




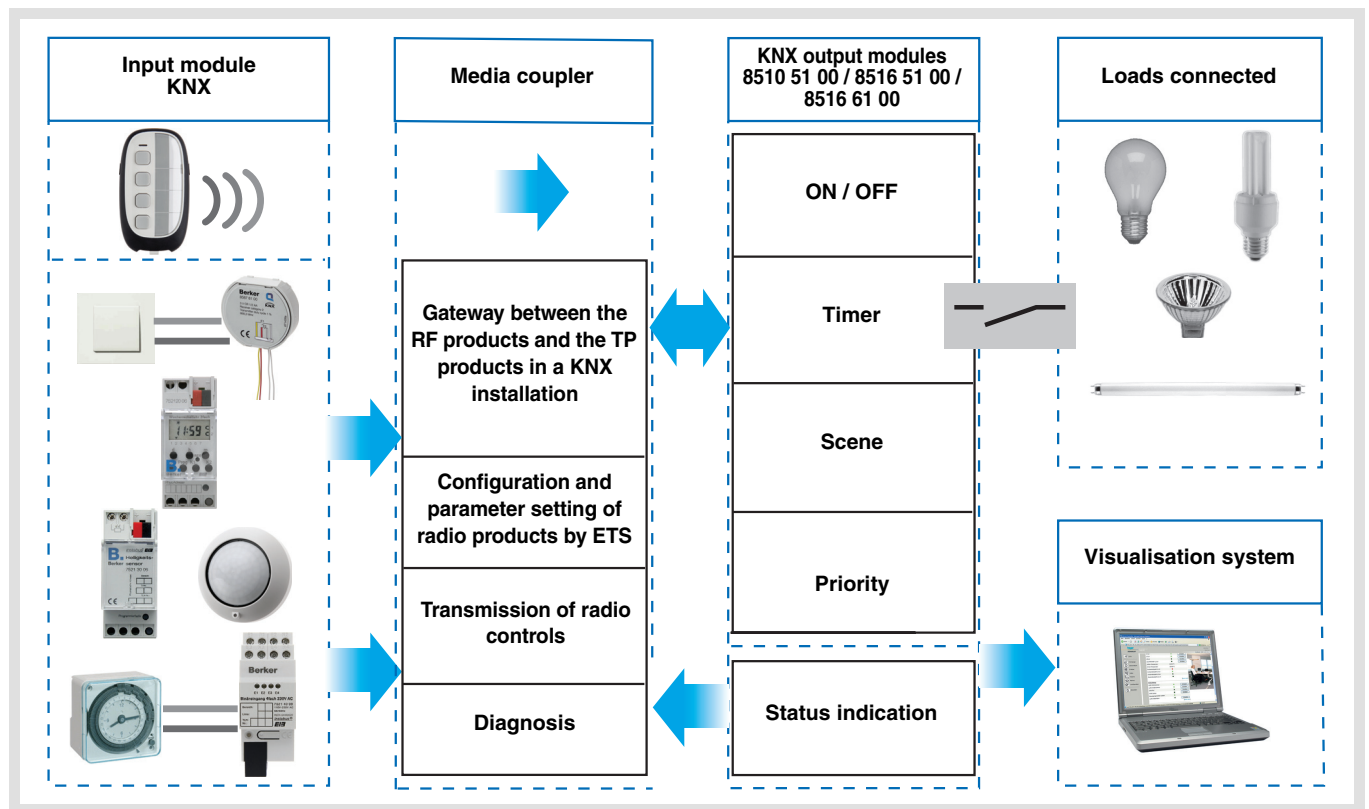




application software

quicklink  ON / OFF radio output products
Electrical / Mechanical characteristics: see product information

	Product reference	Product designation	Application software ref.	TP device  RF device 
	8510 51 00	Radio plug adaptor	S85105100	
	8516 51 00 8516 61 00	Radio 1 output 10A receiver, IP55 Radio 2 outputs 10A, IP55	S85165100 S85166100	



Summary

- 1. Presentation 3
 - 1.1 General points 3
 - 1.2 Function Description 3
- 2. Configuration and settings 4
 - 2.1 Objects List 4
 - 2.2 Parameter setting 4
 - 2.3 Configuration with media coupler (ETS version > 3.0f) 6
- 3. Factory reset 8
 - 3.1 Factory reset by ETS via the media coupler 8
 - 3.2 Factory reset on the product 8
- 4. Characteristics 9

1. Presentation

1.1 General points

All the radio 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 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 can be interrupted before the end of the time delay.

■ 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 can be integrated in 8 different scenes.

2. Configuration and settings

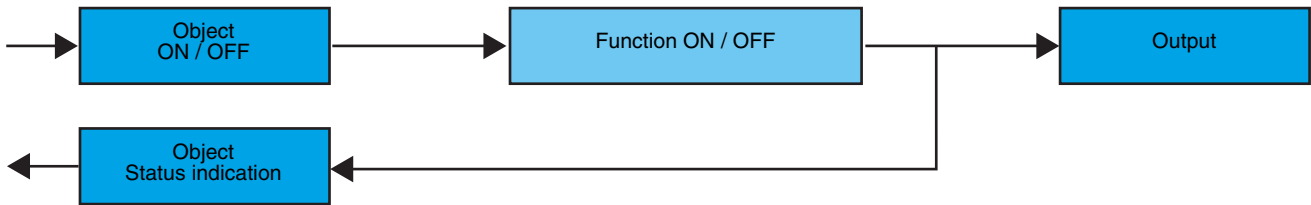
2.1 Objects List

Nu...	Name	Object Function	Length	C	R	W	T	U	Priority
0	Output 1	ON / OFF	1 bit	C	R	W	-	-	Low
1	Output 1	Timer	1 bit	C	R	W	-	-	Low
2	Output 1	Priority	2 bit	C	R	W	-	-	Low
3	Output 1	Scene	1 Byte	C	R	W	-	-	Low
4	Output 1	Status indication	1 bit	C	R	-	T	U	Low

2.2 Parameter setting

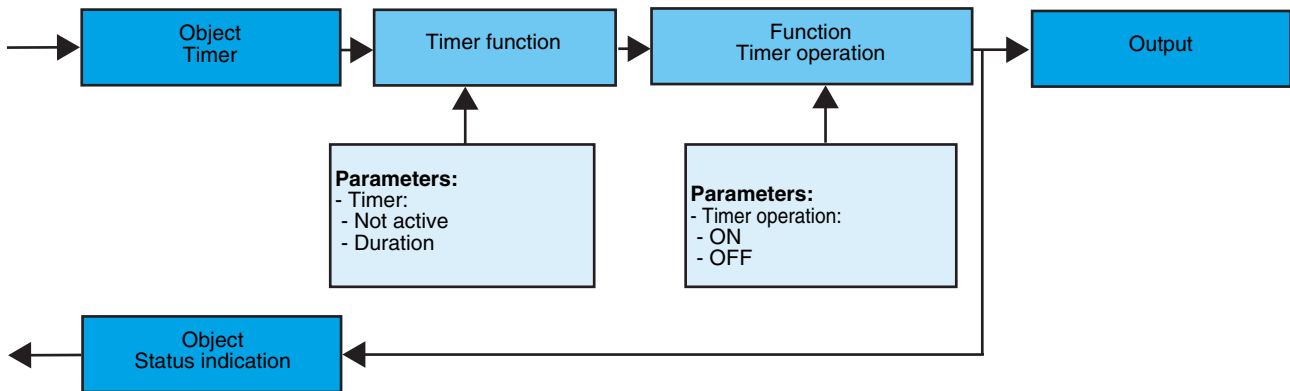
■ ON / OFF functions and Status indication

The ON/OFF function enables switching the output to ON or to OFF using the **ON/OFF** object. 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.



■ 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

Designation	Description	Values
Timer	This parameter defines the length of the delay time.	Not active, Range [0,5 s - 24 h]*
Timer operation	This parameter defines whether the delay time triggers an ON or an OFF status.	ON, OFF Default value: ON

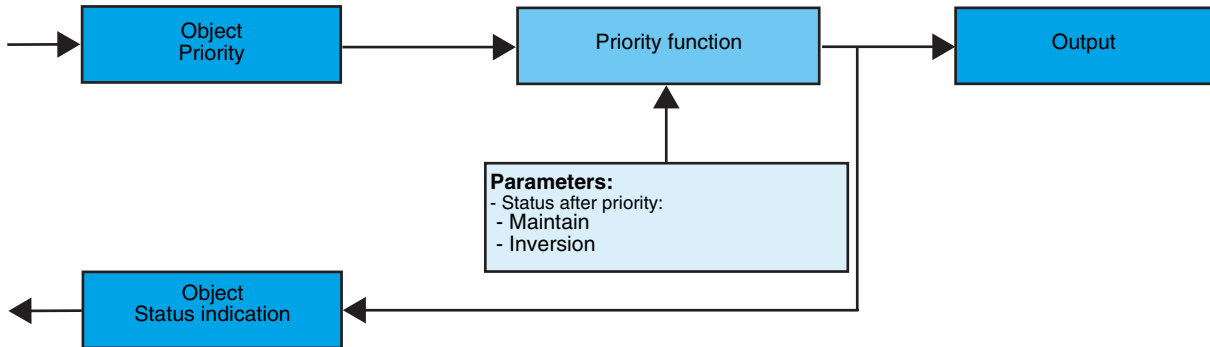
* Setting range [1 s - 24 h]

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 the bus commands to be followed again.



→ Description of the **Priority** object

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

→ Parameter

Designation	Description	Values
Status after priority	This parameter defines the output status to be applied at the end of the Priority.	Maintain, Inversion <ul style="list-style-type: none"> • Maintain: Maintains the output at the status active during 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

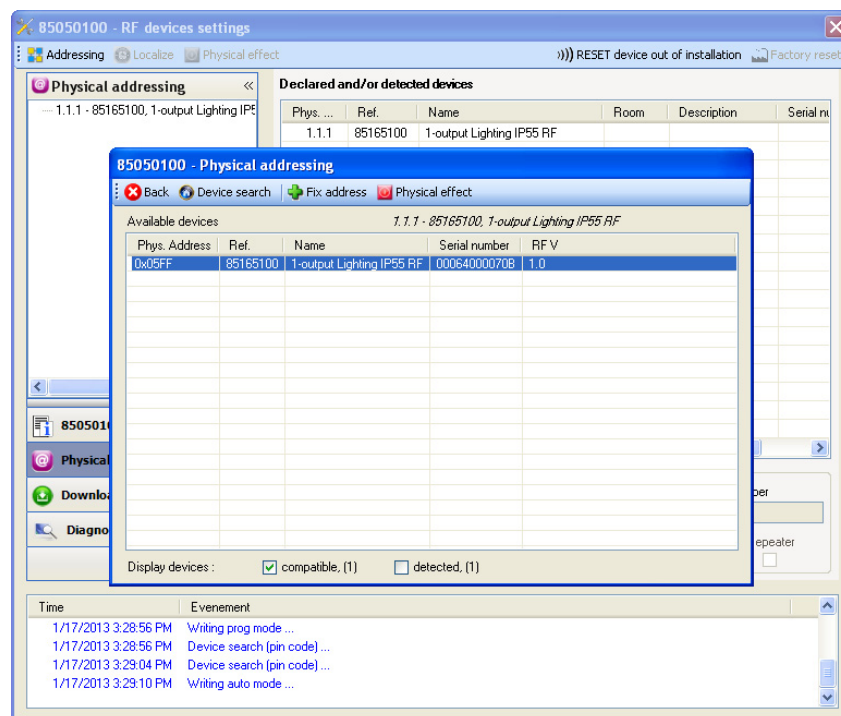
2.3 Configuration with media coupler (ETS version \geq 3.0f)

■ 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 receivers always function in bi-directional 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:
- Click on the button **Physical addressing** to display the physical addressing screen for the plug in,
 - Choose a product from the list and click on the **Addressing** button in 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,
 - Select the desired product from the list generated by the search, then click the button **Fix address**,
 - The physical addressing of the product is performed. The product is now part of the installation.



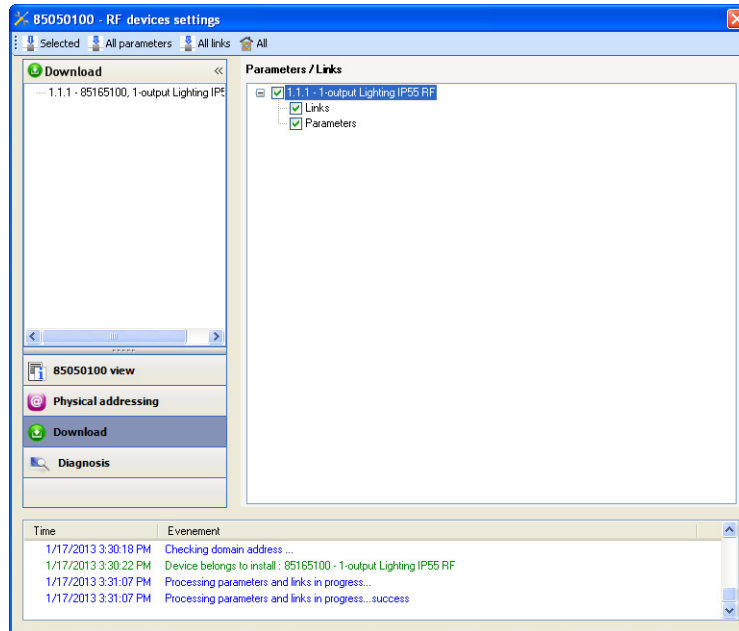
The **Physical effect** button enables the selected product to be identified and located.

■ 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 radio KNX functions and communication, return to normal use mode and wait 15 s before executing a command.

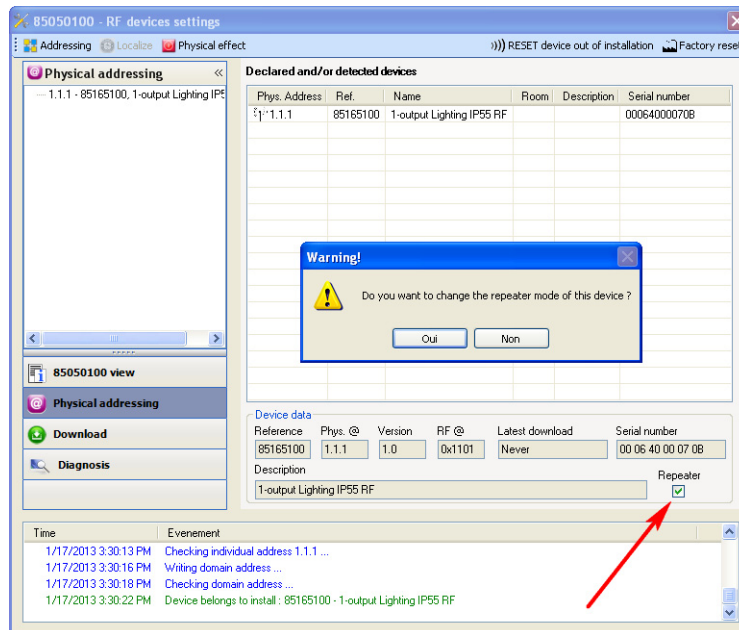


Caution: The media coupler plug-in must be deactivated during the functional tests.

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.



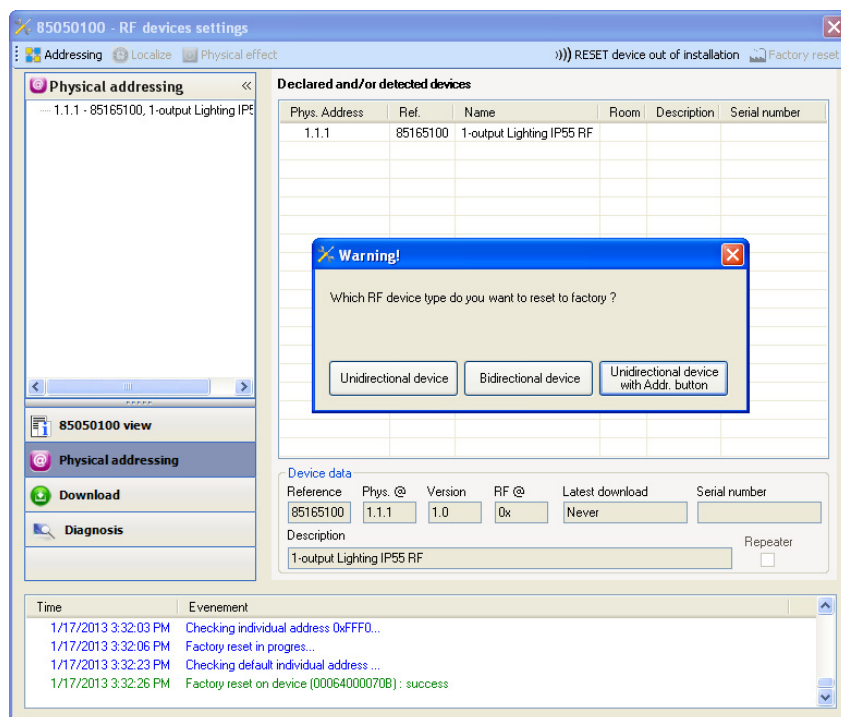
To activate the Repeater function, tick the repeater box on the physical addressing screen of the product concerned.

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. A factory reset can be performed either directly on the product or by 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. Characteristics

Product	8510 51 00	8516 51 00	8516 61 00
Max. number of group addresses	92	86	83
Max. number of links	105	100	100

Berker GmbH & Co. KG
Klagebach 38
58579 Schalksmühle/Germany
Telefon + 49 (0) 2355/905-0
Telefax + 49 (0) 2355/905-111
www.berker.de