

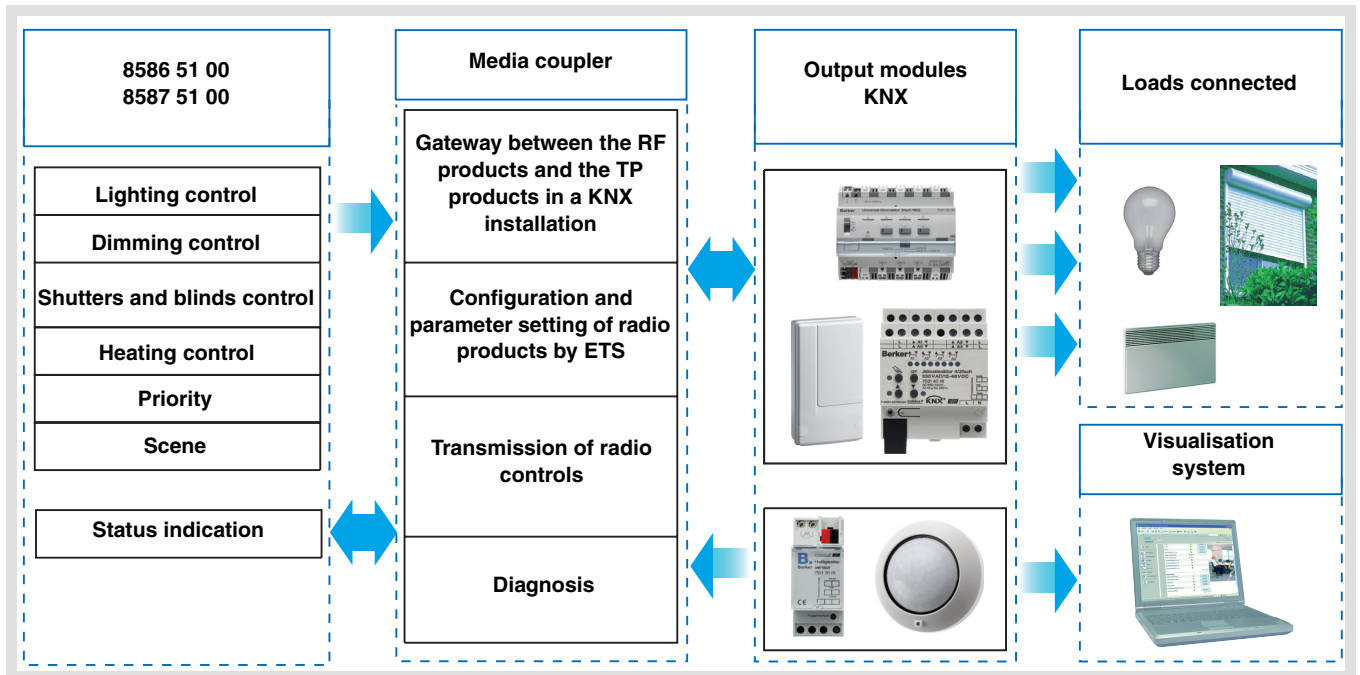


application software

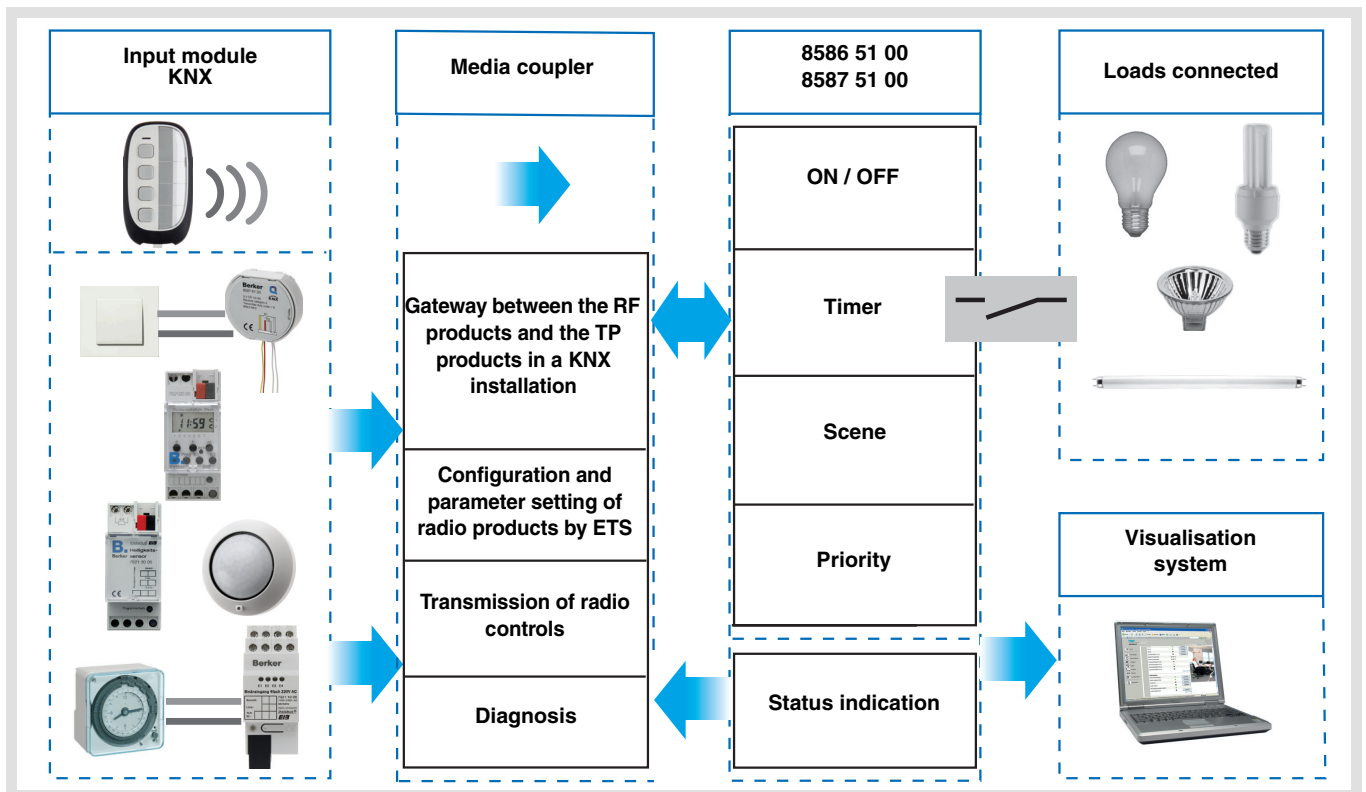
quicklink Radio ON / OFF Input / Output products
Electrical / Mechanical characteristics: see product information

	Product reference	Description	Application software ref.	TP device RF devices
	8586 51 00	1 lighting output + 1 input - IP55	S85865100	
	8587 51 00	1 output 10A + 1 binary input	S85875100	

Inputs



ON / OFF output





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1. Presentation

1.1 General points

All the radio emitters / receivers referred to in this document are Quicklink  RF devices. They can be recognised by the configuration **cfg** push button with which they are all equipped. Quicklink  indicates the configuration without tools mode.

These products can also be configured in E mode by the USB configurer or in S mode by ETS via the media coupler.

In this case, the version of the 8505 01 00 must fulfill the following characteristics:

- Firmware: $\geq 1.2.5$
- Plug-in: $\geq 1.0.11$

This document describes the configuration principle with the ETS software via the media coupler and the functions available in this mode.

Within the same installation, a single configuration mode may be used.

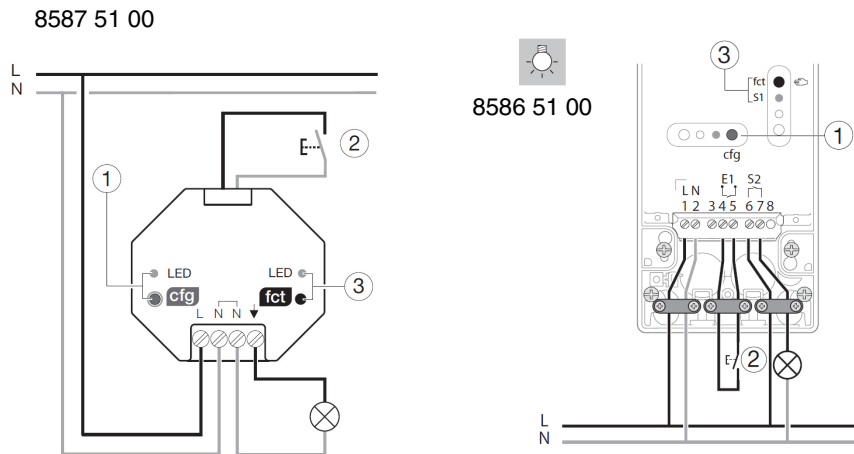
To re-use a product which has already been programmed in another installation, whatever the configuration mode, a factory reset must be performed on the product.




1.2 Function Description

The 1 application software enables configuring:

- 1 push button or switch input,
- 1 digital output.

Description



- 1  Button and LED configuration cfg
- 2  1 input for push button or switch
- 3  Button and LED function fct

1.2.1 Input

■ Emission of commands

The inputs allow commands for lighting, shutters and blinds, heating settings and scenes to be transmitted.

Emission of commands:

- Lighting control
 - Toggle switch, ON, OFF, ON / OFF, Timer, Priority
 - 1-button dimmer
- Shutters / Blinds control
 - Up, Down, Stop, Slat angle, Priority, Alarm 1 (Wind), Alarm 2 (Rain)
 - 1-button control
- Set point selection (Heating)
 - Comfort / Night set-point, Comfort, Night set-point, Frost protection / Auto, Frost protection, Auto, Standby, Comfort / Standby, Priority

■ Scene

The Scene function can be used to send group commands to different sorts of outputs to create atmospheres or scenarios (leave scenario, reading atmosphere, etc.).

■ Priority

The Priority function allows an input to be forced to a defined status. The forcing action depends on the type of application controlled: Lighting, Shutters / blinds, Heating.

■ Alarms

The Alarm 1 and Alarm 2 functions enable alarms to be sent to the bus from the automatic controls (anemometer, rain sensor, twilight switch, etc.). Alarm 1 has a higher priority than Alarm 2.

1.2.2 ON / OFF output

The application software allows you to configure individually the outputs.

The main functions are the following:

■ ON / OFF

The ON / OFF function is used to switch a lighting circuit ON or OFF.

The command may come from switches, pushbuttons or automatic controls.

■ Status indication

The Status indication function displays the status of the output contact. It allows a Toggle function to be created by sending the status indication to each push button of the group.

■ Timer

The Timer function is used to switch a lighting circuit ON or OFF for an adjustable time. Depending on the operation mode selected, the output may be delayed for ON or OFF switching. The Timer function can be interrupted via a long key press before the time delay expires.

■ Priority

The Priority function allows overriding an output to a definite status, ON or OFF. This command has the highest priority. No other command is taken into account if a priority is active. Only a priority end command re-enables the other commands.

Application: maintaining lighting ON for safety reasons.

■ Scene

The Scene function groups a set of outputs. These outputs can be set to an adjustable predefined status. Pressing a push button activates a scene. Each output may be integrated into 8 different scenes.

2. Configuration and settings

2.1 Inputs

2.1.1 Objects List

Function \ Object	ON / OFF	Toggle switch	Timer	1-button dimmer	1-button shutters / blinds	Heating	Scene
ON / OFF	X	X		X			
Status indication		X		X	X		
Timer			X				
Dimming				X			
Stop / Angle					X		
Up / Down					X		
Set point selection						X	
Scene							X
Priority	X					X	
Alarm 1 / 2					X		

2.1.2 Parameter setting

■ Parameter setting: Channel function

The product allows to control lighting, blinds, shutters, heating and scenes.

→ Parameters

Parameter	Description	Value
Channel function	This parameter allows selecting the function associated with each input.	Not used Toggle switch ON / OFF 1-button dimmer Shutters / blinds Alarm 1 Alarm 2 Heating Scene Timer Priority Default value: Not used

■ Channel function: Toggle switch

This function is used to switch the lighting circuit or any other load ON or OFF. Each new key-press modifies the output status.

Description: After pressing the connected pushbutton, depending on the **Status indication** object, an **ON or OFF** command will be sent to the bus via the **ON / OFF** object.

■ Channel function: ON / OFF

This function is used to switch the lighting circuit or any other load ON or OFF. The ON or OFF command will be transmitted to the bus via the **ON / OFF** object. The command to be sent (ON or OFF) can be defined in the parameters.

- ON: Emission of the ON command when the input contact is closed (or when the input push button is pressed),
- OFF: Emission of the OFF command when the input contact is closed (or when the input push button is pressed),
- ON / OFF: Emission of the ON command when the input contact is closed (or when the input push button is pressed) and emission of the OFF command when the input contact is opened (or when the input push button is released),
- OFF / ON: Emission of the OFF command when the input contact is closed (or when the input push button is pressed) and emission of the ON command when the input contact is opened (or when the input push button is released).

■ Channel function: 1-button dimmer

This function allows ON / OFF or Increase / Decrease controls using one push button.

■ Channel function: Shutters / blinds

This function controls shutters and blinds (Up, Down and slat angle adjustment for blinds).

Type of function: 1-button

This function controls shutters or blinds using one push buttons (Input).

Function change after each press (Down, Stop, Up, Stop). Slat angle adjustment is not possible here.

Type of function: Automatic controls

This function is used to control shutters or blinds (without slat angle adjustment) using automatic controls (Switch, etc.).

The automatic controls transmits the **Up / Down** object.

The command to be sent (up or down) must be defined in the parameters.

- Up: Emission of the **Up** command when the input contact is closed,
- Down: Emission of the **Down** command when the input contact is closed,
- Up / Down: Emission of the **Up** command when the input contact is closed and emission of the **Down** command when the input contact is opened,
- Down / Up: Emission of the **Down** command when the input contact is closed and emission of the **Up** command when the input contact is opened.

■ Channel function: Alarm 1 or Alarm 2

The Alarm 1 and Alarm 2 functions allow alarms coming from automatic controls to be periodically emitted (anemometer, Rain detector, Light-sensitive switch, etc.).

To place the shutters in safety position in case of bad weather: link the Alarm 1 and Alarm 2 functions with the **Alarm 1** and **Alarm 2** object of the **Shutter / Blind output modules**.

These functions have the highest priority. Alarm 1 has a higher priority than Alarm 2.

■ Channel function: Heating mode selection

This function is used select a heating setpoint. The operating modes are sent via the **Set point selection** object. The set point selection to be sent must be defined in the parameters.

- Comfort / Night set-point: Emission of the **Comfort** control when the input contact is closed and emission of the **Night set-point** control when the input contact is opened,
- Comfort: Emission of the **Comfort** command when the input contact is closed (or when the input push button is pressed)
- Night set-point: Emission of the **Night set-point** command when the input contact is closed (or when the input push button is pressed),
- Frost protection / Auto: Emission of the **Freeze protection** command when the input contact is closed and emission of the **Auto** command when the input contact is opened,
- Frost protection: Emission of the **Frost protection** command when the input contact is closed (or when the input push button is pressed),
- Auto: Emission of the **Auto** command when the input contact is closed (or when the input push button is pressed),
- Standby: Emission of the **Standby** command when the input contact is closed (or when the input push button is pressed),
- Comfort / Standby: Emission of the **Comfort** command when the input contact is closed and emission of the **Standby** command when the input contact is opened.

■ Channel function: Scene

The Scene function sends group controls to different kinds of outputs to create ambiances or scenarios (Panic switch, Television, etc.).

The value of the **Scene** object is defined by the **Scene number** parameter.

■ Channel function: Timer

This function operates like a staircase light function. The timer duration is set on the output module.

Feature:

- short key press (rising edge): Timer start,
- long key press (falling edge): Timer end.

The time is retrigged in the output by a recurrent short key press. Successive presses on the control button for the timer increase the timer's duration. The effective length will then be multiplied by the number of presses made during the 10 s following the first press.

■ Channel function: Priority

This function sends priority-start or priority-stop commands.

No other command is taken into account if a priority is active. Only end of priority or alarm commands will be taken into consideration.

The command to be sent must be defined in the parameters:

- Priority ON - Up - Comfort: Emission of the **Priority ON - Up - Comfort** command when the input contact is closed and emission of the cancellation of this priority when the input contact is opened,
- Priority OFF - Down - Freeze protection: Emission of the **Priority OFF - Down - Freeze protection** command when the input contact is closed and emission of the cancellation of this priority when the input contact is opened.

2.2 Outputs

2.2.1 Objects List

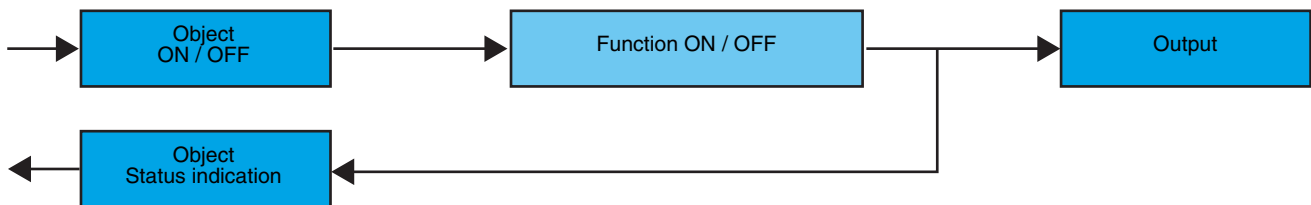
12	Output 1	ON / OFF	1 bit	C	R	W	-	-	Low
13	Output 1	Timer	1 bit	C	R	W	-	-	Low
14	Output 1	Priority	2 bit	C	R	W	-	-	Low
15	Output 1	Scene	1 Byte	C	R	W	-	-	Low
16	Output 1	Status indication	1 bit	C	R	-	T	U	Low

■ Parameter setting

2.2.2 Function ON / OFF, Status indication

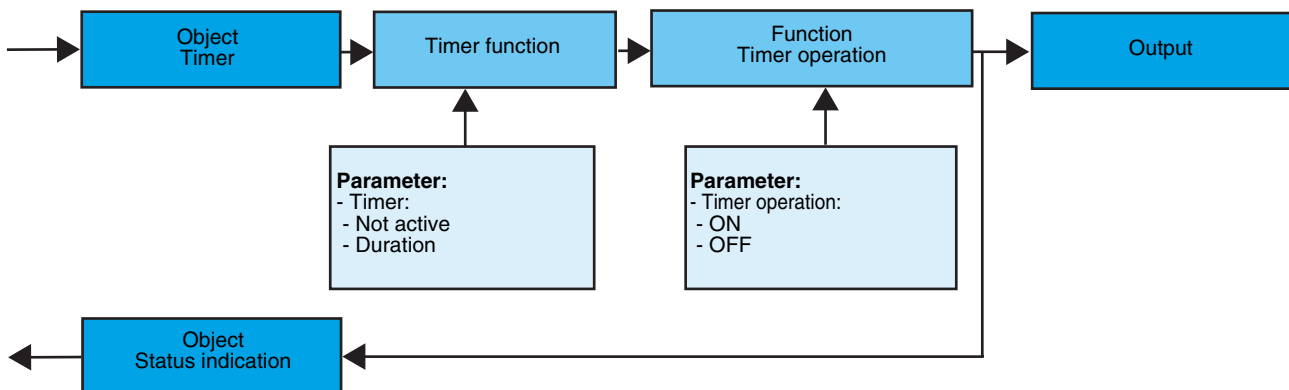
The ON / OFF function is used to switch the output ON or OFF. The status of the output depends on the activation of other functions and of the associated parameters: Priority, timer or scene.

The status of the output is indicated on the bus by the **Status indication** object.



2.2.3 Timer function

The Timer function is used to switch a lighting circuit ON or OFF for an adjustable time. The function is started by the **Timer** object.



→ Parameters

Parameter	Description	Value
Timer	This parameter defines the length of the delay time.	Not active, [1 s 24 h] Default value: 3 min
Timer operation	This parameter defines whether the delay time triggers an ON or an OFF status.	ON, OFF Default value: ON

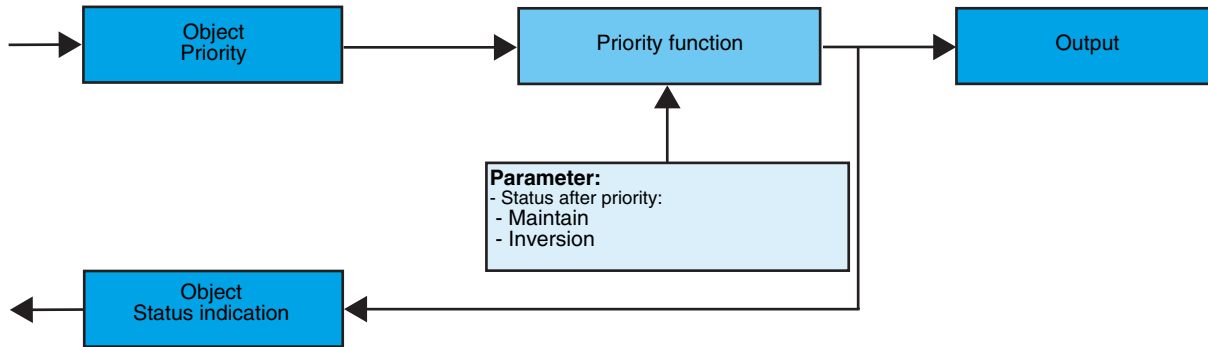
Setting range [1 s - 24 h]

1 s, 2 s, 3 s, 5 s, 10 s, 15 s, 20 s, 30 s, 45 s, 1 min, 1 min 15 s, 1 min 30 s, 2 min, 2 min 30 s, 3 min, 5 min, 15 min, 20 min, 30 min, 1 h, 2 h, 3 h, 5 h, 12 h, 24 h.

■ Priority function

The Priority function allows the outputs to be forced and maintained at a definite ON or OFF status imposed by the input. This function is started by the **Priority** object.

Priority is the function with the highest priority. Only a cancellation command for the priority can end the priority and authorise other commands to be followed again.



→ Description of the **Priority** object

Value	Output behaviour
00	Priority end
01	Priority end
10	Priority ON
11	Priority OFF

→ Parameters

Parameter	Description	Value
Status after priority	This parameter defines the output status to be applied at the end of the Priority.	Maintain, Inversion - Maintain: The output is maintained in the status which was active before the priority, - Inversion: Inversion of the output's status with regards to the status active during Priority (ON to OFF and OFF to ON). Default value: Maintain

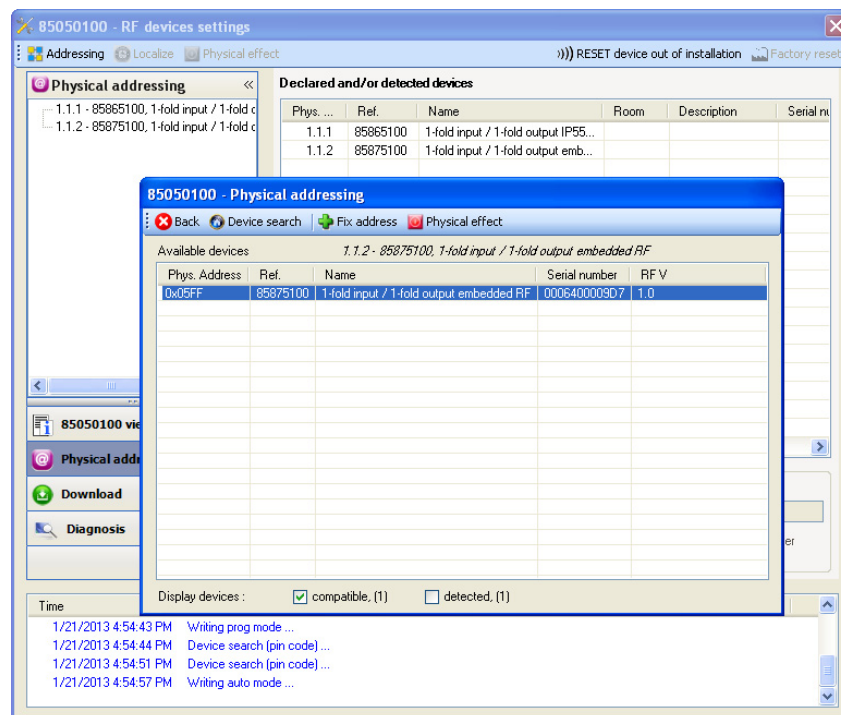
2.3 Configuration with media coupler (ETS version \geq 3.0f)

■ Configuration principle

The 8505 01 00 media coupler enables configuration by ETS of RF devices for a KNX radio installation or a mixed KNX installation including RF devices and wired buses. The radio emitters / receivers always function in bidirectional mode.

Procedure:

- Create a line reserved for RF devices in your ETS plan. First insert the media coupler into this line, then insert the other RF devices into this line,
 - Perform the programming, parameter settings and group addressing for all the RF products except for the media coupler,
 - Download the physical address of the media coupler. This must be of the type 1.1.0. (always end with a zero),
 - Install the media coupler plug-in: Right-click on the product in the ETS tree structure, then select **edit the parameters**. Windows Administrator rights are necessary to install the plug in.
- Physical addressing:
- This step takes place in the physical addressing screen of the plugin,
 - Click on the **physical addressing** field on the menu line at the top of the window,
 - Click on **Product search**, the list of compatible products within radio range will be displayed. If the product is not found by the search, perform a **RESET device out of installation**. The factory reset may also be performed manually on a product by pressing the cfg button for >10 s,
 - The physical addressing of the product is performed. The product is now part of the installation.



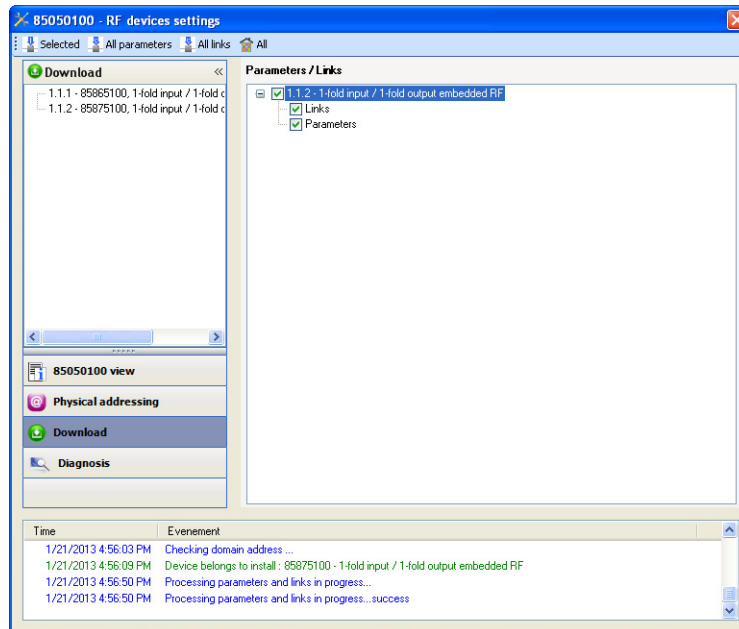
The **Physical effect** button enables the selected product to be identified and located.

■ Downloading the program and the parameters

This operation is performed on the **Download** screen of the plug in:

- Click on **Download** and follow the instructions on the screen.

To test the functions and the KNX radio communication, return to normal use mode and wait 15 s before pressing a control button on a transmitter.

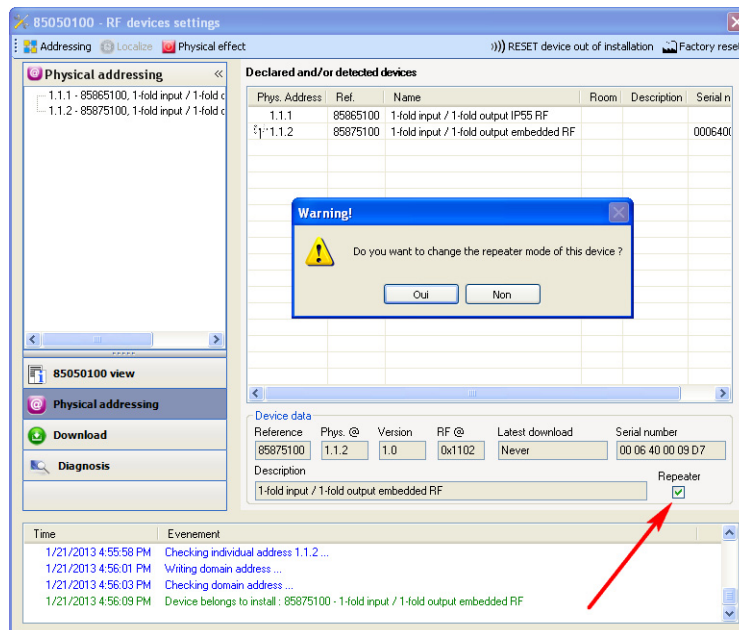


Caution: The media coupler plug-in must be deactivated during the functional tests.

NB: For more information, refer to the description for the 8505 01 00 application software.

■ Repeater Function

It increases the radio range of the system by re-sending the messages received by the product.



To activate the Repeater function, tick the repeater box on the physical addressing screen of the product concerned.

3. Factory reset

This function enables the product to be returned to its initial configuration (factory reset). After a device reset, the device can be re-used in a new installation. The factory reset can either be performed directly on the product, or via the media coupler plug-in. The latter solution is recommended if the product is part of the installation configured by ETS, which erases the product from the project.

3.1 Factory reset by ETS via the media coupler

- For a product which is part of the installation (known by the media coupler): In the **Physical addressing** menu, select **Factory reset** and then follow the instructions which appear on the screen,
- For a product which is not part of the installation (unknown by the media coupler): In the **Physical addressing** menu, select **RESET device out of installation**, then select **Bi-directional product**.

3.2 Factory reset on the product

It is always possible to perform the factory reset directly on the device.

Factory reset on the product:

- Do a long key press (> 10 seconds) on the **cfg** push button, release the button when the **cfg** LED blinks,
- Wait for the **cfg** LED to switch off, indicating that the factory reset has been completed.

Remark:

To re-use a product which has already been programmed in another installation, whatever the configuration mode, a factory reset must be performed on the product.

4. Main characteristics

Product	8586 51 00 / 8587 51 00
Max. number of group addresses	87
Max. number of links	95

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