hager

Tebis TX100 Configurator

LED Input / Output functions
Electrical / Mechanical characteristics: see product user's instructions
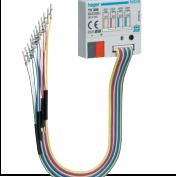
Product reference	Product designation	TX100 version	TP device ▬▬ RF devices ((
TXB322	Embedded module: 2 inputs / 2-output module LED (Status indication)	≥ 2.4.0	▬▬
TXB344	Embedded module: 4 inputs / 4-output module LED (Status indication)	≥ 2.4.0	▬▬

Input module KNX / EIB

Output modules KNX / EIB

LED connected to the output
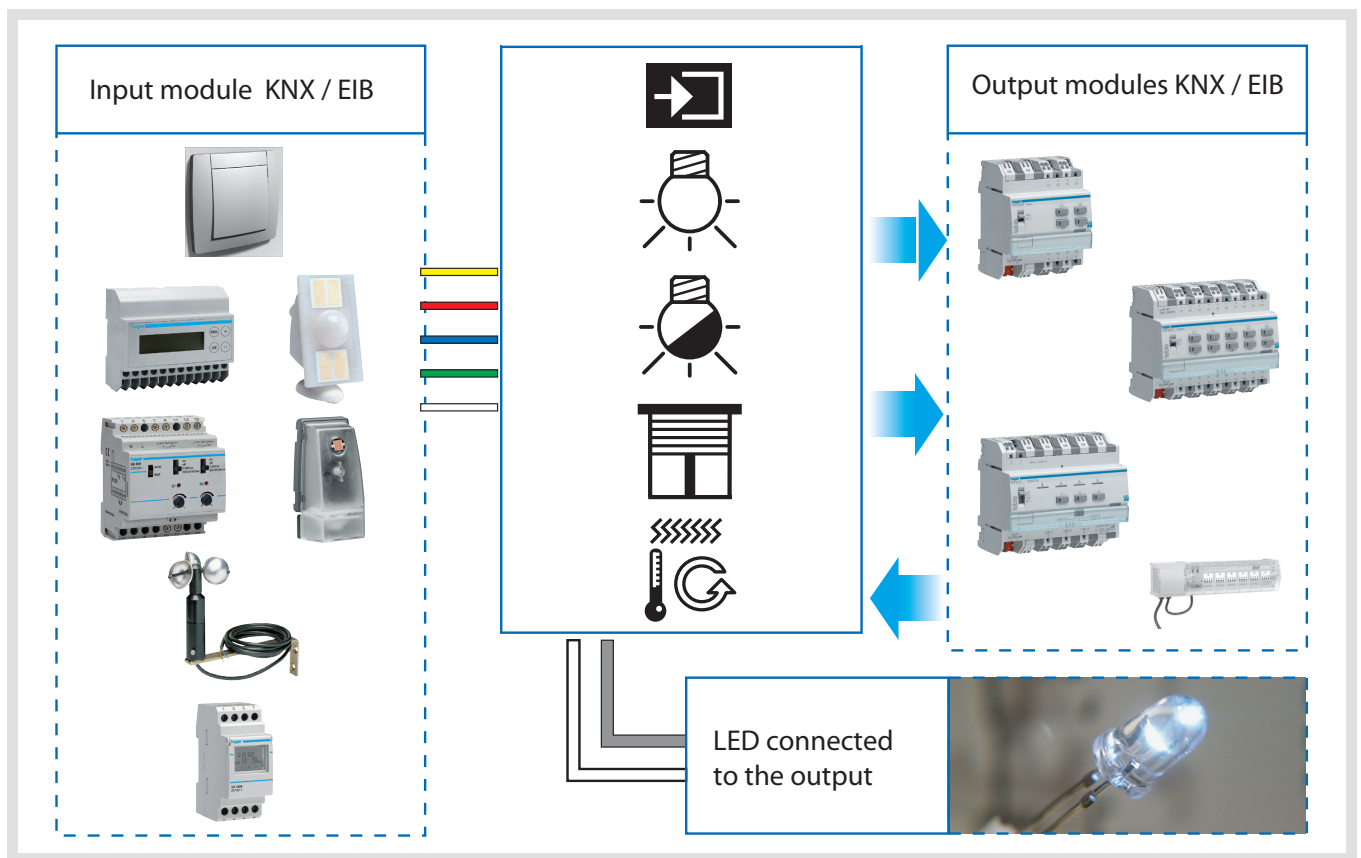
Summary

1. Presentation of the functions

The main functions are the fllowing:

■ Sending commands

The pushbuttons are used to issue commands for lighting, rolling shutters and blinds, heating / air conditioning and scenarios.

■ Priority

The Priority function sends priority-start or priority-stop commands.
The Priority action depends on the type of application controlled: lighting, blinds, heating, etc.

■ Scene

The Scene function sends group controls to different kinds of outputs to create ambiences or scenarios (leaving home scenario, reading ambience, etc.).

■ Status indicated by LED output

Signalling by LED outputs allows the status of an electric circuit to be viewed.

2. Configuration and parameterising of the Push button functions (Standard mode)

The push buttons are used to send command on the bus and perform the following functions:
- Lighting control
    Toggle switch, ON, OFF, ON / OFF, Timer.
    1 or 2 button dimmer.
- Shutters / Blinds control
    Up, Down, Stop, Blind slat angle.
- Heating / Air-Conditioning control
    Comfort, Standby, Night set-point, Frost protection, Time limited comfort, Presence / Standby.
- Scene controls

These functions are available in the TX100's Standard configuration mode by creating links with the appropriate output devices.

2.1 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 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

Inputs ¦ Outputs

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

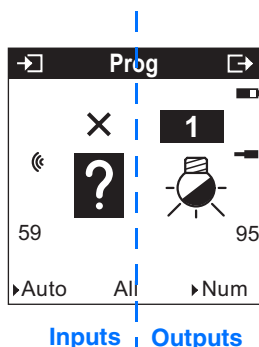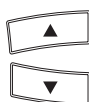| Possible link type		Link description	Output operation
	ON	The ON function switches the lighting circuit ON.	Press on the push button ➜ Closing of the output contact. Pressing repeatedly keeps the output contact closed.
	OFF	The OFF function switches the lighting circuit OFF.	Press on the push button ➜ 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.
	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 opening of the output contact. 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). 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.

⚿	Priority ON	The Priority ON function forces the lighting circuit ON and maintains it ON.	Press on the push button ➜ Output ON priority. Successive presses allow you to switch between Priority ON and Priority cancellation.
			
			Priority is the function with the highest priority. Only a priority-end control ends the priority and re-authorizes the bus commands to be taken into consideration.
			
			After confirming the link, select the behaviour to follow Priority Cancellation:
			  - Maintain: the contact is maintained in the same status as during Priority,
			  - Inversion: the contact is inverted in relation to the status active during Priority.
			A priority is also cancelled by another Priority command.
			The indicator associated with the push button indicates whether a Priority is active or not, it does not indicate the status of the output.

⚿	Priority OFF	The OFF Priority function forces the lighting circuit OFF and maintains it OFF.	Press on the push button ➜ Output OFF priority. Successive presses allow you to switch between Priority OFF and Priority cancellation.
			
			Priority is the function with the highest priority. Only a priority-end control ends the priority and re-authorizes the bus commands to be taken into consideration.
			
			After confirming the link, select the behaviour to follow Priority Cancellation:
			  - Maintain: the contact is maintained in the same status as during Priority,
			  - Inversion: the contact is inverted in relation to the status active during Priority.
			A priority is also cancelled by another Priority command.
			The indicator associated with the push button indicates whether a Priority is active or not, it does not indicate the status of the output.

2.2 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

Inputs ¦ Outputs

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

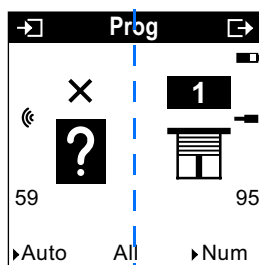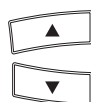| Possible link type		Link description	Output operation
	ON	The ON function switches the lighting circuit ON.	Press on the push button ➜ the light switches ON at the last level stored. Pressing repeatedly keeps the light on the last level stored.
	OFF	The OFF function switches the lighting circuit OFF.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

Possible link type		Link description	Output operation
	Priority ON	The Priority ON function forces the lighting circuit ON and maintains it ON.	Press on the push button ➜ Output ON priority. Successive presses allow you to switch between Priority ON and Priority cancellation. The ON priority switches the light ON to 100%, whatever the level stored. Priority is the function with the highest priority. Only a priority-end control ends the priority and re-authorizes the bus commands to be taken into consideration. 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. A priority is also cancelled by another Priority command. The indicator associated with the push button indicates whether a Priority is active or not, it does not indicate the status of the output.
	Priority OFF	The OFF Priority function forces the lighting circuit OFF and maintains it OFF.	Press on the push button ➜ Output OFF priority. Successive presses allow you to switch between Priority OFF and Priority cancellation. The OFF priority switches the light off to 0%, whatever the stored level. Priority is the function with the highest priority. Only a priority-end control ends the priority and re-authorizes the bus commands to be taken into consideration. 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. A priority is also cancelled by another Priority command. The indicator associated with the push button indicates whether a Priority is active or not, it does not indicate the status of the output.

2.3 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 Roller 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.

Selection of the link
type to be created

Inputs | Outputs

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*: - Press on the push button ➜ Delayed closing of the Up output contact* (Shutter or blind up function). In Blinds mode*: - Short press on the push button ➜ Brief closing of the Up output contact (Blind slat orientation function), - Long press on the push button ➜ Delayed closing of the Up output contact (Shutter or blind up function). If a time delay is running, a short 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*: - Press on the push button ➜ Delayed closing of the Down output contact* (Down function for a roller shutter or a blind). In Blinds mode*: - Short press on the push button ➜ Short closing of the output contact Down (Blind slat orientation function), - Long press on the push button ➜ Delayed closing of the Down output contact (Down function for a roller shutter or a blind). If a time delay is running, a short 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.	Only the rolling shutter mode functions are active. The blind slat orientation function is not accessible. Repeated key press ➜ Rolling shutter mode type operation according to the Up cycle (delayed closure of the Up output), Stop cycle (opening of the output contacts) and Down cycle (delayed closure of the Down output)*.

Possible link type		Link description	Output operation
	Up priority	The Priority up function forces the Up movement of a shutter or a blind.	Press on the push button ➜ Delayed closing of the Up output contact (Shutter or blind up function)*. Priority is the function with the highest priority. Only a priority-end control ends the priority and re-authorizes the bus commands to be taken into consideration. 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 (➜ Shutter Down). A priority is also cancelled by another Priority command.
	Down priority	The Down Priority function forces the Down movement of a shutter or a blind.	Press on the push button ➜ Delayed closing of the Down output contact (Down function for a roller shutter or a blind)*. Priority is the function with the highest priority. Only a priority-end control ends the priority and re-authorizes the bus commands to be taken into consideration. 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 (➜ Shutter up). A priority is also cancelled by another Priority command.
	Up	The Up function raises a roller shutter or a blind.	Closure of the input contact causes the delayed closure* of the Up output contact (Shutter or blind up function).
	Down	The Down function lowers a roller shutter or a blind.	Closure of the input contact causes the delayed closure* of the Down output contact (Down function for a roller shutter or a blind).
	Up / Down	The Up / Down function raises or lowers a roller shutter or a blind.	Closure of the input contact causes the delayed closure* of the Up output contact (Shutter or blind up function). Opening of the input contact causes the delayed closure* of the Down output contact (Down function for a roller shutter or a blind).
	Down / Up	The Down / Up funtion is used to raise or lower a rolling shutter or blind.	Closure of the input contact causes the delayed closure* of the Down output contact (Shutter or blind up function). the opening of the intput contact causes the delayed closure* of the Up output contact (Down function for a roller shutter or a blind).
	Wind alarm	The Wind 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.

Possible link type		Link description	Output operation
☁🌧	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 the TX100 configuration manuals for the Roller shutter / Blind output actuators).

2.4 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.

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

Inputs ¦ **Outputs**

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

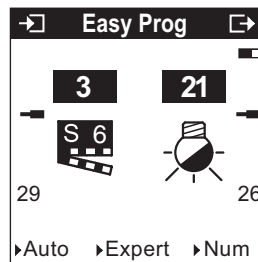| Possible link type		Link description	Output operation
☼	Override in comfort mode	The function "Override in comfort mode" activates the Comfort mode.	Press on the push button ➜ Comfort mode activation. The effect of this command is cancelled by any other mode activation command.
☾	Override in Economy mode	The function "Override in economy mode" activates the economy mode.	Press on the push button ➜ Reduced mode activation. The effect of this command is cancelled by any other mode activation command.
❄ auto	Frost protection / Auto override	The Frost protection / Auto override function behaves like the Frost protection override function.	The Auto mode is ignored by the product.
☼🕐	Time limited comfort	The Time limited comfort function activates comfort mode for an adjustable period. 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. Default value: 30 min	Short press on the push button ➜ Activation of the Comfort mode for the set time. When the time delay is running, a long press returns to the initial mode. At the end of the time delay, the system returns to the initial mode. The effect of this command is cancelled by any other mode activation command.
☼☾	Comfort / Night set-point	The Comfort / Night override function allows you to switch between Comfort mode and Night mode.	Successive presses on the push button allow you to switch between Comfort mode and Night mode. 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.	Press on the push button ➜ Activation of Standby mode. The effect of this command is cancelled by any other mode activation command.
STOP	Shut off	The Stop function is used to stop or activate the heating regulation elements.	The associatd input contact is a switch type contact. Closure of the contact causes the regulation to stop. Opening the input contact restarts the regulation.
☼🏃🏠	Comfort / Standby override	The Comfort / Standby override function is used to switch between Comfort mode and Standby mode.	Successive presses on the push button allow you to switch between Comfort mode and Standby 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.	Press on the push button ➜ Activation of Frost protection (or Protection) mode. 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.	Press on the push button ➜ Comfort mode priority. Successive presses allow you to switch between Priority and Priority cancellation. Priority is the function with the highest priority. Only a priority-end control ends the priority and re-authorizes the bus commands to be taken into consideration. It returns to the initial mode after Priority Cancellation. The effect of this command is also cancelled by any other Priority command (Frost Protection) or a Stop command. The indicator associated with the push button indicates whether a Priority is active or not, it does not indicate the status of the output.

2.5 Scene function

■ 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).

```
⊠     Easy Prog     ⬛
                        ▭
   3        21
   S 6      🔆
 29              26

▸Auto   ▸Expert   ▸Num
```

| 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 single push button activates a scene. Each output may be integrated into 8 different scenes.	The status of each output can be defined: - By parameterising the actuators or regulators, - Via learning, with the push buttons on the installation or on the front of certain devices.

■ Output configuration by parameterisation

Refer to the user instructions for the various actuators.

■ Configuration by learning and scene storing

This procedure allows modifying and storing a scene by local action on the Ambiance pushbuttons or by local action on the pushbuttons situated on the front of certain devices (lighting or shutter / blind actuators, ...).
- Activate the scene by pressing briefly on the room push button that triggers the scene,
- Switch the outputs (Lighting, Rolling shutters, Thermostat, etc.) to the desired status using the room push-buttons which control them individually or by directly pressing the buttons on the front of certain products (see the configuration manuals of the concerned devices for more details),
- Store the output statuses and the regulator mode by pressing the scene-triggering Ambiance pushbutton for at least 5 s. The storage is indicated by temporary activation of the outputs on certain actuators.
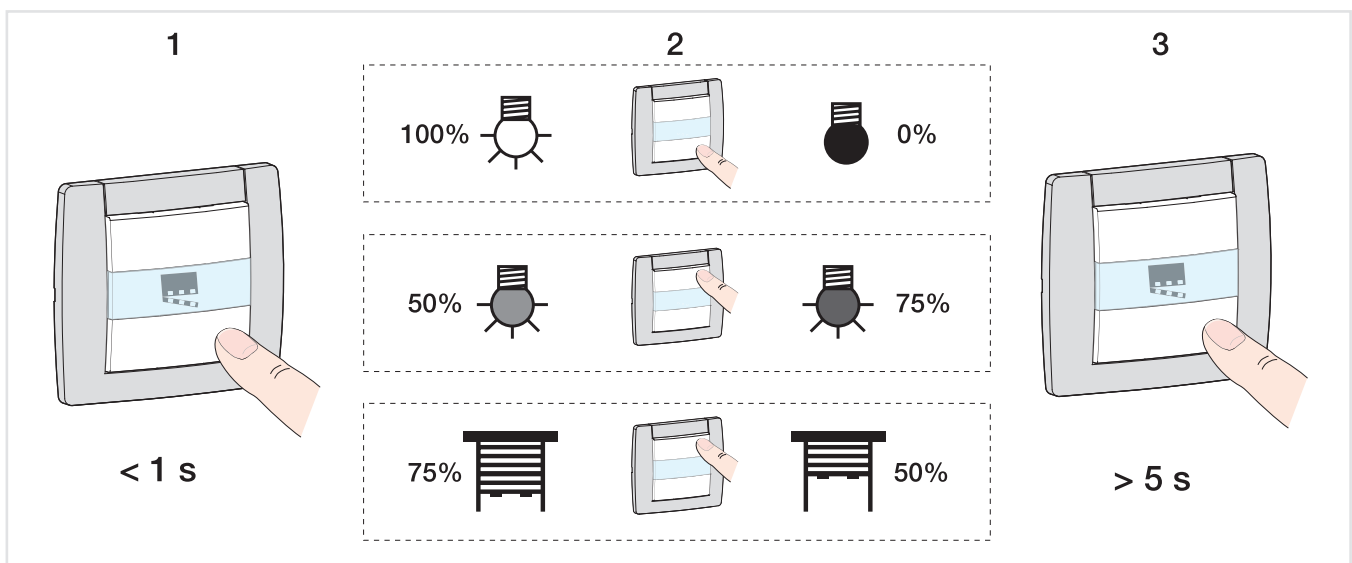
# 3. Configuration of the links to indicate the status of an LED output

■ Status indcation in Standard mode

To create a link between an LED output and an input in Standard mode of the TX100 you must switch to **+info** mode to diplay the LED outputs. These outputs are visible in the right-hand part of the screen of the TX100 and are numbered from 511 in decreasing order.

The symbol corresponding to the LED outputs is the following:

To identify the output to connect, connect an LED to each output and make short presses on the key on the TX100. Successive presses cause the corresponding LED outputs to light up or go out.

Once the output number has been selected, select the required status indication input then make a long press on the key on the TX100 to validate. The following screen opens. The linked rings in the upper part of the screen confirm that the link has been created.
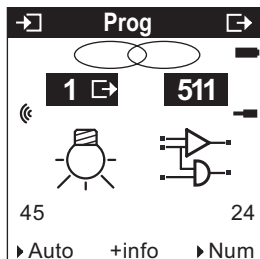
■ Status indication in Expert mode

It is possible to establish a link between an LED output and the **Status indication**object of an output which is not managed by the TX100.

The **LED output** object is of the 1 bit type:
- Value 0 = LED output off,
- Value 1 = LED output on.

E.g. link between the **Rain detection** object of a TG053A weather station and an LED output.

- Open the ETS project and retrieve the address of the group linked to thd **Rain status indication**object: here the address of the group is **4/20**,
- Switch on the TX100, select the project containing the TXB32 to be linked,
- Activate the Expert mode (Menu ➔ Expert / Standard ➔ Yes),
- Go to **Prog** mode,
- Select the LED output to be linked,
- Press on the central screen key to select Expert mode,
- The following screen opens:
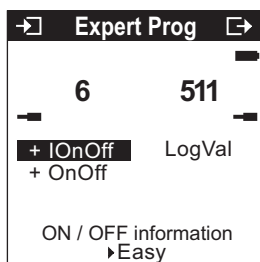
- Click on the right key ▲ located under the TX100 screen to select the **LogVal** object,
- The following screen opens:
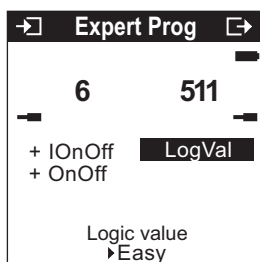
- Click on the validation key ✓,
- The following screen opens:

```
┌─────────────────────────┐
│      Group address      │
│                        ◆│
│                         │
│                         │
│                         │
│                         │
│                         │
│  Add            ⬑       │
└─────────────────────────┘
```
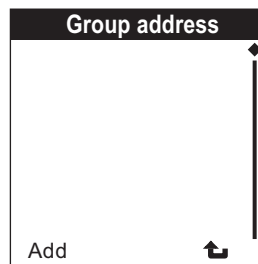
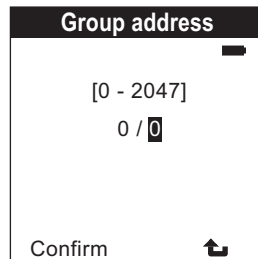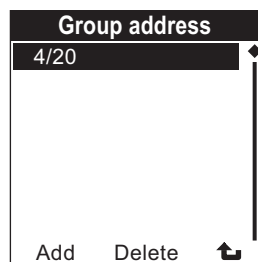- Click on the **Add** screen button,
- The following screen opens:

```
┌─────────────────────────┐
│      Group address       │
│                       ▬  │
│        [0 - 2047]        │
│          0 / 0           │
│                          │
│                          │
│  Confirm         ⬑       │
└─────────────────────────┘
```

- Use the left keys ▲ and ▼ located under the screen of the TX100 to select the par of the group address to be modified,
- Use the right keys ▲ and ▼ located under the screen of the TX100 to select the required value,
- The following screen opens:

```
┌─────────────────────────┐
│      Group address       │
│                       ▬  │
│        [0 - 2047]        │
│          4 / 20          │
│                          │
│                          │
│  Confirm         ⬑       │
└─────────────────────────┘
```
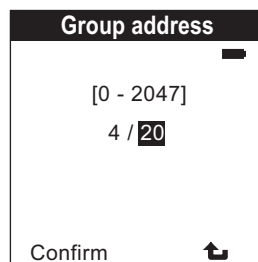
- Click on the **Confirm** screen button to confirm the input or on ⬑ to cancel the input,
- After confirmation the following screen appears:

```
┌─────────────────────────┐
│      Group address       │
│ 4/20                    ◆│
│                          │
│                          │
│                          │
│                          │
│  Add    Delete   ⬑       │
└─────────────────────────┘
```

- Click on the **Add** screen button to add another group address, on **Delete** to delete the selected group address and on ⬑ to return to the **Expert Prog** screen,
- After click on ⬑ , the following screen appears:

```
┌─────────────────────────┐
│ ⇥   Expert Prog   ⇥      │
│                     ▬    │
│    6          511        │
│ ▬                   ▬    │
│ + IOnOff   + LogVal      │
│ + OnOff                  │
│                          │
│      Logic value         │
│        ▸Easy             │
└─────────────────────────┘
```
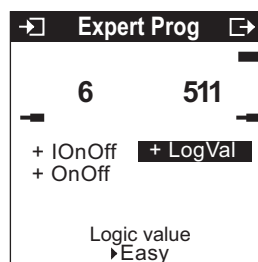
NB: the + symbol located before the **LogVal** object indicates that a group address is associated with the object.

- Now make a long press on the ✓ key of the TX100 so that the media coupler takes into account the group address added previously,
- Press th Auto screen button to return to auto mode and test the link,
- Proceed in the same way for each object to be linked.

# 4. Expert mode and Creation of specific links

■ General points

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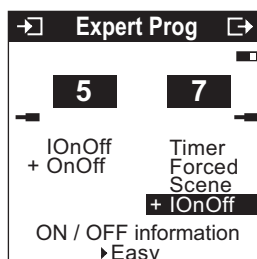
The Expert mode allows links to be established between objects with the same format by giving them the same group address.

List of the available objects:

Designation TX100	Designation ETS	Function	Format	Description
On / Off and Dimmer Lighting controls				
OnOff	On/Off	ON / OFF	EIS1 1 bit	Allows an ON / OFF command to be transmitted.
IOnOff	InfoOn/Off	Info ON / OFF	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				
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 (1 BP command).
IOnOff	Info On/Off	Info ON / OFF	EIS1 1 bit	Indicates the output's status.
Forced	Forced	Priority	EIS2 2 bit	Forces an Up or Down command.
Heating / Air-Conditioning control				
HvacMode	HvacMode	Heating mode	1 byte	Activates a heating or air-conditioning mode (Comfort, Reduced, ...).

Designation TX100	Designation ETS	Function	Format	Description
IOnOff	InfoOn/Off	Info ON / OFF	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				
Scene	SceneNumber	Scene	1 byte	Activates the scene by its number.

5. Restore Factory Configuration function

This function resets the device to its original configuration (Factory reset).
After a device reset, the device can be re-used in a new installation.
This function is accessible via the TX100's Device Management / Reset menu.

There are 2 different cases:

-   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 device from the list, press ✓ and confirm deletion.

-   The device does not belong to the installation:
        - Select Not install. device from the Reset menu,
        - Press ✓,
        - Select TP,
        - Press ✓,
        - Press on the physical addressing pushbutton to detect the product,
        - Press the screen key ✓.

After the device reset operation, the product is configured in lighting mode.
After a device reset, the installation must be learnt again in order to relocate the devices reset to Factory configuration.

6. Characteristics

Max. number of group addresses	252
Max. number of links	254

7. Bus presence test

To check for the presence of the bus or to reset to Factory configuration, press the physical addressing pushbutton.
indicator ON = Bus presence.
Press a second time to exit this mode.