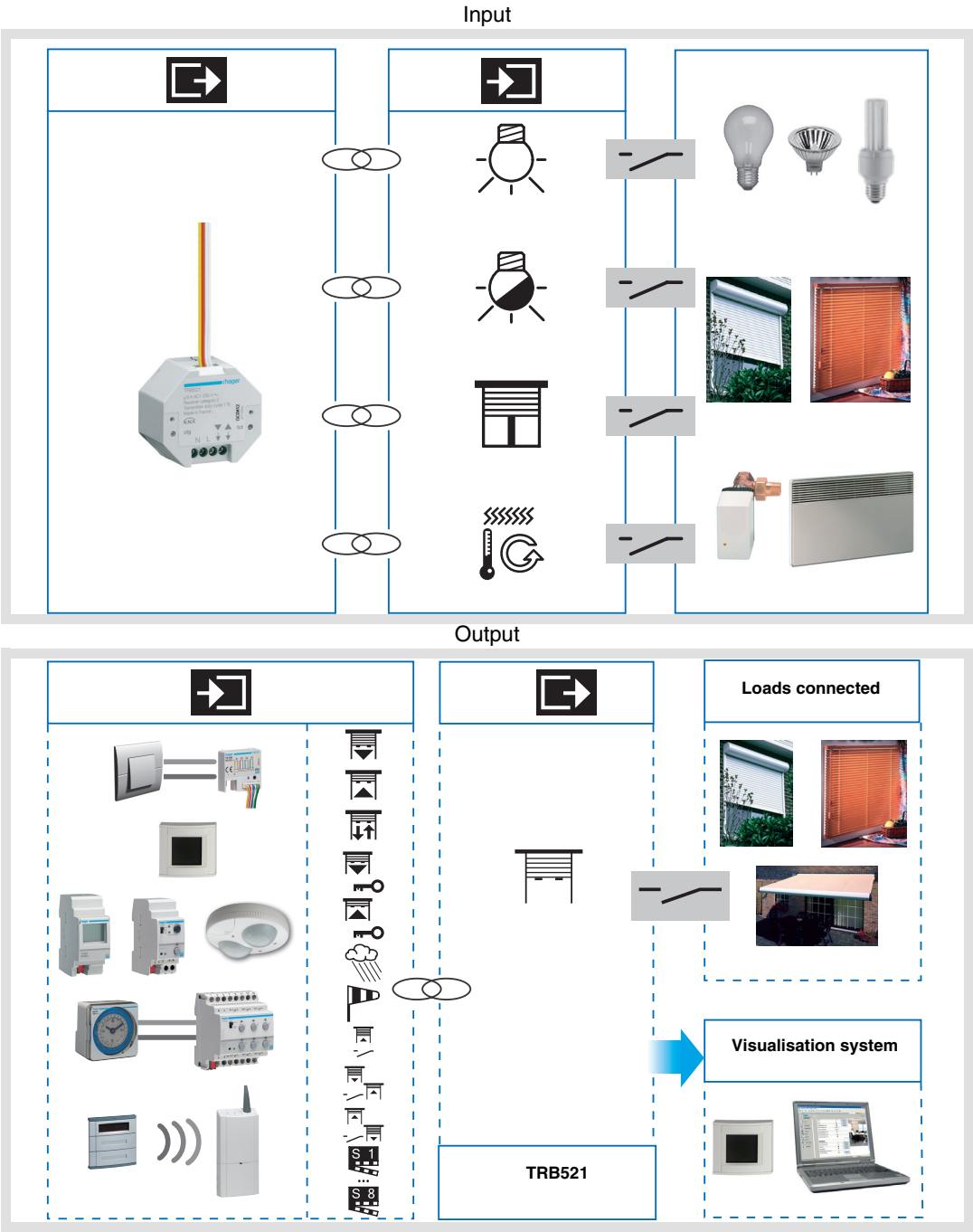
Tebis TX100 Configurator

quicklink RF shutter/blind input/output product

Electrical / Mechanical characteristics: see product information

	Product reference	Product designation	TX100 version	TP device RF device
	TRB521	Flush-fitting 2 input module + 1 shutter blind output	≥ 2.5.1	



Summary

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 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: ≥ 1.2.5
- Plug-in: ≥ 1.0.11

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

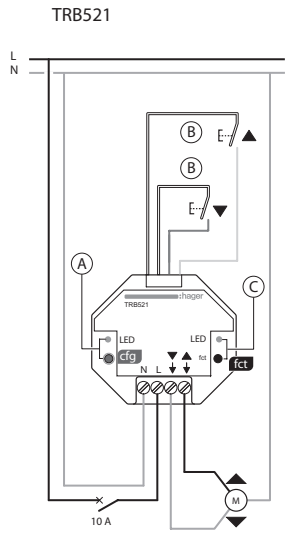
Within the same installation, a single configuration mode may be used.

To reuse with TX100, a product that has already been programmed in another installation whatever the inital configuration (quicklink, TX100 or ETS), it is necessary to carry out a factory reset on the device.
Fot the combined input / output products, the factory reset will reinstall the local commands (the input of the product controls the load connected with the product). To associate a different function to these inputs with the TX100, the local control link must dirst be deleted (select the input and output numbers for the product and delete the link).

Specifics of the quicklink radio emitters / receivers:
All the shutter/blind emitters/receivers are delivered ready-to-use (pre-configured). The product inputs control its output for the most commonly used function (Push button 1 = Up, Push button 2 = Down). To use the inputs with a different function, simply delete the existing link using the TX100 before reprogramming this input.

1.2 Function Description

The TX100 is used to re-configure push buttons 1 and 2 (Up, Down).



A Button and LED configuration "cfg"
B Push button 1 and 2
C Button and LED function "fct"

1.2.1 Inputs

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

Emission of commands

The following functions can be associated with the emitters:

- Lighting control:
  Toggle switch, ON, OFF, ON / OFF, Timer, Priority
  1 button or 2 button dimmer
- Shutters / Blinds control:
  Up, Down, Stop, Slat angle, Priority, Alarm 1 (Wind), Alarm 2 (Rain)
  1 button or 2 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 control

1.2.2 Outputs

The TX100 enables the output for the Rolling shutters / Blinds applications to be configured individually.

The main functions are the following:

Up / Down

The Up / Down Function allows moving up or down a shutter, a blind with inclinable slats, an awning, a Venetian blind, etc. This function also allows opening and closing electric curtains. The command may come from switches, pushbuttons or automatic controls.

Slat angle / Stop

The Slat angle / Stop function allows inclining the slats of a blind or stopping its current movement. This function allows modifying the occultation or the direction of the light beams coming from outside. The command comed from push buttons: Short key-press on the Up / Down push button.

Priority

The Priority function allows forcing a shutter or a blind into a predefined position. This command has priority, but at a lower level than the alarms. No other command is taken into account if a priority is active. Only end of priority or alarm commands will be taken into consideration.

Alarm 1 (Wind) and Alarm 2 (Rain)

The Alarm functions allow putting a shutter or a blind in a parametrisable predefined status. These functions have the highest priority. No other command is taken into consideration if an Alarm is active. Only the end of the alarm enables again the other commands.

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 1 Bit status indication function is used to send the last movement of the shutter or blind.

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 emitters / receivers always function in bidirectional 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.

➜ 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 configurer will automaticallu allocate a number to it,
- Proceed the same way for the other inputs.

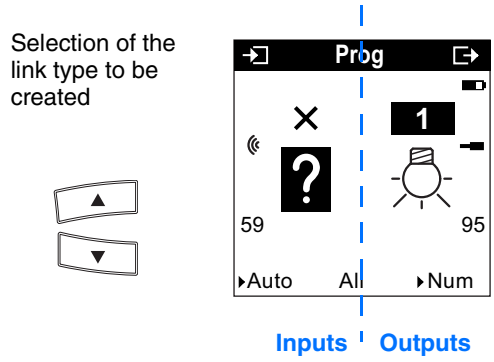
➜ To allocate a function to an input key:

- 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.

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.	Press on the push button ➜ Closing of the output contact Pressing repeatedly keeps the output contact closed.
	OFF	The OFF function switches the lighting circuit OFF.	Press on the push button ➜ Opening of the output contact Pressing repeatedly keeps the output contact open.
	Toggle switch	The Toggle switch function allows inverting the status of the lighting circuit.	Press on the push button ➜ Status change of the output contact Pressing repeatedly inverts the status of the output contact each time.

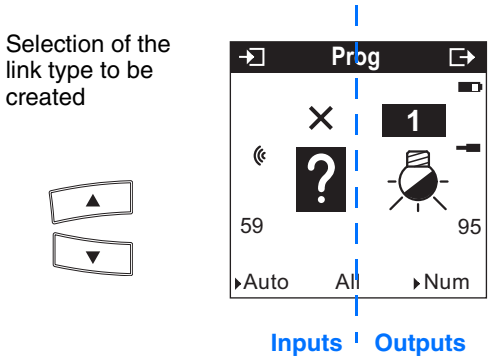
Possible link type		Link description	Output operation
	Switch	The Switch function switches the lighting circuit ON or OFF.	Press on the push button ➜ Closing of the output contact Releasing the push button ➜ Opening of the output contact
	Timer ON	The Timer ON function switches the lighting circuit ON 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 ➜ Delayed closing of the output contact Interruption of the time delay: Prolonged press (>1 s) on the push button ➜ Current time delay is stopped and the output contact opens (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.	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 ➜ Time delay stopped while in progress and closure of the output contact (ON) 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.
	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.

Possible link type		Link description	Output operation
	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.

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:

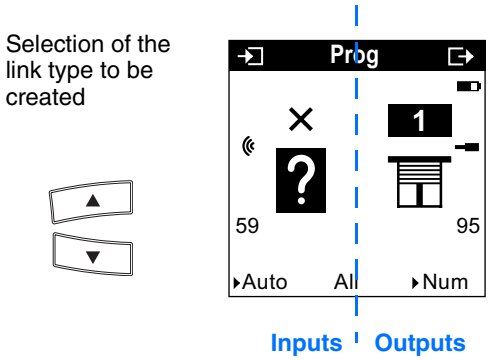
Possible link type		Link description	Output operation
	ON	The ON function switches the lighting circuit ON.	Press on the push button ➜ the light switches ON at the last level stored Pressing repeatedly keeps the light on the last level stored.
	OFF	The OFF function switches the lighting circuit OFF.	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
	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%

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.	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.	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.

2.4 Shutters / Blinds function

The Shutters / Blinds function commands Shutters / Blinds outputs symbolized by the icon in 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
	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*: • Closing the input contact with a long key-press on the Up push button ➜ Delayed closing of the Up output contact* In Blinds mode*: • Closing the input contact with a short key-press on the Up push button ➜ Brief closing of the Up output contact • Closing the input contact with a long key-press on the Up push button ➜ Delayed closing of the Up output contact* When a time delay is in progress, closing the input contact with a short key-press on the push button ➜ Opening of the contact (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*: • Closing the input contact with a long key-press on the Down push button ➜ Delayed closing of the Down output contact* In Blinds mode*: • Closing the input contact with a short key-press on the Down push button ➜ Short closing of the output contact Down • Closing the input contact with a long key-press on the Down push button ➜ Delayed closing of the Down output contact When a time delay is in progress, closing the input contact with a short key-press on the push button ➜ Opening of the contact (Stop function)
	Up / Down / Stop	The Up / Down function allows moving up, down or stopping a shutter or a blind with one single push button.	Closing the input contact by pressing the push button ➜ Shutter mode-type operation according to Up, Stop, Down.
	Down via switch	The Down function enables a rolling shutter or blind to be lowered via a switch.	Closure of the input contact ➜ Delayed closing of the Down output contact* Opening of the input contact ➜ No action

Possible link type		Link description	Output operation
	Up via switch	The Up function enables a rolling shutter or blind to be raised via a switch.	Closure of the input contact ➜ Delayed closing of the Up output contact* Opening of the input contact ➜ No action
	Down / Up via switch	The Down / Up function enables a rolling shutter or blind to be raised or lowered via a switch.	Closure of the input contact ➜ Delayed closing of the Down output contact* Opening of the input contact ➜ Delayed closing of the Up output contact*
	Up / Down via switch	The Up / Down function enables a rolling shutter or blind to be raised or lowered via a switch.	Closure of the input contact ➜ Delayed closing of the Up output contact* Opening of the input contact ➜ Delayed closing of the Down output contact*
	Up priority	The Priority up function forces the Up movement of a shutter or a blind.	Closure of the input contact ➜ Activation of the priority and timed closing of the Up output contact* No other command is taken into account if a priority is active. Only end of priority or alarm commands will be taken into consideration. Opening of the input contact ➜ Priority end The status after the end of the priority is defined by a parameter during programming of the link.**
	Down priority	The Down Priority function forces the Down movement of a shutter or a blind.	Closure of the input contact ➜ Activation of the priority and timed closing of the Down output contact* No other command is taken into account if a priority is active. Only end of priority or alarm commands will be taken into consideration. Opening of the input contact ➜ Priority end The status after the end of the priority is defined by a parameter during programming of the link.**
	Wind alarm	The Rain Alarm function allows placing the shutter or the blind in a defined position when the alarm is activated.	Closure of the input contact ➜ Activation of the Wind alarm: • The position of the shutter or blind is defined by a parameter when programming the link,** • No other command is taken into consideration if an Alarm is active. Only end of alarm commands will be taken into consideration. Opening of the input contact ➜ Alarm end
	Rain alarm	The Rain Alarm function allows placing the shutter or the blind in a defined position when the alarm is activated.	Closure of the input contact ➜ Activation of the Rain alarm: • The position of the shutter or blind is defined by a parameter when programming the link,** • No other command is taken into consideration if an Alarm is active. Only end of alarm commands will be taken into consideration. Opening of the input contact ➜ Alarm end

* The modes and delay durations are parameterisable.
** See additional parameters for priority and alarm.

2.5 Rolling shutter blind output parameters

■ Parameters

A. General parameters

The general parameters are defined in the Product Maintenance / Product information of the TX100 and apply to all the outputs.

Designation	Description	Values
Down Com. length	This parameter is defined during the closing of the contact for a complete down or up movement.	1 s to 20 s in 1 s steps. 20 s to 2 min in 5 s steps. 2 min to 8 min in 15 s steps. Default value: 2 min.
Mode	This parameter enables a shutter or blind function to be selected.	Blind. shutter. Default value: Blind.
Slat angle step	This parameter allows defining the closing time of the contacts to carry out one slat step: 50 ms x multiplier.	multiplier: 3.

B. Additional parameters for priorities and alarms

These parameters are defined during programming links for priorities and alarms.

Linking	Description of the Action parameter	Actions
 Up priority	This parameter defines the position of the rolling shutter or blind at the end of the Up priority.	Maintain, Inversion. Default value: Maintain.
 Down priority	This parameter defines the position of the rolling shutter or blind at the end of the Down priority.	Maintain, Inversion. Default value: Maintain.
 Wind alarm	This parameter defines the position of the rolling shutter or blind when the alarm is active.	Maintain (Not active), Up, Down. Default value: Maintain.
 Rain alarm	This parameter defines the position of the rolling shutter or blind when the alarm is active.	Maintain (Not active), Up, Down. Default value: Maintain.

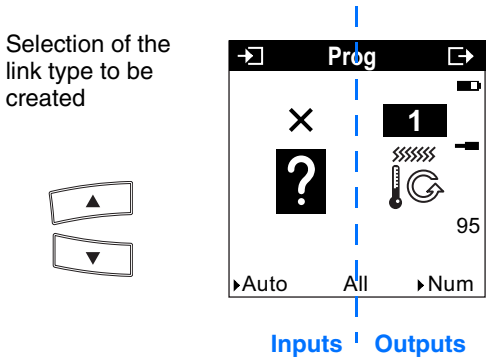
C. Default value

Parameter	Description	Non-modifiable default value
Time delay for direction inversion	This parameter defines the stopping time of the shutter or blind before reversing the direction of rotation: the 2 output contacts are open.	600 ms
Total number of slat angles	This parameter defines the total number of basic slat angles for the slats to pass from the position angled toward the bottom to the position angled toward the top.	Total number: 12
Position after wind alarm	This parameter defines the position of the rolling shutter or blind after the wind alarm.	Maintains the position
Position after rain alarm	This parameter defines the position of the rolling shutter or blind after the rain alarm.	Maintains the position
Status after download	This parameter defines the position of the rolling shutter or blind after a download.	Maintains the position

2.6 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.

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
	Comfort / Night set-point	The function Comfort / Night set-point enables switching between the Comfort and Night set-point modes.	The associated input contact is a switch or an output from a programming clock. Closing the contact causes Comfort mode to be activated. Opening the contact causes Night set-point mode to be activated. The effect of this command is cancelled by any other mode activation command.
	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.
auto	Frost protection / Auto	The Frost protection / Auto function enables switching between the Frost protection and Automatic modes.	The associated input contact is a switch or an output from a programming clock. Closing the contact causes the Frost protection mode to be activated. Opening the contact causes a return to Automatic mode. 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 functon 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.

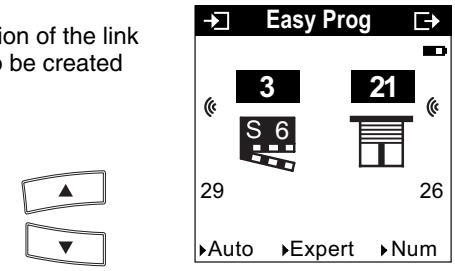
Possible link type		Link description	Output operation
	Auto (Return home)	The Auto function cancels the override in progress to return to the set point corresponding to Automatic mode.	Closing the input contact causes Auto mode to be activated. The effect of this command is cancelled by any other mode activation command.
	Standby override	The Standby override funtion 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.
	Comfort / Standby	The Comfort / Standby function enables switching between the Comfort and Standby modes.	Closing the input contact causes the setpoint to switch between Comfort and Standby. The setpoint changes each time the input contact is closed. The effect of this command is cancelled by any other mode activation command.
	Comfort Priority	The Comfort Priority function is used to activate and maintain Comfort mode.	The associated input contact is a switch or an output from a programming clock. Closing the contact causes the activation and maintenance of Comfort mode. Opening the contact causes the cancellation of the priority and the return to the normally active mode. The Comfort Priority function is a function with a higher priority than the override or time delay commands. Only a cancellation command for the priority can end the priority and authorise other commands to be followed again. The effect of the command is cancelled by any other priority command (Night set-point, Frost protection) or by a Stop or Windows contact command.
	Priority frost protection	The Frost protection override function is used to activate the Frost protection funcion in the case of heating or the Protection mode in the case of air conditioning.	The associated input contact is a switch or an output from a programming clock. Closing the contact causes Frost protection mode to be activated and maintained (Protection in case of air-con). Opening the contact causes the cancellation of the priority and the return to the normally active mode. The Priority frost protection function is a function with a higher priority than override or time delay commands. Only a cancellation command for the priority can end the priority and authorise other commands to be followed again. The effect of the command is cancelled by any other priority command (Night set-point, Frost protection) or by a Stop or Windows contact command.

2.7 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

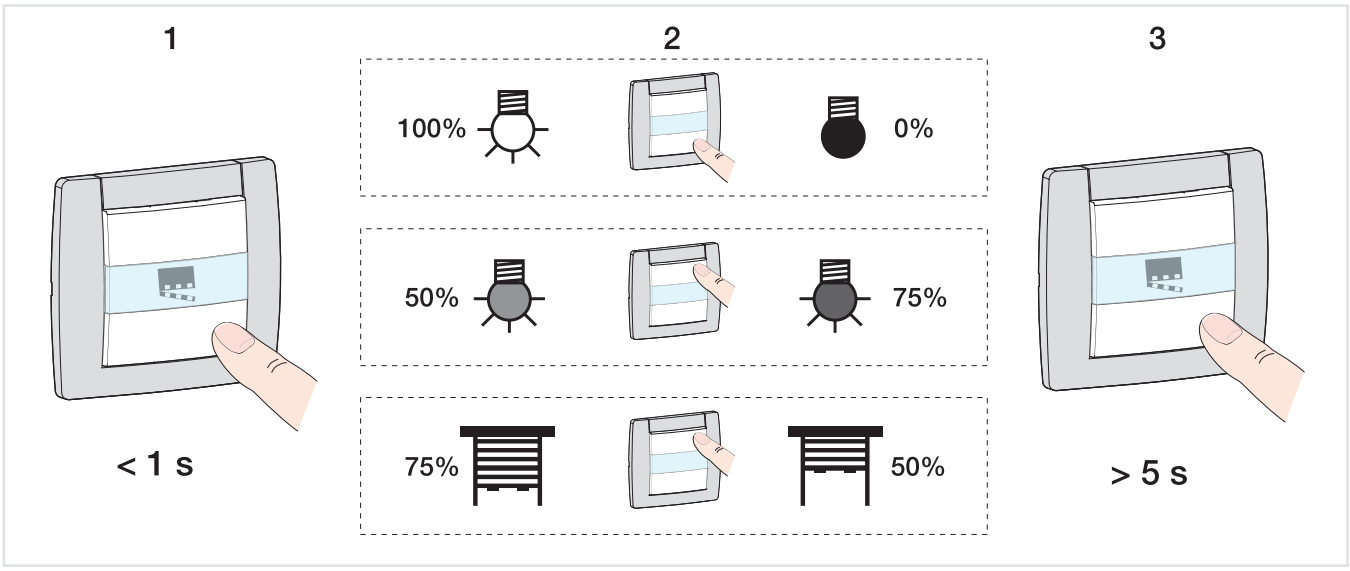


Possible link type		Link description	Output operation
S 1 ... S 8	Scene 1 to 8	The Scene function groups a set of outputs. These outputs can be set to an adjustable predefined status. Pressing a push button activates a scene. Each output may be integrated into 8 different scenes.	The status of each output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



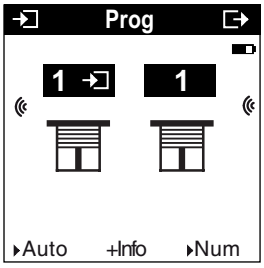
2.8 Repeater Function

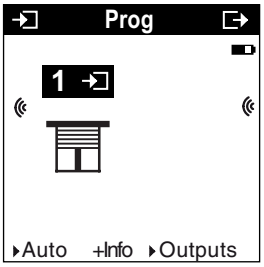
It increases the radio range of the system by re-sending the messages received by the product. Inactive by default, the Repeater function can be activated from the Product Management / TX100 Repeater menu.

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.

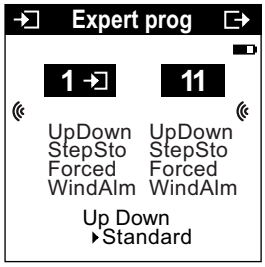
3.2 Expert mode

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

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.
IOnOff	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.
Forced	Forced	Priority	EIS2 2 bit	Forces an output.

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).
Forced	Forced	Priority	EIS2 2 bit	Forces an Up or Down command.
Wind Alm	Wind Alm	Wind alarm	1 bit	The **WindAlm** object enables the wind alarm to be activated.
RainAlm	RainAlm	Rain alarm	1 bit	The **RainAlm** object enables the rain alarm to be activated.

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, ...).
IOnOff	InfoOn/Off	ON / OFF information	EIS1 1 bit	Indicates the output's status.
Timer	TimedStartstop	Timer	EIS1 1 bit	Starts a delayed deviation.
Forced	Forced	Priority	EIS2 2 bit	Forces a heating or air-conditioning mode.

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 device to be returned to its initial configuration (configuration when it came out of the factory). 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 inital configuration (quicklink, TX100 or ETS), it is necessary to carry out a factory reset on the device.
Fot the combined input / output products, the factory reset will reinstall the local commands (the input of the product controls the load connected with the product). To associate a different function to these inputs with the TX100, the local control link must dirst be deleted (select the input and output numbers for the product and delete the link).

5. Characteristics

Product	TRB521
Max. number of group addresses	83
Max. number of links	90