

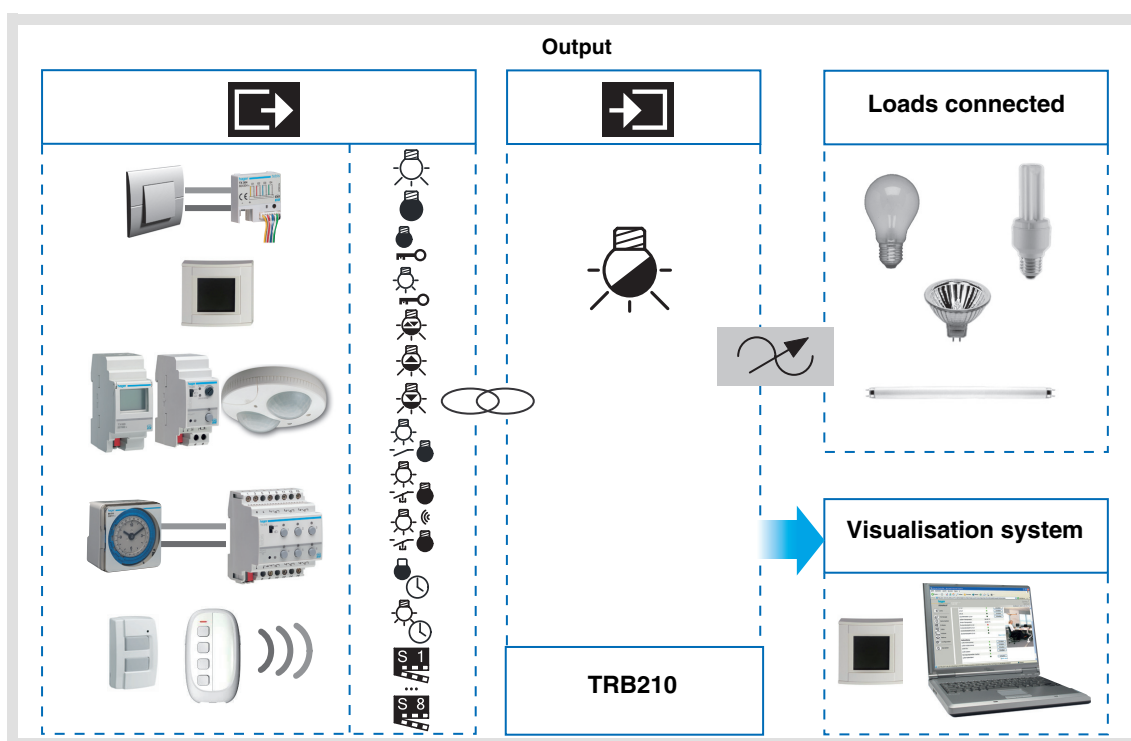
Tebis TX100 Configurator



RF dimmer quicklink

Electrical / Mechanical characteristics: see product information

	Product reference	Product designation	TX100 version	TP device RF device
	TRB210	Flush-fitting 200W 1 output dimmer module	≥ 2.6.0	



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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 to E mode by the TX100 or in S mode by ETS via the media coupler TR131.

In this case, the version of the TR131 must fulfill the following characteristics:

Firmware: $\geq 1.2.5$

Plug-in: $\geq 1.0.11$

This document describes the configuration principle with the TX100 tool and the functions available in this mode.

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

To reuse with TX100, a product that has already been programmed in another installation whatever the initial configuration (quicklink , TX100 or ETS), it is necessary to carry out a factory reset on the device.

1.2 Function Description

The main functions of the dimming lighting application are as follows:

■ Function ON / OFF

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

ON: switching on at the last level memorised.

OFF: switching OFF.

The control can come from push buttons.

■ Dimming

The dimming enables the level of lighting to be increased or decreased progressively by a long key-press on the push button.

■ 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.

■ Priority

The Priority function enables the output to be forced to 100% 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.

■ Status indication

The Status indication function displays the status of the output contact.

2. Configuration and settings

2.1 Configuration

These functions are available in the TX100's Standard configuration mode by creating links with the appropriate output devices. The radio receivers always function in bi-directional mode.

■ Configuration principle

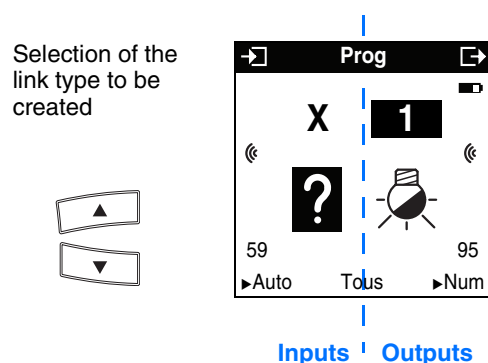
→ Programming the product

- Go to Prog mode and do a long key-press on the button of TX100 to launch the products tutorial for the installation.

After learning, the outputs are represented by the symbol in the right-hand part of the TX100 screen.

The dimmer Lighting functions command the dimmer Lighting output symbolized by the icon on the right part of the display.

After numbering the push buttons, the functions and the links available appear in the left-hand part of the TX100 screen.



The symbol indicates that it is a radio input. To select the functions, switch to the numbering mode.

The table here after shows all type of links compatible with the product:

Possible link type		Link description	Output operation
	ON	The ON function switches the lighting circuit ON.	Press on the push button → the light switches ON at the last level stored Pressing repeatedly keeps the light on the last level stored.
	OFF	The OFF function switches the lighting circuit OFF.	Press on the push button → Switching OFF the light at 0% Pressing repeatedly keeps the light off.
	Toggle switch	The Toggle switch function allows inverting the status of the lighting circuit.	Press on the push button → Toggle between switching ON at the last level stored and switching OFF at 0% Pressing repeatedly inverts the status of the output contact each time.
	1 push button dimmer	The 1-push button Dimmer function allows dimming the light with one single push button.	Short press on the push button → Toggle between switching ON at the last level stored and switching OFF at 0% Long press on the push button → Increase or reduction of the lighting level
	2 push buttons dimmer: Increase	The Increase Function allows increasing the output level.	Short press on the push button → the light switches ON at the last level stored Long press on the push button → Increase of the lighting level

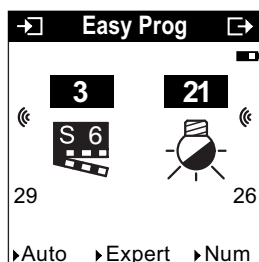
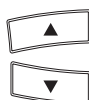
Possible link type		Link description	Output operation
	2 push buttons dimmer: Decrease	The Reduction function allows decreasing the output level.	Short press on the push button → Switching OFF of the light Long press on the push button → Reduction of the lighting level
	Switch	The Switch function switches the lighting circuit ON or OFF.	Press on the push button → the light switches ON at the last level stored Releasing the push button → Switching OFF the light at 0%
	Timer ON	The Timer ON function switches the lighting circuit ON for an adjustable time. Select the time delay after confirming the link: Setting range [0 s - 24 h] Not active, 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.	Short (<1 s) push button press → Lighting comes on for an adjustable time(at last level stored). Interruption of the time delay: Prolonged press (>1 s) on the push button → Stop of the current delay and switching OFF at 0% (OFF)
	Timer OFF	The Timer OFF function switches the lighting circuit off for an adjustable time. Select the time delay after confirming the link: Setting range [0 s - 24 h] Not active, 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.	Short (<1 s) push button press → Delayed switching OFF of the light Interruption of the time delay: Prolonged press (>1 s) on the push button → Stop of the current delay and switching ON of the light at the last level stored.
	Priority ON	The Priority ON function forces the lighting circuit ON and maintains it ON.	The ON priority switches the light ON to 100%, whatever the level stored. The OFF priority switches the light off to 0%, whatever the stored level. 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. After confirming the link, select the end of priority behaviour: • Maintain: the output is maintained in the same status as during Priority, • Inversion: the output is inverted in relation to the status active during Priority.
	Priority OFF	The OFF Priority function forces the lighting circuit OFF and maintains it OFF.	

2.2 Scene Functions

■ Link creation

It is possible to create links between a push-button and the outputs which are to be part of the scene by selecting a Scene function (number 1 to 8).

Selection of the link type to be created

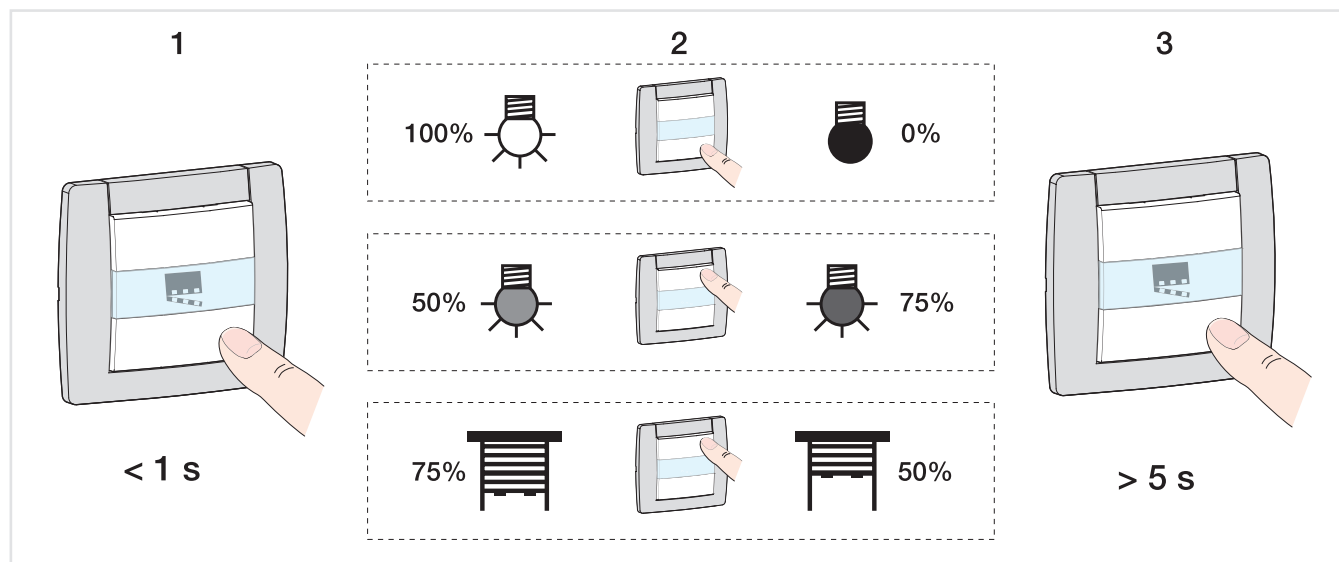


Possible link type	Link description	Output operation
 ... 	Scene 1 to 8 The Scene function groups a set of outputs. These outputs can be set to an adjustable predefined status. Pressing a push button activates a scene. Each output may be integrated into 8 different scenes.	The status of each output can be defined: • By output settings. • Via learning, with the push buttons on the installation or on the front of certain devices.

■ Learning and memorisation of scenes

This procedure enables a scene to be modified and memorised by locally using the push buttons in the room, on a remote control RF.

- Activate the scene with a short key-press on the transmitter that launches the scene,
- Put the outputs (Lighting, Shutters, Thermostat, etc.) into the desired status using the usual local controls (push button, remote control, etc.),
- Memorise the status of the inputs with a long key-press greater than 5s on the transmitter that launches the scene. The memorisation is indicated by the momentary activation of the outputs.



2.3 Repeater Function

It increases the radio range of the system by re-sending the messages received by the product. Inactive by default, the Repeater function can be activated from the Product Management / TX100 Repeater menu.

3. "+ info" and "expert" mode of the TX100

3.1 Mode + Info

The mode +Info can be accessed in the Prog and Visu modes of the TX100. This display mode is active for the installation products until it is deactivated.



The +Info mode allows the status indication to be linked from an output to a viewing product: Area controller, LED output, etc. The status indication sends the current status over the network each time the status changes.

The status indication is represented by the symbol .

The status indication adds itself to the list of inputs on the left of the TX100 screen with the same number as the output.

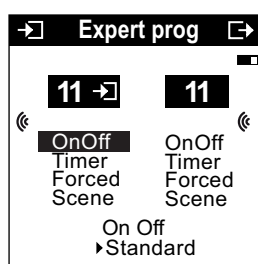
3.2 Expert mode

■ General points

The Expert mode allows:

- Non-configurable KNX products to be integrated by ETS (viewing tool, Internet gateway, domovea) in the installation,
- Specific links, not available in the Standard configuration mode, to be created.

In Expert mode, the functions are displayed through the communication objects used in the configuration ETS mode. The objects appear as a list located under the input and output numbers.



The Expert mode allows links to be established between objects with the same format by giving them the same group address.

■ List of the available objects

Designation TX100	Designation ETS	Function	Format	Description
OnOff	On/Off	ON / OFF	EIS1 1 bit	Allows an ON / OFF command to be transmitted.
IOOnOff	InfoOn/Off	ON / OFF information	EIS1 1 bit	Indicates the output's status.
DimCtrl	DimmingCtrl	Dimming command	1 bit	Allows changing the output level of a dimmer.
DimVal	DimmingValue	Absolute dimming	EIS2	Used to establish the output level of a dimmer in %.
IDimVal	InfoDimmingValue	Absolute dimming info	EIS2	Used to know the lighting level of the output in %.
Timer	TimedStartstop	Timer	EIS1 1 bit	Allows you to activate or interrupt the timer.
Forced	Forced	Priority	EIS2 2 bit	Forces an output.
Scene	SceneNumber	Scene	1 byte	Activates the scene by its number.

4. Restore Factory Configuration function

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 be performed either directly on the device or via the Product Management / Factory Reset menu of TX100. The latter solution is recommended if the product is part of the installation configured by TX100.

4.1 Factory reset using the TX100

The device belongs to the installation: it appears in the Reset menu's list of devices that can be reset to Factory configuration.

- Select the product in the list,
- Press  and confirm the erasing.

After a device reset, the installation must be learnt again in order to relocate the devices reset to Factory configuration.

4.2 Factory reset on the product

The factory reset can be performed on the product, if the data of the TX100 project has been lost or if the product is not part of the installation.

Factory reset on the product:

- Press and hold the "Cfg" button (> 10 seconds), release the button as soon as the "Cfg" LED starts to flash,
- Wait for the "Cfg" LED to go out, indicating that the factory reset is complete.

To reuse with TX100, a product that has already been programmed in another installation whatever the initial configuration (quicklink , TX100 or ETS), it is necessary to carry out a factory reset on the device.

5. Characteristics

Product	TRB210
Max. number of group addresses	96
Max. number of links	100

