ADAPTER
Danfoss RAV: (The attached pin should be mounted on the valve tappet.)	

TYPE OF VALVE:	TYPE OF ADAPTER
Danfoss RA:	

TYPE OF VALVE:	TYPE OF ADAPTER
Danfoss RAVL:	

INSTALLING A WIRELESS TOUCH UNIT

• Surface mounting

The spacing between screws on the box

N

L
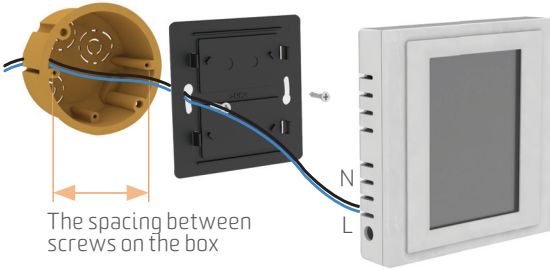
• Power supply via terminals

AC 100 - 230V / 50 - 60 Hz

• Surface mounting by sticking

• Power supply through adapter
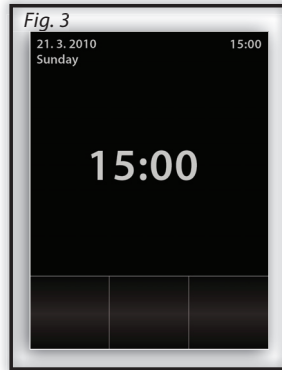(adapter is included in the package)

THE DEFAULT SCREEN

1. Setting the clock

Touch the top right corner to select the type of clock to display on the screen. An ANALOG (Fig. 2) or DIGITAL (Fig. 3) display.
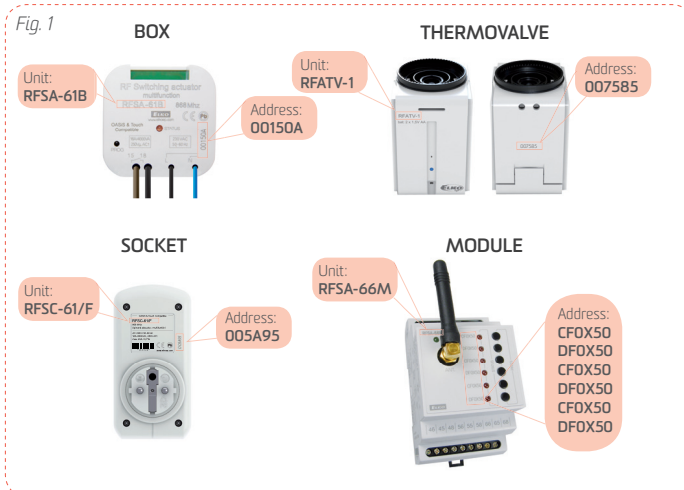

ANALOG

DIGITAL

LOCATION OF ADDRESS AND TYPE OF EACH UNITS

Fig. 1

BOX

Unit:
RFSA-61B

Address:
00150A

THERMOVALVE

Unit:
RFATV-1

Address:
007585

SOCKET

Unit:
RFSC-61/F

Address:
005A95

MODULE

Unit:
RFSA-66M

Address:
CF0X50
DF0X50
CF0X50
DF0X50
CF0X50
DF0X50

SETTINGS

1. Date and time

Touch the icon 🎛 in the upper-right corner of the screen and enter a password (default settings - 1111).

Fig. 4

Fig. 5

Fig. 6

- **DATE AND TIME**
Using the the arrow keys ⬆ / ⬇ firstly set the date and then click on „Setup time".

- **AUTOMATIC SUMMER/ WINTER CHANGEOVER**
tick automatic changeover to active the summer / winter time changeover (GTM + 01:00) Fig. 8.

- **THE TIME FORMAT SETTINGS**
Tick this box to activate automatic time settings (12 h / 24 h mode); To save settings press the button **OK**.

Fig. 7

Fig. 8

2. Language settings

The choice and settings of required language - see Fig. 10. To save settings press the button **OK**.

Fig. 9

Fig. 10

HEATING MODE

The menu Temperature regulation (Fig. 1) is used to control and set the heating mode. Touch on Temperature regulation 🔥 and then you will see the list of Heating Circuits (Fig. 2). Wireless thermovalves are preset in Wireless touch unit (Heating 1, Heating 2, Heating 3). It corresponds to the number 1,2,3 marked on Wireless thermovalves.

☀ **Normal mode**
🌙 **Sleep mode** } These modes offer you a preset temperature which can be amended for individual Heating circuit according to your requirements.
Y **Party mode**

❄ **Anti-frost mode** is used to keep the minimum target temperature in the range 5 - 15°C.

🕓 **The heating program** is used to set the heating mode for the entire week.

🧳 **Holiday mode** is used for temporary interruption of heating program or another mode from Temperature Regulation.

To activate the mode for individual Heating circuit it is necessary to click on the individual Heating modes (highlighted in red).
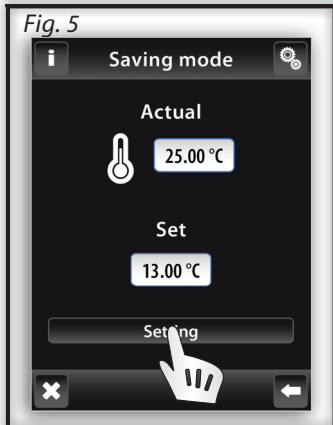

Fig. 1

Fig. 2

TEMPERATURE ADJUSTMENT

To change the temperature in the heating circuit, click the button Settings ⚙ (Fig. 3) and then click on the Heating mode that you want to change (Fig. 4).

The current temperature and the set temperature will be displayed next to the icon 🌡 on the display. You can adjust the temperature by touch on Settings (Fig.5).

Using the arrow keys ⬆ / ⬇ you can change the temperature to the desired one (long press on the key arrow leads to faster shifts between figures). To save the temperature, press button **OK** (Fig.6).

Fig. 3

i Temperature regulation ⚙

Heating 1
☀ ☾ ⍦ ❄ ⊘AUTO 💼

Heating 2
☀ ☾ ⍦ ❄ ⊘AUTO 💼

Heating 3
☀ ☾ ⍦ ❄ ⊘AUTO 💼

✖ ⬅

Fig. 4

i Temperature regulation ⚙

Heating 1
☀ ☾ ⍦ ❄ ⊘AUTO 💼

ing 2
☀ ☾ ⍦ ❄ ⊘AUTO 💼

Heating 3
☀ ☾ ⍦ ❄ ⊘AUTO 💼

✖ ⬅

Fig. 5

i Saving mode ⚙

Actual
🌡 25.00 °C

Set
13.00 °C

Setting

✖ ⬅

Fig. 6

i Saving mode ⚙

Set temperature
13.00 °C

🌡 21.00 °C ⬆ ⬇

✖ OK ⬅

TIME PROGRAM

Click the Settings 🔧 and then click on 🕐 for the chosen Heating circuit (Fig.1, Fig.2). You can change a time by touching on the time interval (hours/minuts). Using the arrow keys ⬆ / ⬇ you will set the ON time and OFF time. Using the arrow keys next to the icon 🌡 you will adjust the target temperature.

Note: You can create up to 5 heating programs for one day. But programs must not overlap in time (should not have overlapping time ranges) - (Fig.5). By long press of the arrow key you can switch back and forth between the figures more quickly.

By touching on the individual day (Mo-Su) you will activate Heating program for the chosen day (Fig.5, Fig.6). ✅ - heating ON, ❌ - heating OFF.

To confirm the set program click the OK button. In case that you want to set another Heating program, please continue programming.

After clicking the Daily overview (Fig.4), you will see all set Heating programs for each day. After clicking on individual days (PO-SU), there will be a list of individual programs. Using these arrows 🔄 you can change time of your Heating program / Set temperature (Fig. 5, Fig. 6). Use this button 🗑 to delete the chosen Heating program. Click on the Weekly overview (Fig.7) to see Weekly overview of heating programs for each heating circuit. Use button 🗑 to delete the whole Weekly program (Fig.8).

Fig. 1 — Fig. 2 — Fig. 3 — Fig. 4 — Fig. 5 — Fig. 6 — Fig. 7 — Fig. 8
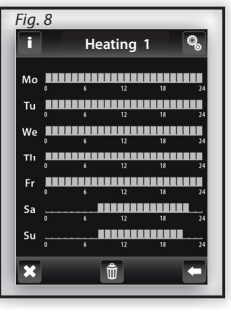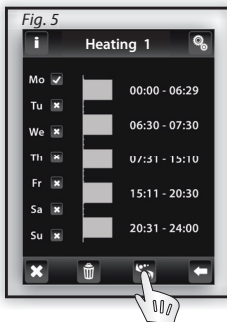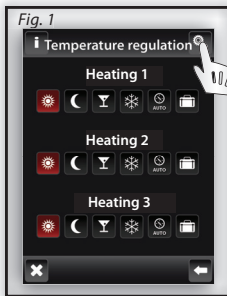
ADDITIONAL SETTINGS

1. Holiday mode

Holiday mode is used for temporary interruption of the heating program.

Click on the button 🔧 and then on 🗓 for the chosen Heating circuit (Fig. 2). To start (switch on) the Holiday mode please insert the following information: date, month and year and then press the button **OK** (Fig. 3). Then the following screen will be displayed: Switch OFF to set the termination of the Holiday mode. Click on the **OK** button.

To display the set Holiday modes, click on the „Overview" (Fig.4).

Note: You can assign up to 5 time intervals in the Holiday mode. But programs should not have overlapping time ranges. Saving mode 🌙 is active during the Holiday mode.

To delete the individual Holiday mode, click on the bar belonging to the program (Fig.5), then press the icon Trash 🗑 in the lower part of the screen. If you do not mark any holiday mode, then by clicking on the icon Trash 🗑 , all Holiday modes will be deleted.

Fig.1 / Fig. 2 / Fig. 3 / Fig. 4

Fig. 5
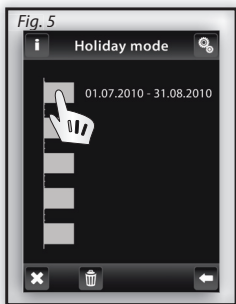
	THE PRECEDENCE OF HEATING MODES		
1	❄ **ANTI-FROST MODE**		
2	🧳 **HOLIDAY MODE**		
3	🕐 **HEATING PROGRAM**		
4	🌙 **SAVING MODE**	☀ **NORMAL MODE**	⧨ **PARTY MODE**

Note: The set heating mode remains until the next change in your Heating program.

ADDITIONAL SETTINGS

2. Open window detection

The function of Open window detection (Fig.4) monitors the sharp temperature drop and close Wireless thermovalve to a preset time. You can choose 3 sensitivity levels of open window detection or switch the function off (Default Switch OFF).

Low sensitivity – temperature drop by over 1,2°C/min.

Medium sensitivity – temperature drop by over 0,8°C/min.

High sensitivity – temperature drop by over 0,4°C/min.

To set open window detection press the button Settings ⚙ (Fig. 1). Then click on the Heating mode (for the chosen Heating circuit) that will be adjusted (Fig. 2).

Window detection (Fig. 5)   ● a green dot indicates the current heating interruption for a specified period of inactivity

● a red dot indicates that function of window detection is not active

The period of inactivity - non-operating (Fig. 6) – used to set the period of inactivity after open window detection.

Status (Fig. 5) – Status 0 indicates that Wireless thermovalve is functioning correctly.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6
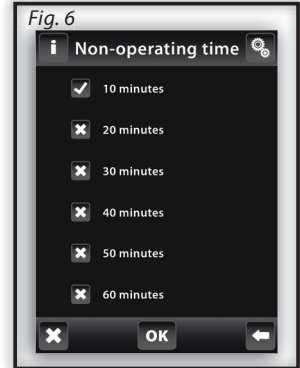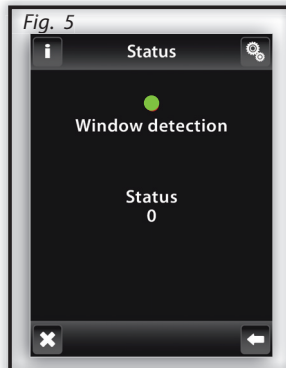
ADDITIONAL SETTINGS

3. Edit title of heating circuit

Click on the „Settings" and then on the „Menu" (create a title) to edit the title of the heating circuit (Fig. 2).

By pressing the icon ➖ the menu will be displayed, then select the section whose title you want to change (Fig. 4) – in this case Temperature regulation. Mark the Heating circuit by touch (Fig. 5) and then edit the text by using keyboard.

Press the **OK** button to save (Fig. 6).

Fig. 1

i	Main menu	⚙
🌡	Temperature regulation	
✋	Switching	
💡	Dimming	
▤	Blinds	
🖱	Detectors	
🔄	Quick control	
✖		←

Fig. 2

i	Setting	⚙
	Language	
	Date and time	
	Menu (create menu)	
	Programming	
	Display	
	Others	
✖		←

Fig. 3

i	Menu	⚙
➕	Add	
➖	Edit	
➖	Remove	
✖		←

Fig. 4

i	Edit	⚙
	Temperature regulation	
	Switching	
	Dimming	
	Blinds	
	Detectors	
	Quick control	
✖		←

Fig. 5

i	Edit	⚙
	Heating 1	
⬆	Heating 2	
⬇	Heating 3	
✖		←

Fig. 6

i	Edit	⚙
	Heating 1	
.	abc	def
ghi	jkl	mno
pqrs	tuv	wxyz
A/a	_	a/1
✖	OK c	←

ADDITIONAL SETTINGS

4. Others

Click on the Setting / Others and other settings of Wireless touch unit will displayed.

● **Lock the keyboard:** it helps to prevent accidental or unwanted control Wireless touch unit (Fig. 3). Double tap on the lock icon to unlock default screen (Fig. 4).

● **Display menu:** you can specify which items will be shown in the main menu (e.g. just Dimming, Switching and Detectors - Fig. 5-6). The icon ✖ means that these items will not be shown in the Main menu.

● **Temperature regulation** (Fig. 8): Celsius and Fahrenheit degrees (°C to °F), heating hysteresis setting: the lower and upper limits of the range 0.5. - 5°C (Fig. 9); the offset setting (to compensate inaccuracies in the temperature measurement) in the range from -5 to +5°C; thermostat: Heating/Cooling.

● **Home screen**: set Favorites panel to your home screen (Fig. 10, 11).

Left = 1. option, middle = 2. option, right = 3. option.

Fig. 1

Fig.2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

pic. 8

pic. 9

pic. 10

pic. 11
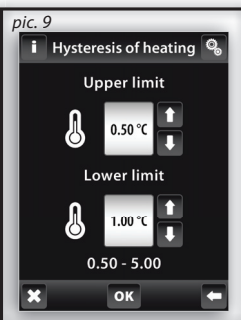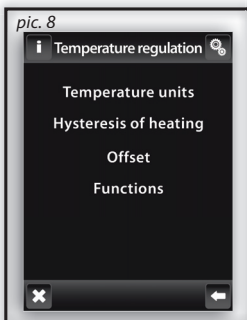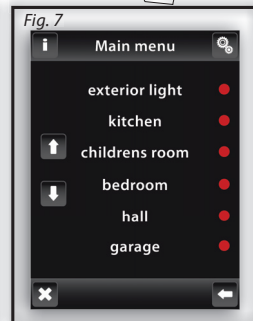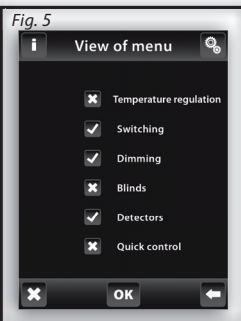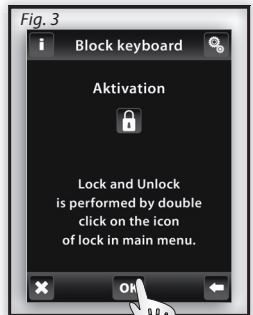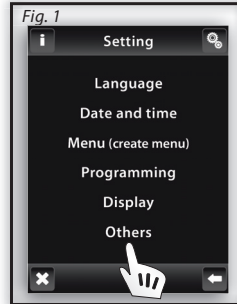
ADDITIONAL SETTINGS

5. Pairing / removing Wireless thermovalves

Used to pair wireless thermovalves with switching unit, that controls the heating source (mainly boiler). It avoids a situation when your boiler is working but all the radiators are closed.

Click on the Settings / Programming / Temperature regulation and select the Assigned receivers (Fig. 2). The list of all assigned Heating circuits will be displayed.

By tapping on the name, the following options will be displayed: Removing / Pairing / Paired with... / Address change (Fig. 6). Using the arrow keys 🐾 you can double-check the name and address of the assigned Wireless thermovalve (Fig. 4,5).

● TO REMOVE

Used to remove Wireless thermovalve (it will not be assigned using short name - Heating 1, Heating 2, Heating 3)

● PAIR WITH ...

Thanks to this option you can combine Wireless thermovalves with switching actuator RFSA-61M, RFSA-61B or RFDAC-71B. The wireless thermovalve measures the current temperature and switching actuator, based on the measured temperature, will switch ON/OFF the heating source. In case that switching actuator is paired with more Wireless thermovalves, so then the boiler will be turned off/on after the desired temperature is recorded by all thermovalves.

● PAIRED WITH ...

The switching unit paired with Wireless thermovalve will be shown. You can remove the paired unit by clicking on the unit name.

● ADRESS CHANGE

Used to change the address of Wireless thermovalve.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6
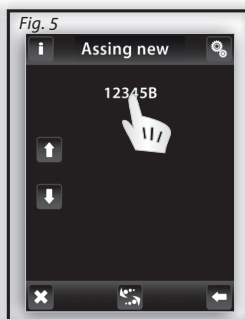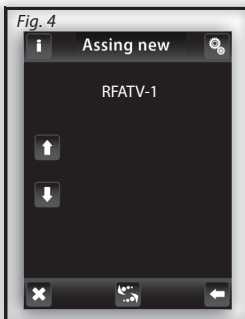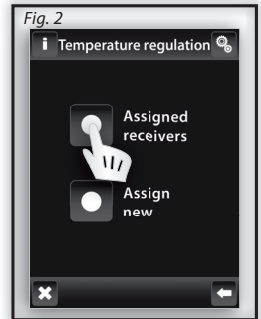
ADDITIONAL SETTINGS

6. Indication of a low-battery condition of Wireless thermovalve

Low battery indicator of Wireless thermovalve appears on the screen (Fig.1). Press the battery to display the unit name. Use arrow keys 🔃 to switch between the name and the address of the unit (Fig. 2-3). More about the address location can be found on the page 10.

Fig. 1

21. 3. 2010   15:00
Sunday

Fig. 2

RF Touch

Heating 1

Fig. 3

RF Touch

12345B
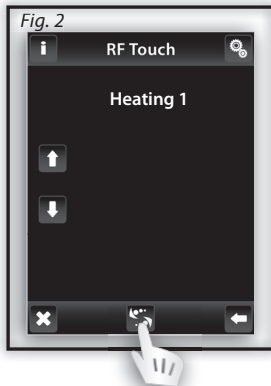
7. The display

Background: select the type of screen background color (black, blue, green, purple).

Screensaver: the desired brightness (25%, 50%, 75%, 100%) will be activated after a set amount of time after the last touch is detected (15s, 30s, 1min, 3min).

Sleep mode: set the time after which RF Touch screen unit goes to sleep after last touch - the screen goes dark (0min, 10min, 15min, 20min)

Calibrating the display: the cross buttons appear in every corner of the screen, required to tap twice. Calibration will be performed. Display calibration can also be started by resetting the unit or disconnecting the power supply from the unit; after reconnecting again, the RF Touch logo will appear on the display - hold the logo for more than 3s to activate calibration – touch logo longer than 3 seconds and calibration will be activated.

Fig. 1

Setting

Language
Date and time
Menu (create menu)
Programming
Display
Others

Fig. 2

Display

Screen
Screen saver
Sleep mode
Display calibration
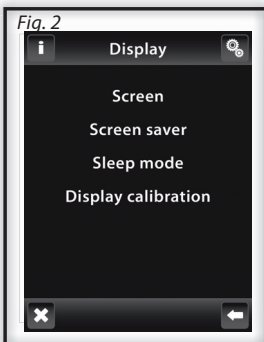
ADDITIONAL SETTINGS

8. Change password

Change Password (PROG.): used to change a password which allows you to go to a programming mode. By entering a password - Fig. 5 (default password 1111), the screen to enter a new password will appear - where you type and confirm a new password. Press **OK** to save the new password (Fig. 6).

Reset the device: To reset a device use the password 1234 (Fig. 7). This password cannot be changed. By inserting a password and confirmation YES (Fig. 8) you will restore the unit to its factory settings.

Fig. 3

Setting

Language
Date and time
Menu (create menu)
Programming
Display
Others

Fig. 4

Others

Change password
Reset device
Block keyboard
View of menu
Temperature regulation
Main screen

Fig. 5

New password

Insert old password

x x x x

1 2 3
4 5 6

OK C

Fig. 6

New password

Insert new password

x x x x

Confirm new password

x x x x

1 2 3
4 5 6

OK C

Fig. 7

Reset zařízení

Insert password

x x x x

1 2 3
4 5 6

OK C

Fig. 8

Reset device

Do you really want to reset the device?

YES NO

ASSIGN OTHER UNITS

1. Menu (create names)

Menu (create names) used to add, rename, edit or remove the names of Wireless units.

The name of wireless units corresponds to the name of controlled appliance (the kitchen light, the living room light, garage, ...). Creating names is important for successful programming of the wireless RF Touch.

Press the ADD icon ✚ (Fig. 2) to show a list of sections (Fig. 3)

●Temperature regulation ● Switching ● Dimming ● Blinds ● Shutters ● Quick control

Choose the section where you want to add new name for your device

and type your own text (max. 20 characters).

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5
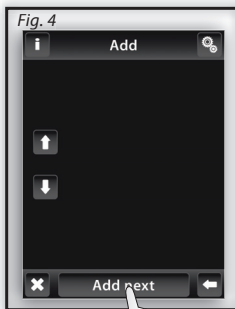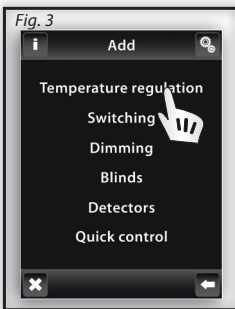
2. Programming / assign a new device

Used to assign the wireless units to menu you created in the previous step (Menu - create names). In the menu „Settings" choose Programming (Fig.1). Units are divided into sections for which they are intended. According to the actuator's type, select a required section - see table below.

RF CONTROL ACTUATOR SECTIONS				
TEMP. REGULATION	SWITCHING	DIMMING	SHUTTERS	DETECTORS
RFSTI-11B/G	RFSA-11B	RFDA-11B	B RFJA-12B/230V	JA-81M / 82M
RFTI-10B INX	RFSA-6X*	RFDA-71B	RFJA-12B/24V DC	JA-80P
RFTI-10B OUTXX	RFDAC-71B	B RFDAC-71B		
RFTC-10/G	RFSAI-61B	RFDEL-71B		
RFATV-1	RFUS-11	RFDSC-11		
	RFUS-61	RFDSC-71		
	RFSC-11			
	RFSC-61			

ASSIGN OTHER UNITS

Click on the Add/Assing new (Fig. 3). A list of units from selected section will be shown (Fig. 4). Click and select the actuator which you want to assign to Wireless RF Touch. Enter the address of actuator you want to assign - Fig. 5 (address indicated on the actuator). Confirm with **OK**.

From the menu location, select the name to which the actuator will be assigned (Fig. 6, Fig.7).

Note: Only one name can be assigned to each actuator. When programming, wireless actuator must be connected with the installation.

- **COMMMUNICATION TEST** (Fig. 8)

used to detect and display the current status of the RF signal between the RF Touch and programmed actuator.

Press Start (Fig. 9) to initiate the test, the current status of the signal is displayed in percentage. If it is less than 20 %, please relocate the unit or use Repearer (RFRP-20).

Press Return to Programming to get back to the main menu of programming.

Note: Communication test can not be performed for battery powered devices.

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig. 9
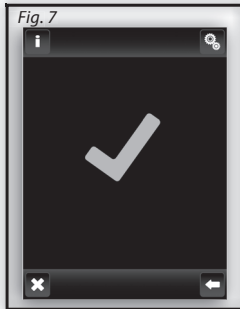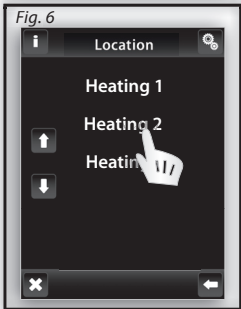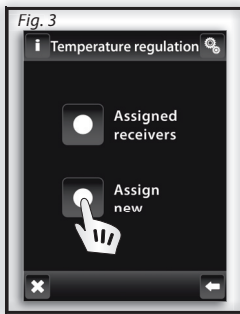
TECHNICAL PARAMETERS

RFATV-1

Supply voltage:	2 x 1,5V batteries
Battery life:	1 year
Control	
Frequency:	868 MHz
RF command from the transmitter:	RF Touch
Range in open space:	up to 100 m
Other data	
Operating temperature:	0 up to +50 °C
Working position:	any
Protection:	IP 40
Dimensions:	65 x 65 x 48 mm
End cap of thermo-valve:	M 30 x 1,5
Piston stroke:	max. 4 mm
Controlling force:	max. 100 N
Relating standards:	EN 60730

Front side

Valve

RFATV-1
bat: 2 x 1,5V AA

Blue button to calibrate

Green LED indicators

Battery cover

Reverse side

Address

RF TOUCH

Display	
Type:	color TFT LCD
Resolution:	320 x 240 pixels / 262 144 colors
Side proportion:	3:4
Visible surface:	52.5 x 70 mm
Backlighting:	active (white LED)
Touch area:	resistive 4-conductor
Diagonal:	3.5˝
Control:	touch
Power supply	
Supply voltage/rated current:	from the rear 100 - 230V AC, from the side 12V DC
Input power:	max. 5W
Power supply terminals:	A1 - A2
Control:	
Range:	100 m
Min. distance RF Touch - Actuator:	1 m
Frequency:	868 MHz
Connection	
Connection:	no-screw push-in terminal box or jack plug (diameter 2.1 mm)
Cross-section of connecting wires:	max. 2.5 mm² / 1.5 mm² with a hollow
Operating conditions	
Operating temperature:	0 up to +50 °C
Storage temperature:	-20 up to +70 °C
Protection:	IP 20
Overvoltage category:	III.
Contamination degree:	2
Operating position:	any
Installation:	anywhere
Dimension:	94 x 94 x 24
Weight:	175 g
Relating standards:	EN 60730-1
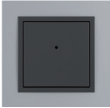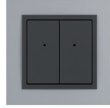
CONTROLLER

PICTURE	DEVICE DESCRIPTION	TYPE/CODE
	WIRELESS WALL CONTROLLER Each of the 2 independent push-buttons can control any number of wireless units (switches, dimmers, shutters). In the design of LOGUS⁹⁰ switch (plastic, glass, metal, wood, stone). Battery-powered 3V/CR2032. Color: white.	**RFWB-20/G** 4037
	WIRELESS WALL CONTROLLER Each of the 4 independent push-buttons can control any number of wireless units (switches, dimmers, shutters). In the design of LOGUS⁹⁰ switch (plastic, glass, metal, wood, stone). Battery-powered 3V/CR2032. Color: white.	**RFWB-40/G** 4060
	4 BUTTON CONTROLLER - KEYCHAIN Wireless controller sends a command to switch ON/OF or dim any wireless device after pushing the button. You can control independently up to 4 devices. By one touch, you can switch ON any number of units at once. Battery-powered 3V/CR2032.	**RF KEY** 4375
	WIRELESS REMOTE CONTROLLER WITH DISPLAY Universal controller with display enables you to comfortably control wireless units, using all their functions. It enables to create rooms, scenes and favorites sections/folders. It is possible to preset up to 40 units. Battery-powered 2xAAA.	**RF PILOT** 4376
	WIRELESS CONTACT CONVERTER Transmitter serves as the contact converter of external device to the commands for wireless units. It contains 2 inputs, that can be switched ON permanently (by push-button or switch). Battery-powered 3V/CR2477, into an installation box.	**RFIM-20B** 4175

SWITCHES

PICTURE	DEVICE DESCRIPTION	TYPE/CODE
	SWITCHING SOCKET Quick solution for wireless control of plug-in appliances, when the switching socket is installed between the existing socket and a plug-in appliance. Output contact 16A/4000W, 6 functions, it is possible to control up to 32 controllers. Dimen.: 60x120x84 mm.	**RFSC-61** French: 4560 Schuko: 4562 British: 4544
	WIRELESS SWITCH UNIT - 6 1-channel and 2-channel switching actuator intended to be mounted into an installation box, that can switch any device. It can control up to 32 controllers. Power supply 230V. RFSA-61B: Switching contact 16A/4000W. RFSA-62B: 2 independent 8A/2x2000W contact.	**RFSA-61B (RFSA-62B)** 4499 (4770)

SWITCHES

PICTURE	DEVICE DESCRIPTION	TYPE/CODE
	WIRELESS SWITCH UNIT - 6 OUTPUTS 6-channel switching actuator intended to be installed in the swich--board contains 6 independent 8A contacts, that can switch any device connected in switchboard. Power supply 230V. The antenna AN-I included in the package can be replaced by external type AN-E what eliminates the influence of metal door of switchoboard.	**RFSA-66M** 4282
	SWITCH UNIT FOR OUTDOOR USE 1-channel switching unit in the box that provides higher protection level. Intended for outdoor installation suited for wet, humid and dusty areas. Output switching contact 12A/3000W, power supply AC 230V, 6 functions. It it possible to control up to 32 controllers. Enclosure IP65, dimension 136x62x34 mm, color: grey.	**RFUS-61** 4526
	SWITCH UNIT FOR SHUTTERS (CONTACTLESS) Used to control shutters, blinds, awnings, garage doors, gates, skylights - all devices that can be controlled in two directions. It can be controlled by up to 32 push-buttons of any controller. Intended to be mounted into an install. box or to the motor housing. Power supply AC 230V, switching capacity for the contact is 8A.	**RFJA-12B** 4682

DIMMERS

PICTURE	DEVICE DESCRIPTION	TYPE/CODE
	DIMMING SOCKET (MULTI-FUNCTION) For dimming of lamps and lighting construction, when the switching socket is installed between the existing socket and the lamp. It allows you to dim incandescent bulbs, halogen lamps, dimmable energy saving bulbs and modern LED lighting sources up to 300 W.	**RFDSC-71** 4594
	UNIVERSAL DIMMER (INBUILT) Wireless multifunction (7 functions) dimmer used to dim incandescent bulbs, halogen lamps, ... The type of lighting source is selected using the rotary switch. Intended to be mounted into an installation box. Power supply AC 230V.	**RFDEL-71B** 4512
	DIMMER FOR COLOURED (RGB) LED STRIPS Dimmer intended to be mouned in a switchboard to control coloured RGB. Strips with max. power 70 W / channel that corresponds to approximately 10 m of RGB strip. Power supply DC 12-24-V, option of color blending mode, control through keychain, RF Pilot or App.	**RFDA-73M/RGB** 4681
	UNIVERSAL DIMMER Wireless multifunction (7 functions) dimmer used to dim incandescent bulbs, halogen lamps, dimmable energy saving bulbs and modern LED lighting sources up to 600W of power. Power supply AC 230V.	**RFDEL-71M** 4897

LIGHTING

PICTURE	DEVICE DESCRIPTION	TYPE/CODE
	COLOURED RGB LED STRIP, 5 METERS Coloured RGB strip, 7.2W/m (30 LED chips / m), length 5 m, width 11mm, outdoor-proof design, also designed for installation on aluminium rails, adhesive tape, it can be shortened by 10 cm, luminous flux of 660 lm/m, control by RFDA-73M dimmer, power supply 12V.	**7,2W, RGB, 30LED/M** 6630
	POWER SUPPLY FOR 5 M RGB STRIP Power supply 230V/12V/60W to power 5m of RGB strip. Intended for outdoor use (IP67), dimension 162,5 x 42,5 x 32 mm.	**DC 12V/5A 60W** 6589
	WIRELESS COLOURED BULB This RGB LED bulb consists of 3 color chips which can mix up any color at different temperatures. Bulb has a built-in receiver and dimmer, so it can be easily replaced for the original bulb. Other functions: colorful scenes, brightness setting etc.	**RF-RGB-LED-550** 4931
	WIRELESS WHITE BULB This bulb comes in both warm and cool white, it has built--In wireless receiver and dimmer, it can easily be placed in any existing base and control by any controller.	**RF-WHITE-LED-675** 4936

TEMPERATURE CONTROL

PICTURE	DEVICE DESCRIPTION	TYPE/CODE
	WIRELESS TEMPERATURE CONTROLLER Digital thermostat in the design of the LOGUS[90] switch (plastic, glass, metal, wood). It measures the room temperature and according to the set heating program (weekly mode) it sends commands to the switching unit (heating device). Battery-powered (2xAA). It is possible to control up to 4 heating circuits.	**RFTC-50/G** RFTC50/G/ BR/BR
	SWITCH UNIT WITH A TEMPERATURE SENSOR Temperature unit in the design of LOGUS[90] switch. It measures the temperature and switch a heating circuit at the same time. Relay contact 8A/2000W, power supply 230V, the possibility to connect an exter. temperature sensor. It is possible to connect up to 30 units.	**RFSTI-11/G** RFSTI-11/G/ BR/BR
	WIRELESS THERMOVALVE Wireless thermovalve measures the room temperature and sends it to the Smart RF box, that compares the temperature records with the set temperature and according to set program it sends a command to open or close the radiator valve.	**RFATV-1** 6307

TEMPERATURE CONTROL

PICTURE	DEVICE DESCRIPTION	TYPE/CODE
	WIRELESS TEMPERATURE SENSOR Internal or external sensor measures the temperature starting from -20 up to 50°C. Intended to be mounted into an installation box, but it can be also placed anywhere. Recommended external sensor - TC/TZ 3-6-12 m. Battery-powered 3V/CR2477.	**RFTI-10B** 3175
	THERMODRIVER Electric thermodrive to be mounted on the radiator valve (including adapter VA80 for valves Heimeier, Oventrop, Schlösser, Herb or Onda (M30 x 1,5)). Power supply: 230 V (closed without power).	**TELVA/230V** 6602

SYSTEM UNITS

PICTURE	DEVICE DESCRIPTION	TYPE/CODE
	WIRELESS TOUCH UNIT - SURFACE MOUNT Used to control up to 40 wireless units. Besides switching, controlling and dimming, it includes thermostats with weekly programming and it also enables to connect detectors. In the size of the switch, with frames in the LOGUS⁹⁰ design intended for surface-mounted installation. Power supply 230V. White color.	**RF TOUCH - W** RFTW-AWH- -BWH-CWH
	SMART RF BOX, SMART WI BOX The mediator between your controller and wireless units controlling lights, heating, shutters, sockets and other appliances. eLAN-RF-003: It is connected to LAN network of your router and it is placed to ensure the visibility to other controlled units. eLAN-WI-003: App for controlling is free to download from GooglePlay or iTunes Store.	**eLAN-RF-003** **(Wi-003)** 5173 (4872)
	IP CAMERA FOR OUTDOOR USE Indoor color camera D-Link DCS-933L/E can be easily connected to LAN through cable or to wireless WiFi network. It is possible to monitor up to 10 cameras in the App. Resolution 640x480, dimension: 80x115x80mm, power supply: included in the package 5V/1A.	**iNELS CAM** 6703
	MULTIFUNCTIONAL GSM COMMUNICATOR GSM gate intended to be mounted in a switchboard enables a remote control of wireless units via SMS text message. It can also send SMS text message containing information about the status of wireless units. It contains 4 binary inputs for signals and 2 relay outputs 8A/2x2000W to switch directly the unit.	**RFGSM-220M** 4604
	REPEATER TO EXTEND THE RANGE Repeater in the socket design, that is used to increase the range of signal or in case of low signal between controller and unit. It is possible to repeat the signal of up to 20 units.	**RFRP-20** 4510

THE OVERVIEW OF OTHER KITS

THE GAME OF LIGHTS   ORDER CODE: 5453

1× **SMART RF BOX**

3× **COLORED WIRELESS BULB**

KIT TO CONTROL LIGHTS VIA SMARTPHONE

It has never been easier to set the appropriate ambience for reading a book, watching a movie or a party with friends. All you need is wireless bulbs and Smart RF box. Then you can control every device from the comfort of your smartphone, tablet or smart TV. You can control not just colored or white light bulbs, but other appliances too.

REMOTE HEATING   ORDER CODE: 5456

1× **SMART RF BOX**

3× **WIRELESS THERMOVALVES**

KIT TO CONTROL HEATING VIA SMARTPHONE

Includes 3 wireless thermovalves that are installed instead the standard radiator valves. They measures the room temperature and send it to the Smart RF box. Smart RF box compares it with the temperature set along with the time schedule in the application of your phone and sends a command to open or close the valve. You can always turn on the heating circuit via app, whether you're at home, or just going to visit your cottage and don't want to come to unheated place.

THE OVERVIEW OF OTHER KITS

EASY HEAT REGULATION

1× TEMPERATURE CONTROLLER

1× SWITCHING SOCKET
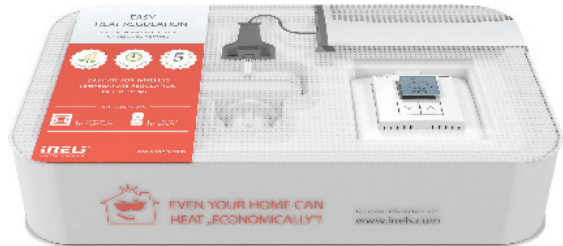
KIT FOR WIRELESS TEMPERATURE REGULATION IN THE HOME

This kit enables convenient and quick control of heater, oil heater, panel heater or portable air conditioner. Just plug the controlled device into switching socket and appropriately place your controller RFTC-50G. The desired temperature is set on the controller, that compares it with the current record and it sends a command to turn the device ON.

RADIO & MUSIC IN THE SWITCH

1× LARA RADIO

2× SPEAKERS

KIT FOR CONROLLING MUSIC, WHICH PERFECTLY FITS IN YOUR HOME´S INTERIOR

LARA is a music and internet radio player. We have registered 40 favorite Czech radios stations as presets stations, but you can easily change it using configurator. LARA plays the music stored in the NASA storage or in the external source (phone, MP3 player) connected through cable on the front panel of device. Inbuilt amplifier allows direct connection of speakers (in the same LOGUS 90 design) or allows connection of external in-wall or ceiling speakers.

THE OVERVIEW OF OTHER KITS

ONE CONTROLLER FOR ALL   ORDER CODE: 5457

1× SMART IR BOX

3× IR TRANSMITTER
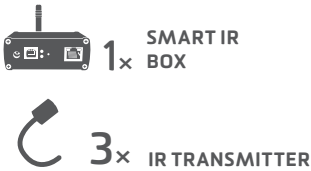
KIT FOR CONTROLLING IR DEVICES VIA A SMARTPHONE

Thanks to IR smart box, you can control home appliances via a Smartphone. Thus you no longer need a bunch of controllers, you do not have to look for them, and you do not need to replace the battery. You always stick your phone in your pocket, always at hand. Moreover, you can control devices which are placed in another room (e.g. you can turn off TV in the children room).

YOUR HOUSE UNDER „THE THUMB"   ORDER CODE: 5459

1× SMART RF BOX

1× WIRELESS SWITCHING SOCKET

2× COLORED WIRELESS BULB

1× CAMERA
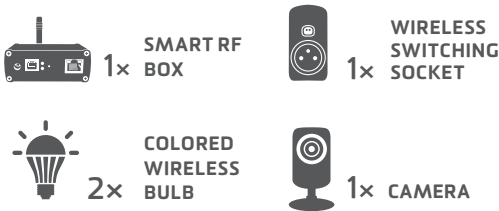
CONTROL YOUR HOUSE VIA A SMARTPHONE

The kit "House under the thumb" which you hold in your hands is the basic starter kit for all of you, who would like to make your home more comfortable. The starter kit consists of 2 x colored wireless bulbs, 1 x switching socket and 1 x camera, what allows you to try the basic units of iNELS RF Control – wireless solution. Everything is preset to ensure fast and easy installation.

VIRTUAL KITS

The virtual kit is a set of wireless units that are packed individually (as an individual product), but on the other hand they are preset together (they are meant to work together) to ensure simple installation. They are offered at a discounted price and it is not possible to separate any unit from this price.

UNDERFLOOR HEATING - BY WATER

Any wireless temperature regulator measures the room temperature, it compares with set temperature and time program, then sends a command to switch on the units. Based on the command from temperature regulator, 6-channels switching unit is able to control up to 6 thermovalves corresponding to heating circuits.
KIT CONSISTS OF:
Wireless temperature controller RFTC-50/G, wireless switch unit (6 outputs) RFSA-66M, thermodriver TELVA/230V.

UNDERFLOOR HEATING - BY ELECTRICITY

Temperature and switching unit (two in one) measures the floor temperature via external sensor (inbuild). Then it sends data to wireless touch unit RF Touch, which compares it with the temperature set along with the time schedule and then sends a command back to switch on/switch off the heating circuits. It is possible to connect up to 4 temperature/switching units.
Advice 1) If just one reference temperature is enough for you, so then it can be measured by temperature sensor RFTI-10B and to switch up to 6 independent heating circuits you can use 6-channels switching actuator RFSA-66M.
Advice 2) The wireless unit RF Touch can be replaced by Smart RF box and all can be controlled via your smartphone. Both solution can be used together.

KIT CONSISTS OF:
Switching actuator with thermosensor RFSTI-11/G, Wireless touch unit RF Touch.

AGAINST THE FLOOD

A wireless sensor monitors the water leaks or flooding in the critical places (basement, pits, shafts, bathroom, laundry,...) and sends immediately a command to the switching unit to close the solenoid valve of the main water supply. You can be also informed of that accident through GSM gateway by sending SMS text messages.
KIT CONSISTS OF:
Switch unit RFUS-61, wireless flood detector RFSF-1B,flood probe FP-1.
We recommend: solenoid valve: *MPW SS 304 - 1/2 (3/4) 230V AC.*

COLORED RGB LED STRIP

The app in your smartphone can send (through smart RF box) the commands to the dimming unit to which the RGB strip is connected. From your app it is possible to switch ON/OFF, to set the color or run the scene of automatic color blending.

Advice 1) The colored RGB strip can be controlled through RF Pilot, by controllers RFWB-20/40, RF key,...
Advice 2) If you do not want the colored RGB strip, we can replace it by monochromatic (warm white, cool white, red, ...). Then you can connect 8 m of monochromatic strip (power 7,2W/m) to RFDA-73M to each output.

KIT CONSISTS OF:
Smart RF box, dimmer RFDA-73M, 2 x 5m coloured RGB strip 7.2W/m, power supply 230V/12V/100W.

NOTIFICATION AND THEIR SOLUTIONS

RF TOUCH UNIT NOTIFICATIONS

● Notification is displayed in case of incomplete, inaccurate or incorrect entry information.

Notification	Procedure
Up to 40 rooms may be defined.	No more than 40 device names may be entered.
Saving failed.	Repeat entry.
Delete failed.	Repeat entry.
No unit assigned.	Assign the requested unit.
Two time programmes overlap within a single day.	New settings required.
No time programme available within a single day.	No other programme can be entered.
No day selected.	New settings required.
Switch-ON time may not exceed the switch-OFF time.	New settings required.
Unit already assigned to the room. Select another room.	One actuator can be assigned to one device name (except for Quick Control)
This room has already been defined in the group.	Enter a new name.
The address has already been selected in the unit list. Choose another address.	Enter correct information.
The address information must be complete.	Enter correct information.
„xxx" - displayed instead of temperature.	Actuator not programmed, actuator/sensor defect, communication failure.

NOTIFICATION AND THEIR SOLUTIONS

Notification	Procedure
Switch-ON date may not be the same as the switch-OFF date.	New settings required.
Switch-ON date may not exceed the switch--OFF date.	New settings required.
All 5 programs are already occupied.	No other program can be entered.
No unit assigned to the room.	New settings required.
This group is already assigned.	Calibrate the device (unplug the power supply from device, after reconnecting hold the logo of RF Touch, calibration will be completed by double tapping the cross buttons, which appear sequentially in each corner of the screen).
Display incomplete - control impossible.	Please contact the manufacturer.
EPROM memory error!	Please contact the manufacturer.
AT45 circuit error!	Please contact the manufacturer.
Setting of program for midnight and over midnight - at the time of 00:00 there is not any action of the actuator.	Setting of time over midnight: set the required switch-ON time and set the required switch-OFF time on 00:00, next day set the switch-ON time on 00:00 and set the required „switch OFF" time. Setting of time for midnight: set the required switch-ON time and set the required switch-OFF time on 23:59.
Forgot your password?	Please contact the manufacturer for further information.
Impossible to control display.	Forced calibration is performed when restarting RF Touch and then hold your finger on (screen) RF Touch logo.

iNELS®

smart home solutions