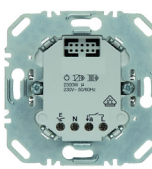




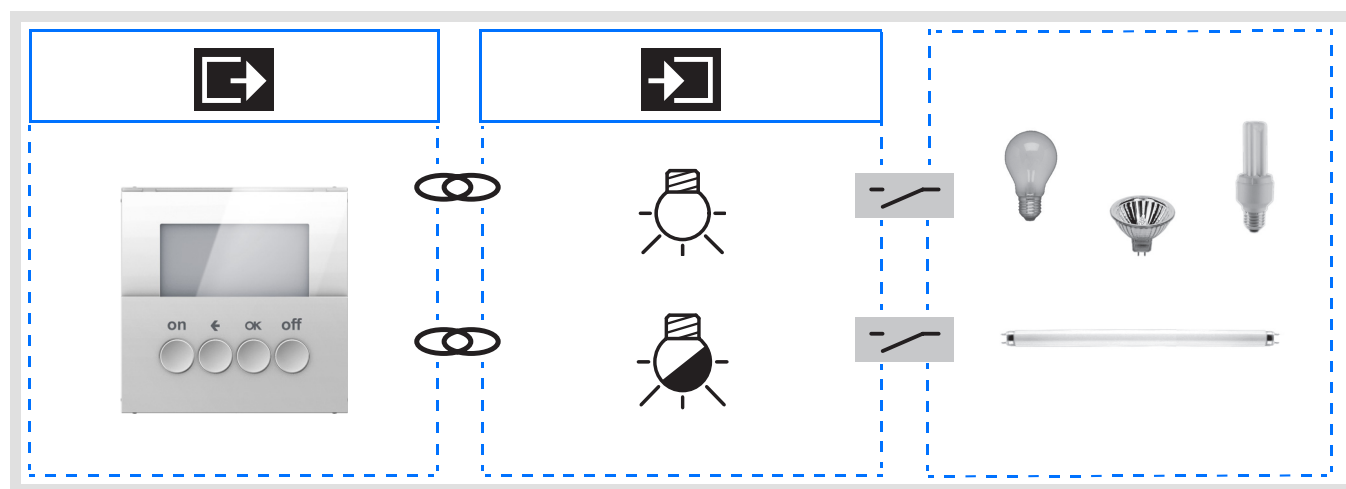
Tebis TX100 Configurator

Input products / ON / OFF output / RF dimmer

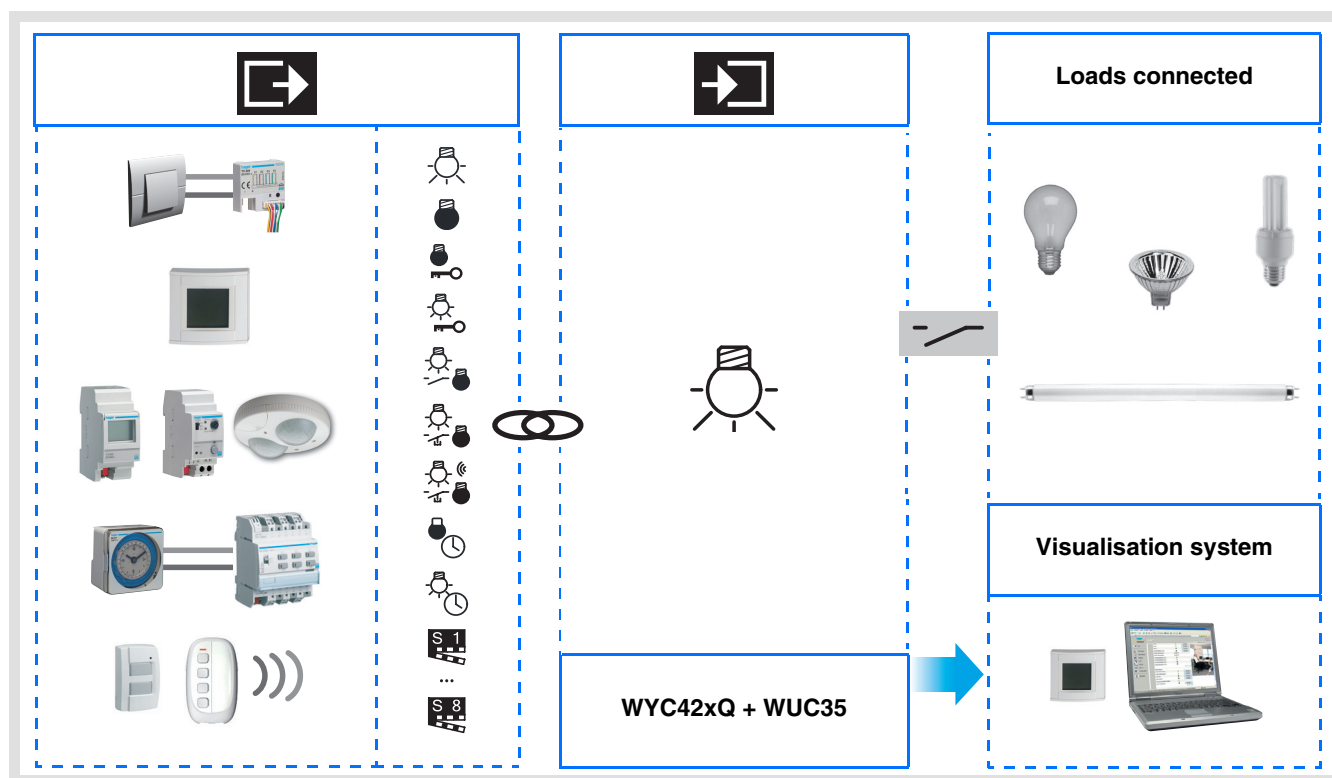
Electrical / Mechanical characteristics: see product user manual

	Product reference	Product designation	TX100 version	TP device  RF device 
	WYC42xQ	Control module Time switch ON / OFF RF	≥ 2.7.0	
	WUC35 WUC18	Power module 1 changeover output Power supply		

Inputs



ON / OFF output



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1. Presentation

1.1 General points

All radio transmitters referred to in this document are radio quicklink  products. 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 TR131 must fulfill the following characteristics:

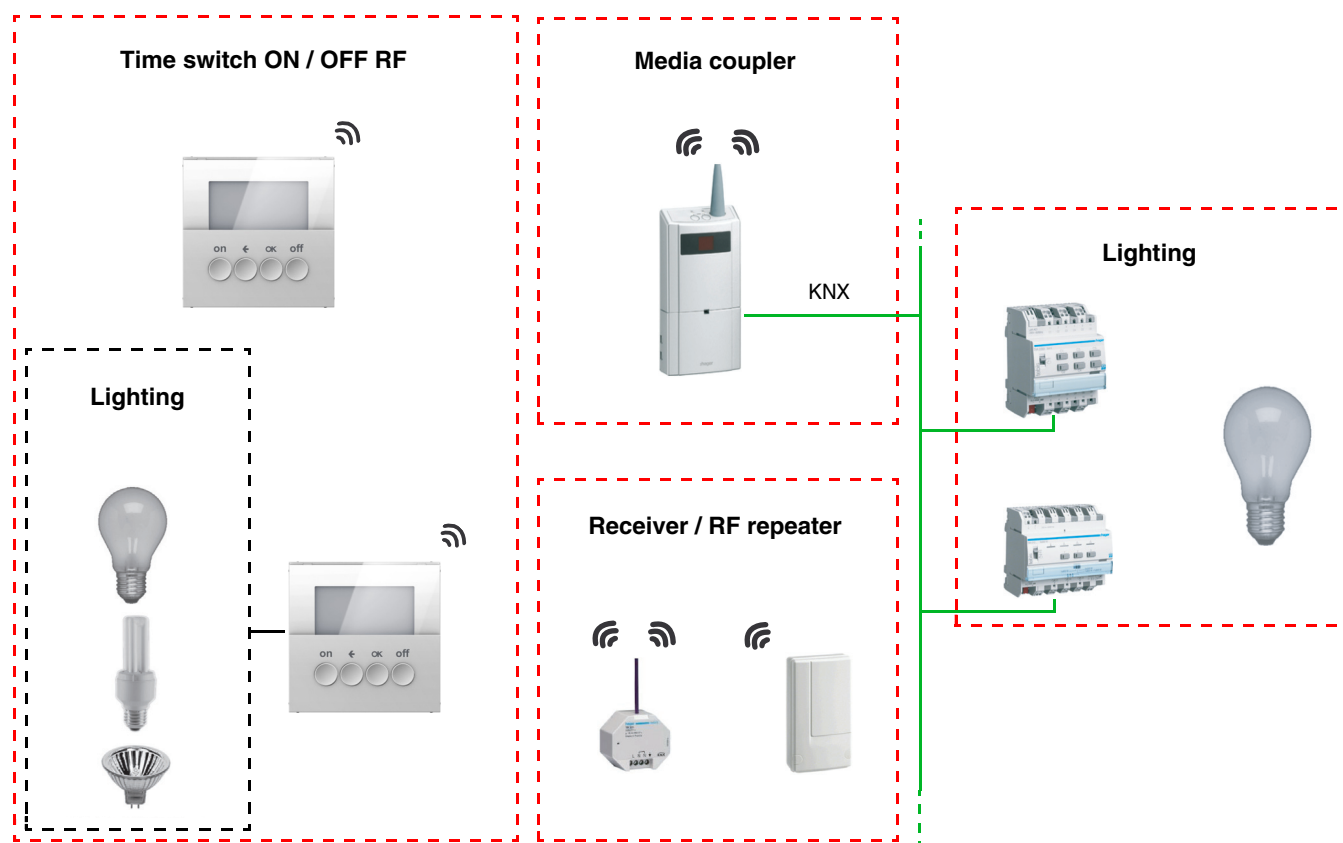
- Firmware: $\geq 1.2.5$
- Plug-in: $\geq 1.0.11$

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.

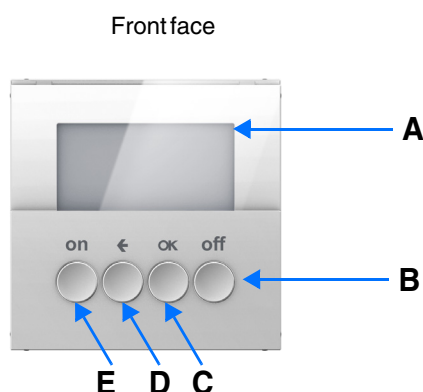
To reuse with TX100, a product that has already been programmed in another installation whatever the initial configuration (quicklink , TX100 or ETS), it is necessary to carry out a factory reset on the device.

1.2 General outline



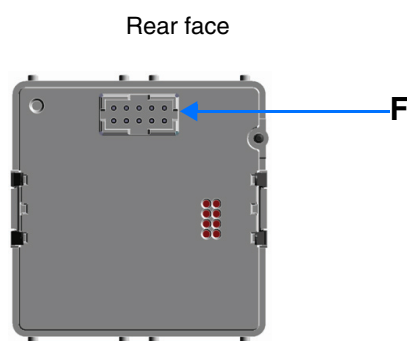
1.3 Description of the product

Control module



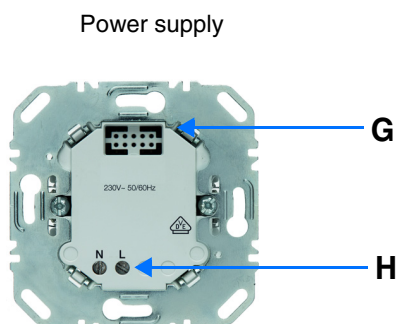
A: Display
B: OFF button
C: OK button

D: Return button
E: ON button

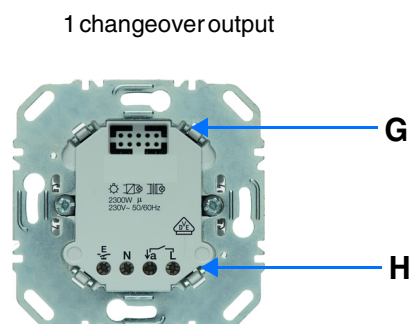


F: Connector

Power module



G: Connector
H: Connection terminal block



1.4 Compatibility between the control module and the power module

The table below shows the possible interconnections between the modules:

Control module	WYC42xQ
Power module	
WUC35	Time switch ON / OFF RF 1 changeover output
WUC18	Time switch ON / OFF RF

1.5 Function Description

1.5.1 Inputs

The input products send lighting and scene controls.

■ Emission of commands

- Lighting control
 - ON / OFF, Priority
 - Dimming
- Scene control
 - Switching between 2 configurable scenes.

1.5.2 ON / OFF output

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 Configuration

These functions are available in the TX100's Standard configuration mode by creating links with the appropriate output devices. For normal operation, the radio transmitters operate in a one-direction mode. Configuration takes place in bi-directional mode.

■ Configuration principle

To switch from one mode to another, perform a factory reset on the product (see chapter 4 factory reset).

→ Activating configuration mode

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

→ To number the radio inputs:

- Go to the Num numbering menu → Inputs → ✓ ,
- Press on the input key to be numbered. A beep will sound when the input is detected, the configurator will automatically allocate a number to it,
- Proceed the same way for the other inputs.

→ To allocate a function to an input key:

- Go to the Num numbering menu,
- Select the number of the input key required,
- Press ,
- Select the function and validate using .

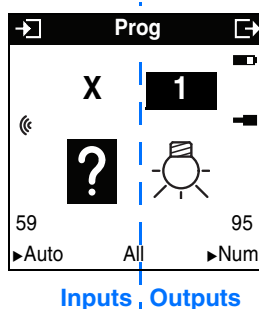
2.2 On / Off Lighting functions

The ON / OFF Lighting functions command the ON / OFF Lighting outputs symbolized by the  icon on the right part of the display.

Refer to the configuration instructions of the various lighting output products for the installation and configuration of these products.

After numbering, the functions and the links appear on the left side of the screen of the TX100.

Selection of the link type to be created



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
	Switch	The Switch function switches the lighting circuit ON or OFF.	Closing the input contact causes the light to turn on. Opening the input contact causes the light to turn off.
	Priority ON	The Priority ON function forces the lighting circuit ON and maintains it ON.	Closing the input contact causes the the output to be prioritised to ON. Opening the input contact causes the output's ON priority to be cancelled. 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. After confirming the link, select the behaviour to follow Priority Cancellation: • 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.	Closing the input contact causes the output priority to be switched to OFF. Opening the input contact causes the cancellation of the OFF output priority. 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. After confirming the link, select the behaviour to follow Priority Cancellation: • 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.

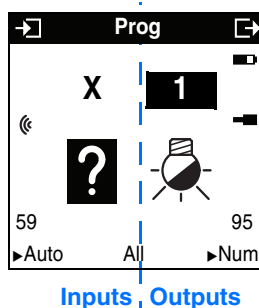
2.3 Dimmer Lighting functions

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

Refer to the configuration manuals for the various dimmer Lighting output devices for information on installing and configuring these devices.

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

Selection of the link type to be created



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:

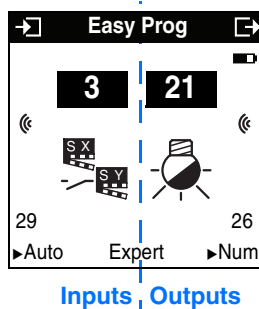
Possible link type	Link description	Output operation
 Dimmer value x% / Dimmer value y%	Toogle between two levels of adjustable dimming x% and y%. Each value can be adjusted: 0% to 100% in 10% steps. The dimming value is defined on the TX100 after validation of the link. Default value: 0%	Opening of the contact → Lighting dimming at x% Closing of the contact → Lighting dimming at y%

2.4 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
	2 Levels scenes The 2 Levels scene function allows for the activation of one scene at the opening of the window and a different scene at the closing of the window. Set value for the x scene: 1 - 8 Set value for the y scene: 1 - 8	Opening of the contact → Activation of the x scene Closing of the contact → Activation of the y scene The status of each output must be defined by parameterising the actuators or regulators. The opening detector does not allow for the recording of the scenes. It only allows for activation.

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

To set a program in Expert mode, it is necessary to have some basic knowledge in KNX (for example, software ETS).

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

On / Off and Dimmer Lighting controls

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.
DimVal	DimmingValue	Dimming command	1 byte	Enables the output level of a dimmer to be set to a defined value.
Forced	Priority	Priority	2 bit	Allows for priority of a Lighting output.

Scene

Designation TX100	Designation ETS	Function	Format	Description
Scene	SceneNumber	Scene	1 byte	Activates the scene by its number.

ON / OFF output

Designation TX100	Function	Format	Description
OnOff	ON / OFF	1 bit	The OnOff object enables the output to be switched.
Timer	Timer	1 bit	The Timer object enables a timer to be activated or stopped.
Forced	Priority	2 bit	The Forced object enables an output to be forced.
Scene	Scene	1 byte	The Scene object enables a scene to be activated or memorised.
IOOnOff	Status indication ON / OFF	1 bit	The IOOnOff object enables the status of the output to be sent each time the status changes.

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 (> 3 seconds) the ON button until the menu appears,
- Select "Installer menu" using the ON or OFF buttons,
- Press the button OK to validate your selection,
- Select "Factory settings" using the ON or OFF buttons,
- Press and hold (> than 10 seconds) the OK button until the  symbol appears.

The product restarts automatically.

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	WYC42xQ
Max. number of group addresses	60
Max. number of links	62

