

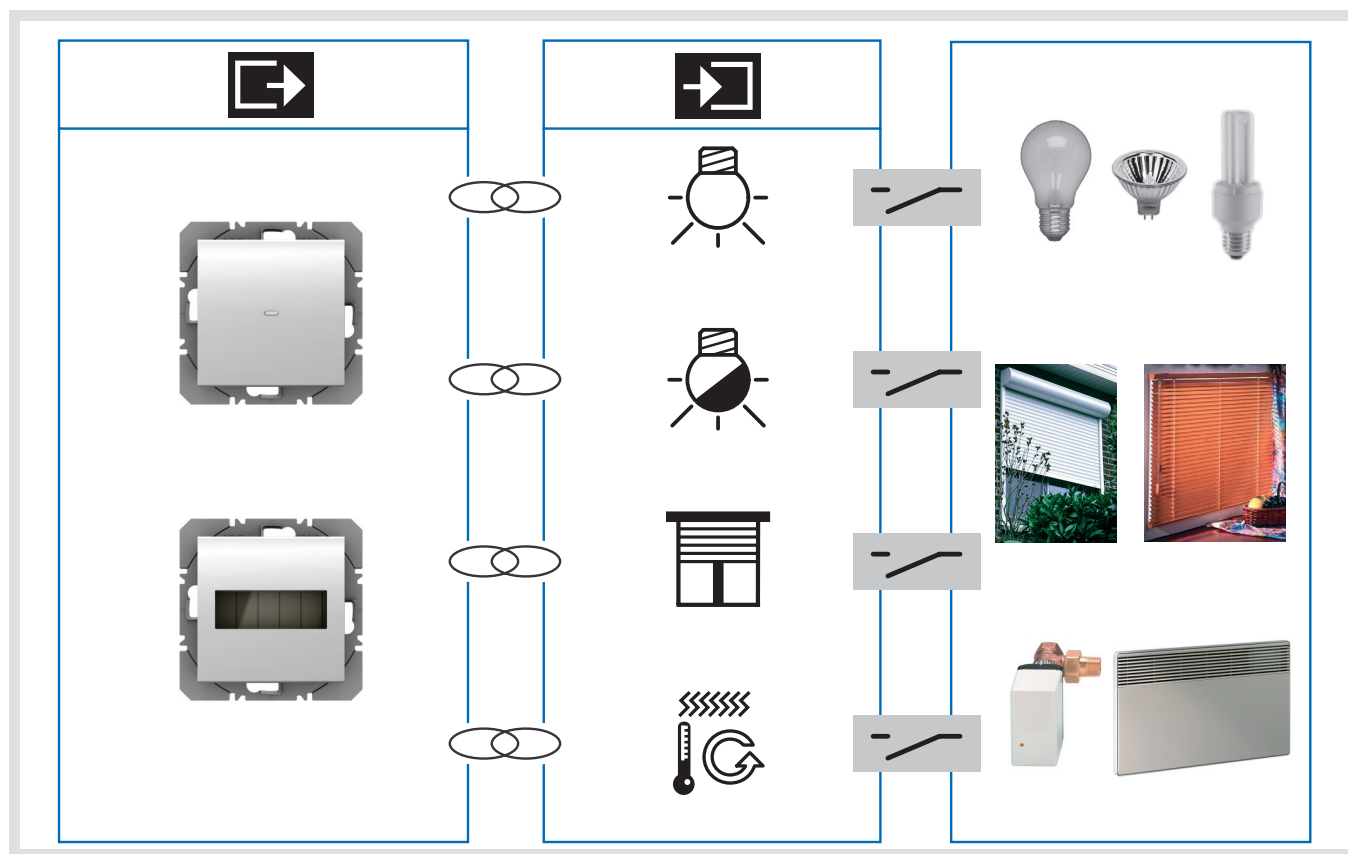
Tebis TX100 Configurator



quicklink  Radio input products

Electrical / Mechanical characteristics: see product user's instructions

	Product reference	Product designation	TX100 version	TP device  RF device 
	WYT11xQB WYT12xQB	1-fold push button RF battery 2-fold push button RF battery	$\geq 2.7.0$	
	WYT11xQS WYT12xQS	1-fold push button RF battery (Solar-powered) 2-fold push button RF battery (Solar-powered)	$\geq 2.7.0$	



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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.

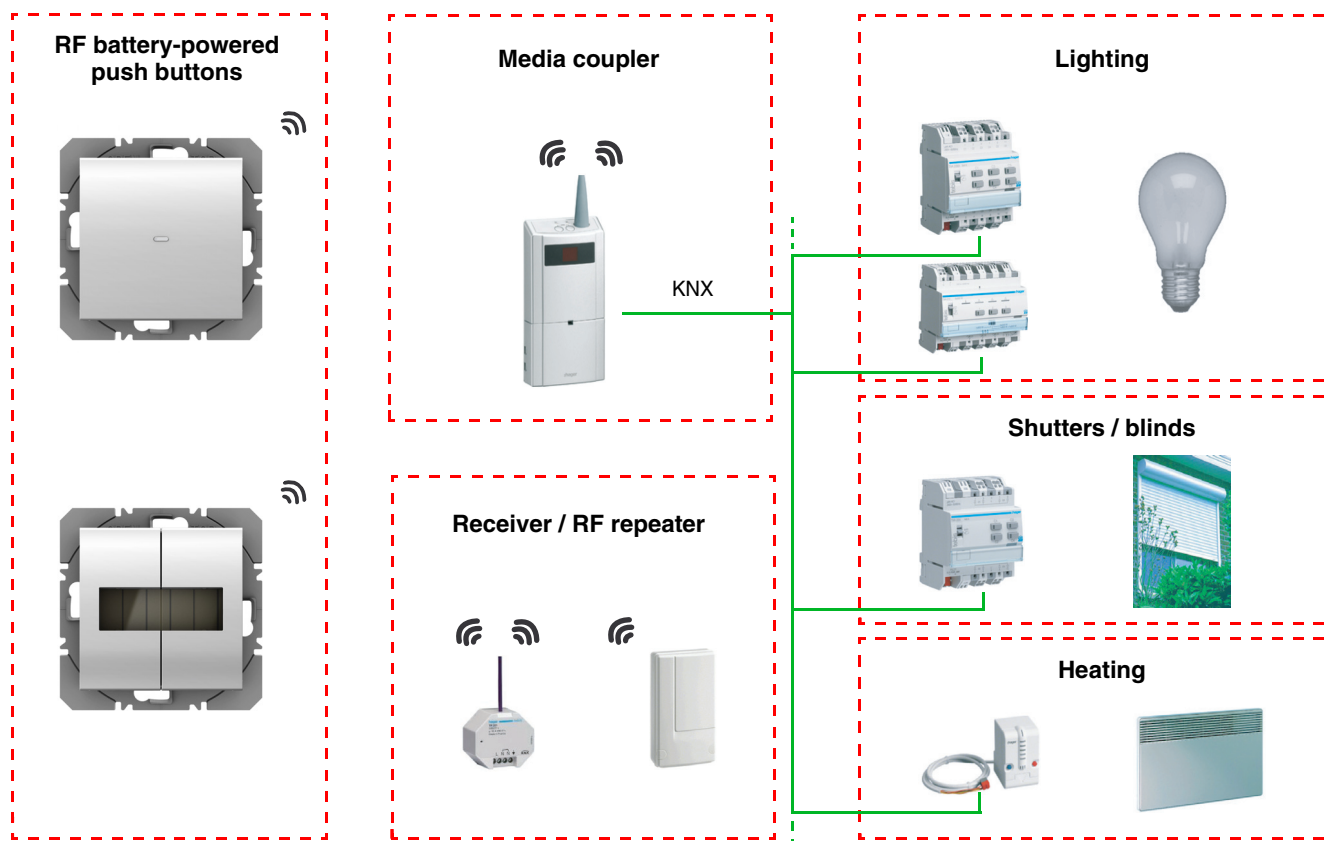
To reuse with TX100, a product that has already been programmed in another installation whatever the initial configuration (quicklink , TX100 or ETS), it is necessary to carry out a factory reset on the device.

Specifics for quicklink radio transmitters

Pressing the **cfg** button activates configuration mode. In this mode, the dialogue product is bi-directional.

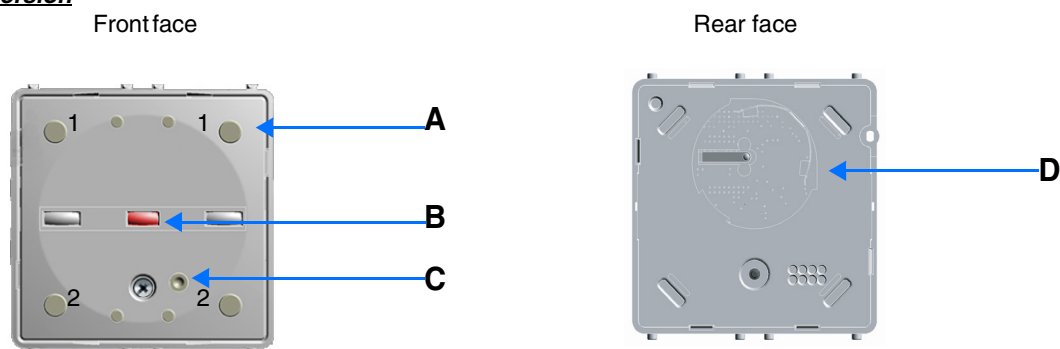
The radio transmitters described in this document are push button type input products only.

1.2 General outline

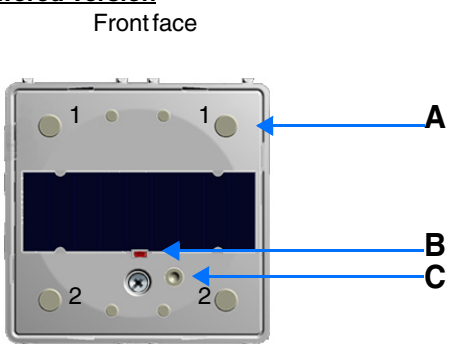


1.3 Description of the product

Battery version



Solar-powered version



A: Button
B: Configuration LED
C: Button cfg

D: Battery 3V Lithium

1.4 Function Description

The radio transmitters enable commands to be transmitted for lighting, shutters and blinds, heating / air-conditioning, and scenes.

■ Emission of commands

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

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

→ Activating configuration mode

- Press successively on each **cfg** push button on each transmitter to be programmed, put it into "listening" mode for configuration. When pressing, the cfg LED of the transmitter concerned shows a solid red light, which will turn off when the cfg push button on the next transmitter is pressed, and so on. All the transmitters selected will then switch to bi-directional mode for the remainder of the configuration. The output from this mode is automatic after 10 min of inactivity or a change to "auto" on the TX100,
- 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:

- Check that configuration mode is still active on your transmitter and press the cfg button again if not,
- Go to the Num numbering menu → Inputs → ✓, (you can use the unidir filter)
- 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:

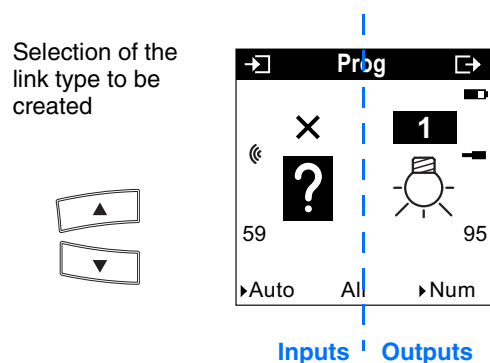
- Go to the Num numbering menu,
- Select the number of the input key required,
- Press ,
- Select the function and validate using .

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.



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.	The activation of the input will cause the light to turn on. Successive activations will keep the light on.
	OFF	The OFF function switches the lighting circuit OFF.	The activation of the input will cause the light to turn off. Successive activations will keep the light off.
	Toggle switch*	The Toggle switch function allows inverting the status of the lighting circuit.	Each activation of the input causes the state of the output contact to be inverted.
	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.
	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.	The activation of the input by a short key-press <1 s causes a timed illumination of the light. Interruption of the time delay: The activation of the input by a long key-press >1 s causes the time delay in progress to be stopped. Increase of the duration of the delay time: Timer commands repeated n times during the first ten seconds after the beginning of the time delay multiply the duration of the time delay by n times the value of the Timer parameter. Restart of the timer: A command given 10 sec after the beginning of the time delay restarts the timer only once.
	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.	The activation by short key-press <1 s causes a timed extinction of the light. Interruption of the time delay: The activation of the input by a long key-press >1 s causes the time delay in progress to be stopped. Increase of the duration of the delay time: Timer commands repeated n times during the first ten seconds after the beginning of the time delay multiply the duration of the time delay by n times the value of the Timer parameter. Restart of the timer: A command given 10 sec after the beginning of the time delay restarts the timer only once.

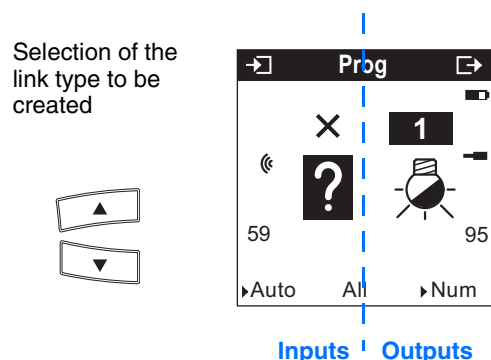
* For normal operation, the radio transmitters operate in a one-direction mode. They momentarily change to bi-directional with each **Toggle switch** command so as to ensure that the output state is inverted.

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.



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.	The activation of the input causes the light at the last memorised level to turn on. Successive activations keep the light at the last memorised level on.
 OFF	The OFF function switches the lighting circuit OFF.	The activation of the input causes the light to be turned off to 0%. Successive activations will keep the light off.
 Toggle switch*	The Toggle switch function allows inverting the status of the lighting circuit.	The activation of the input causes the change between Lighting at the last memorised level and Off at 0%. Successive activations invert the state 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.	The activation of the input by a short key-press causes the change between Lighting at the last memorised level and Off at 0%. The activation of the input by a long press causes the level of lighting to increase or decrease.
 2 push buttons dimmer: Increase	The Increase Function allows increasing the output level.	The activation of the input by a short press causes lighting to return to the last memorised level. The activation of the input by a long press causes the lighting level to increase.
 2 push buttons dimmer: Decrease	The Reduction function allows decreasing the output level.	The activation of the input by a short press causes the light to turn off. The activation of the input by a long press causes the lighting level to decrease.
 Switch	The Switch function switches the lighting circuit ON or OFF.	The closing of the input contact causes the lighting to return to the last memorised level. The opening of the input contact causes the light to turn off at 0%.

Possible link type	Link description	Output operation
 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.	The activation of the input by a short key-press <1 s causes a timed illumination of the light (at the last memorised level). Interruption of the time delay: The activation of the input by a long press >1 s causes the time delay in progress to stop and switching off at 0% (OFF). Increase of the duration of the delay time: Timer commands repeated n times during the first ten seconds after the beginning of the time delay multiply the duration of the time delay by n times the value of the Timer parameter. Restart of the timer: A command given 10 sec after the beginning of the time delay restarts the timer only once.
 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.	The activation by short key-press <1 s causes a timed extinction of the light. Interruption of the time delay: The activation of the input by a long press >1 s causes the time delay in progress to stop and the light to turn on at the last memorised level. Increase of the duration of the delay time: Timer commands repeated n times during the first ten seconds after the beginning of the time delay multiply the duration of the time delay by n times the value of the Timer parameter. Restart of the timer: A command given 10 sec after the beginning of the time delay restarts the timer only once.

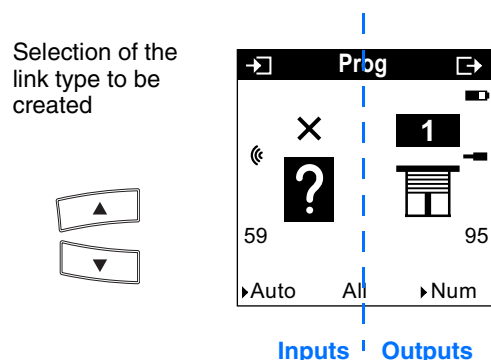
* For normal operation, the radio transmitters operate in a one-direction mode. They momentarily change to bi-directional with each **Toggle switch** command so as to ensure that the output state is inverted.

2.4 Shutters / Blinds function

The Shutters / Blinds function commands Shutters / Blinds outputs symbolized by the  icon in the right part of the display.

Refer to the configuration manuals for the various Shutters / Blinds 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.



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
 Up / Stop	The Up / Stop function allows moving up or stopping a shutter or a blind, or inclining the slats of a blind.	In Shutters mode*: - The activation of the input causes the timed closing of the output contact Up* (Up fonction of a shutter or blind). In Blinds mode*: - The activation of the input by short key-press causes the output contact Up to close briefly (Blind slat angle function), - The activation of the input by long key-press causes the timed closing of the output contact Up (Up fonction of a shutter or blind). When a time delay is in progress, the activation of the input by a short key-press causes the contact to open (Stop function).
 Down / Stop	The Down function allows moving down or stopping a shutter or a blind, or inclining the slats of a blind.	In Shutters mode*: - The activation of the input causes the timed closing of the output contact Down* (Down fonction of a shutter or a blind). In Blinds mode*: - The activation of the input by a short key-press causes the output contact Down to close briefly (Blind slat angle function), - The activation of the input by long key-press causes the timed closing of the output contact Down (Up fonction of a shutter or blind). When a time delay is in progress, the activation of the input by a short key-press causes the contact to open (Stop function).

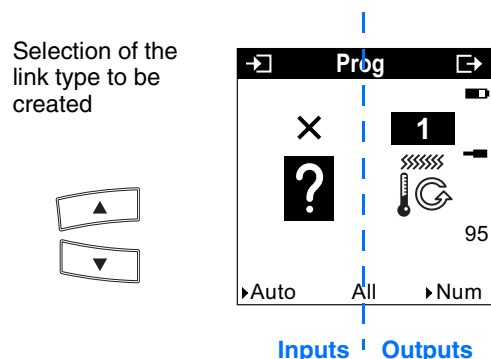
Possible link type	Link description	Link description	Output operation
	Up / Down / Stop	The Up / Down function allows moving up, down or stopping a shutter or a blind with one single push button.	Only the Shutter mode functions are active. The blind Slat angle function is not accessible. Successive activations cause the Shutter mode to function following Up cycles (delayed closing of the Up output) Stop (opening of the output contacts) Down (delayed closing of the Down output)*.

* The modes and delay durations are parameterisable (see the TX100 configuration manuals for the Shutter / Blind output actuators).

2.5 Heating / Air-Conditioning function

The Heating / Air-Conditioning functions command a thermostat or a regulator symbolized by the  icon on the right part of the display.

Refer to the thermostat, ambiance controller and regulator configuration manuals for information on installing and configuring these devices.



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:

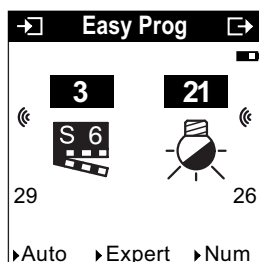
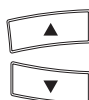
Possible link type	Link description	Output operation
	Override in comfort mode The function "Override in comfort mode" activates the Comfort mode.	Closing the input contact causes Comfort mode to be activated. The effect of this command is cancelled by any other mode activation command.
	Override in Economy mode The function "Override in economy mode" activates the economy mode.	Closing the input contact causes Night set-point mode to be activated. The effect of this command is cancelled by any other mode activation command.
	Frost protection override The Frost protection override function is used to activate the Frost protection function in the case of heating or the Protection mode in the case of air conditioning.	Closing the input contact causes the Frost protection mode to be activated (Protection in case of air-con). The effect of this command is cancelled by any other mode activation command.
	Auto (Return home) The Auto function cancels the override in progress to return to the set point corresponding to Automatic mode.	Closing the input contact causes Auto mode to be activated. The effect of this command is cancelled by any other mode activation command.
	Standby override The Standby override function is used to activate Standby mode.	Closing the input contact causes Standby mode to be activated. The effect of this command is cancelled by any other mode activation command.

2.6 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

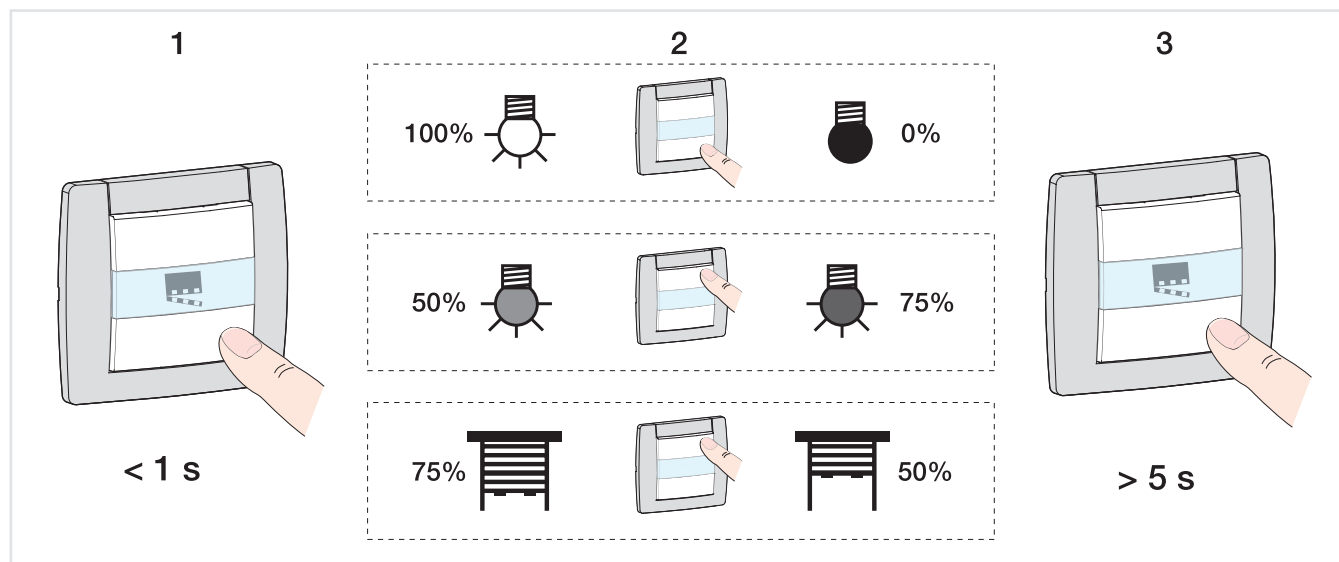


Possible link type	Link description	Output operation
 ... 	Scene 1 to 8 The Scene function groups a set of outputs. These outputs can be set to an adjustable predefined status. Pressing a push button activates a scene. Each output may be integrated into 8 different scenes.	The status of each output can 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.



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

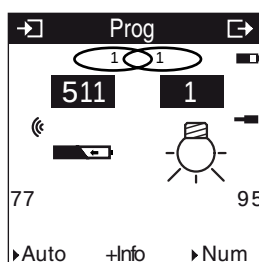
3.1 Mode + Info

Low battery

For the battery-powered radio transmitters, an additional entry provides information: Low battery. It is indicated by the  symbol on the TX100 screen. This input is numbered in decreasing order starting from 511. It is accessible from the "+ Info" filter in TX100 "prog" mode.

Create a link "Low battery"

- Press the  or  keys to select the low battery input and an output,
- Press  for a long time to confirm the link.



3.2 Expert mode

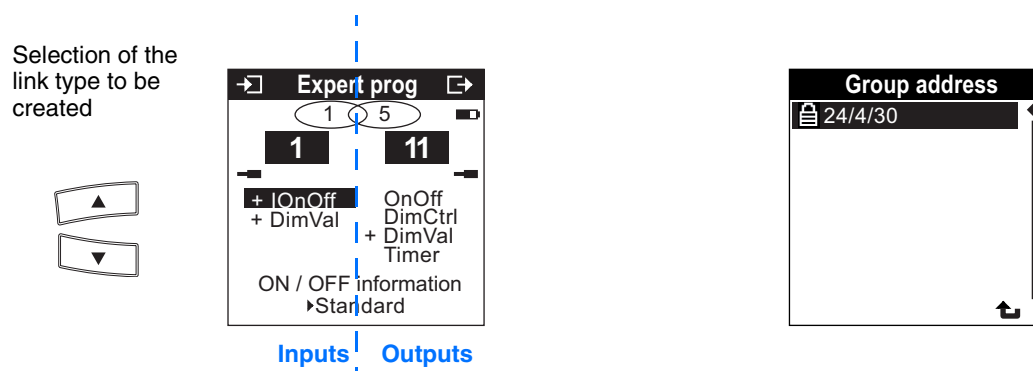
General points

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.
DimCtrl	DimmingCtrl	Dimming command	1 bit	Allows changing the output level of a dimmer.
Timer	TimedStartstop	Timer	EIS1 1 bit	Allows you to activate or interrupt the timer.

Shutters / Blinds control

Designation TX100	Designation ETS	Function	Format	Description
StepStop	StepStop	Slat angle	1 bit	Sends a slat angle command for a blind.
UpDown	UpDown	Up / Down	1 bit	Sends an Up or Down command for a roller shutter or a blind.
IUpDown	InfoMoveUpDown	Up / Down information	1 bit	Provides the status of the Up / Down output (control 1 BP).

Heating / Air-Conditioning control

Designation TX100	Designation ETS	Function	Format	Description
HvacMode	HvacMode	Heating mode	1 byte	Activates a heating or air-conditioning mode (Comfort, Reduced, ...).

Scene

Designation TX100	Designation ETS	Function	Format	Description
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	WYT11xQS / QB	WYT12xQS / QB
Max. number of group addresses	86	79
Max. number of links	95	95

