
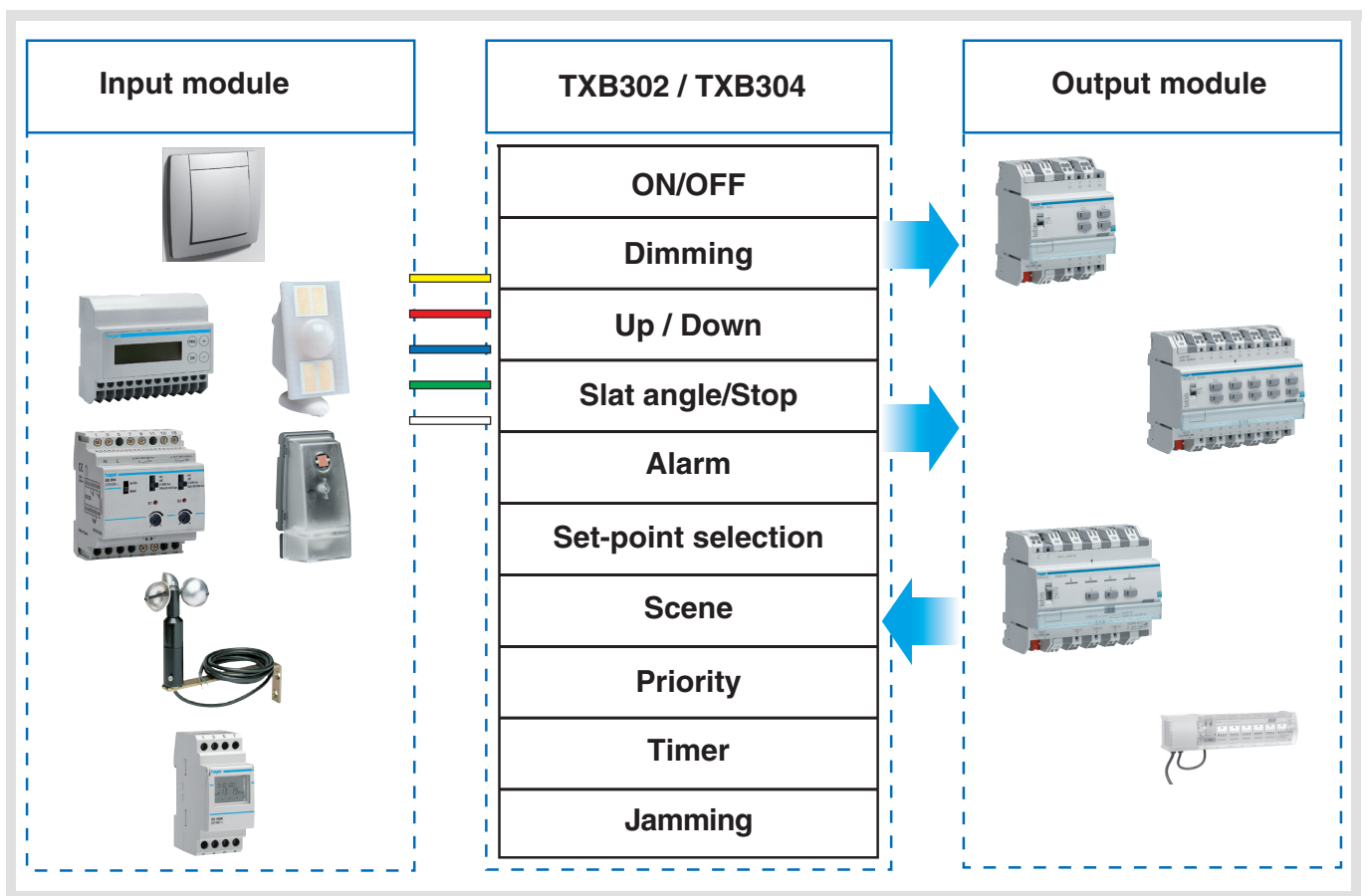


## Tebis application software

TL302 V 1.x 2 inputs  
TL304 V1.x 4 inputs

	Product reference	Product designation
	TXB302 TXB304	2 input flush-mounted input module 4 input flush-mounted input module



### Summary

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## 1. Presentation of the functions of the TL302-304 application

The TL302-304 application software is used to program each input individually. The main functions are the following:

The pushbuttons connected to the inputs control the lighting, rolling shutter and blind, heating and scenes..

### ■ ON/OFF

The On/Off function switches lighting, rolling shutter and heating circuits on and off. The command may come from switches, pushbuttons or automatic controls.

### ■ Toggle switch

The toggle switch function (Toggle switch/- or -/Toggle switch) will after each key press invert the status of the output circuit. Each new key-press modifies the output status. The time limited toggle switch function consists of inverting the status of the output after each short key-press. If there is no short key-press, the output will be switched OFF once the delay time has elapsed. A long push button press restarts the delay time.

### ■ Timer

The time limited toggle switch function is used to switch a lighting circuit ON or OFF, shutters, heating for an adjustable time. Depending on the operation mode selected, the output may be delayed for ON or OFF switching. The timer can be interrupted before the end of the delay time. An adjustable cut-OFF pre-warning indicates the end of the delay time by inverting the status of the output for 1 sec.

### ■ 1 or 2 button dimmer

This function allows dimming a light using one or two pushbuttons. The ON/OFF function transmits the ON/OFF object (short key-press). The Dimming function transmits the Dimming object (long key-press).

### ■ Value (1 channel and 2 channels)

The Value function allows the command of a luminosity level, a temperature, an illumination value, etc.. The Value function transmits a Value object.

### ■ Alarms

The Alarm 1 and Alarm 2 functions allow alarms coming from automatic controls to be periodically emitted (anemometer, rain detector, light sensitive switch, etc.).

### ■ Priority

The Priority function allows an input to be forced to a defined status, ON or OFF. The forcing action depends on the type of application controlled: lighting, rolling shutter, heating, etc.

### ■ Heating mode selection

This function is used to select a heating or air conditioning setpoint. The command may come from switches, pushbuttons or automatic controls.

### ■ Shutters / Blinds

This function controls shutters or a blind using one or two push buttons. The Up/Down function transmits the Up/Down object (press for a long time). The Stop/Angle function transmits the Stop/Angle object (press briefly).

### ■ Scene

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

### ■ 2-channel mode, ON/OFF

The 2-channel mode function allows controlling, with the same pushbutton, two independent circuits having different functions.

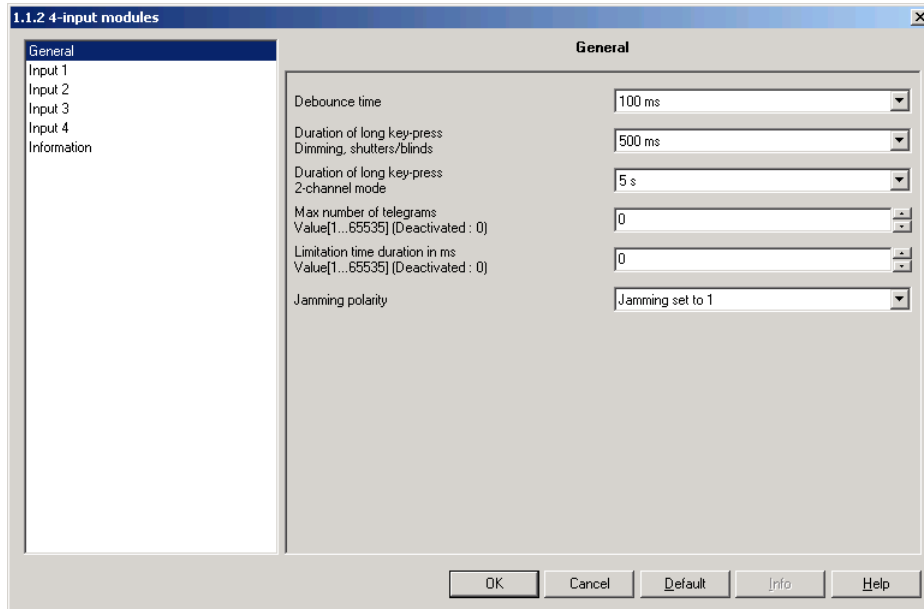
### ■ Jamming

The Jamming function is used to lock an input via an object on the bus. No commands or values can be sent to the bus.

## 2. Input configuration and parametering

### 2.1 General parameters

→ Parameters



Screen 1

Designation	Description	Values
Debounce time	This parameter defines, for the contacts connected to inputs, the minimum closing time before taking them into account.	50 ms, 100 ms, 150 ms, Default value: 100 ms.
Duration of long key-press Dimming, Shutter/Blind	This parameter defines for the dimmer and shutters/blinds function the detection time of a hold down pressure.	400 ms, 500 ms, 600 ms, 700 ms, 800 ms, 900 ms, 1 s. Default value: 500 ms.
Duration of long key-press 2 channel mode	This parameter defines the duration of detection of a long press for the 2 channel value function and 2 channels ON/OFF.	500 ms, 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s, 10 s, 30 s, 1 min, 2 min, 5 min, 10 min. Default value: 5 s
Maximum number of telegrams 1 to 65535 (0 = function not used)	This parameter defines the maximum number of telegrams which can be transmitted on the bus by the product during the limitation period.	1 - 65535 Default value: 0
Limitation time duration in ms 1 - 65535 (0 = function not used)	This parameter defines the period during which the the limitation of the maximum number of telegrams takes effect.	1 - 65535 Default value: 0
Jamming polarity	This parameter defines the level at which jamming is active.	On 1, On 0 Default value: On 1

## 2.2 Objects List

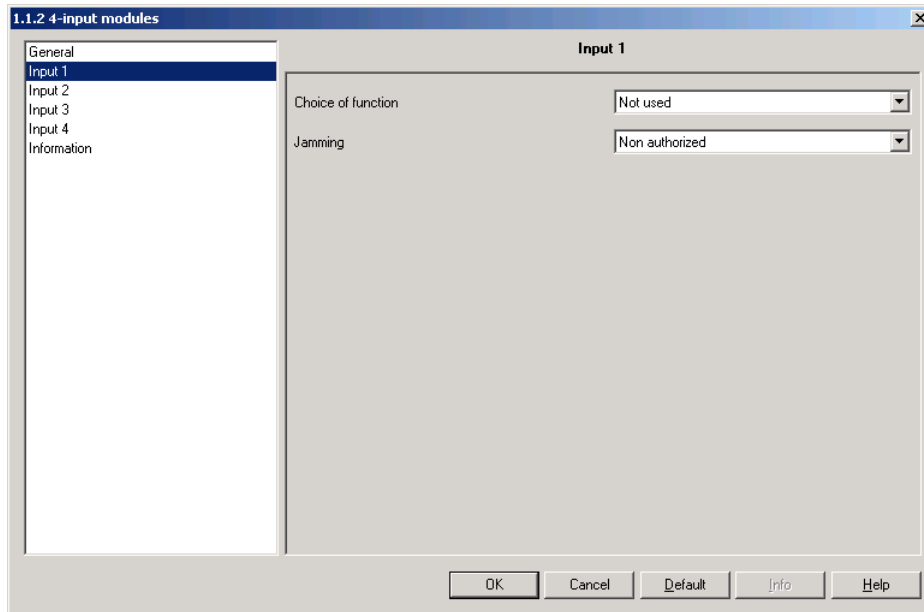
Function Object name	ON/OFF	Toggle switch	Timed toggle switch	Timer	1-button dimmer	2-button dimmer	Shutters / Blinds	Heating	Priority	Scene	Alarm 1	Alarm 2	Value
ON/OFF	X	X			X	X							
Status display		X	X		X								
Time-limited toggle switch			X										
Timer				X									
Dimming					X	X							
Stop/Angle							X						
Up/Down							X						
Setpoint selection								X					
Priority									X				
Scene										X			
Value													X
Jamming	X	X	X	X	X	X	X	X	X	X			X
Alarm 1											X		
Alarm 2												X	

## 2.3 Function descriptions

### ■ Product function

The product allows controls for lighting, blinds and shutters, heating, scenes to be sent.

→ Parameter



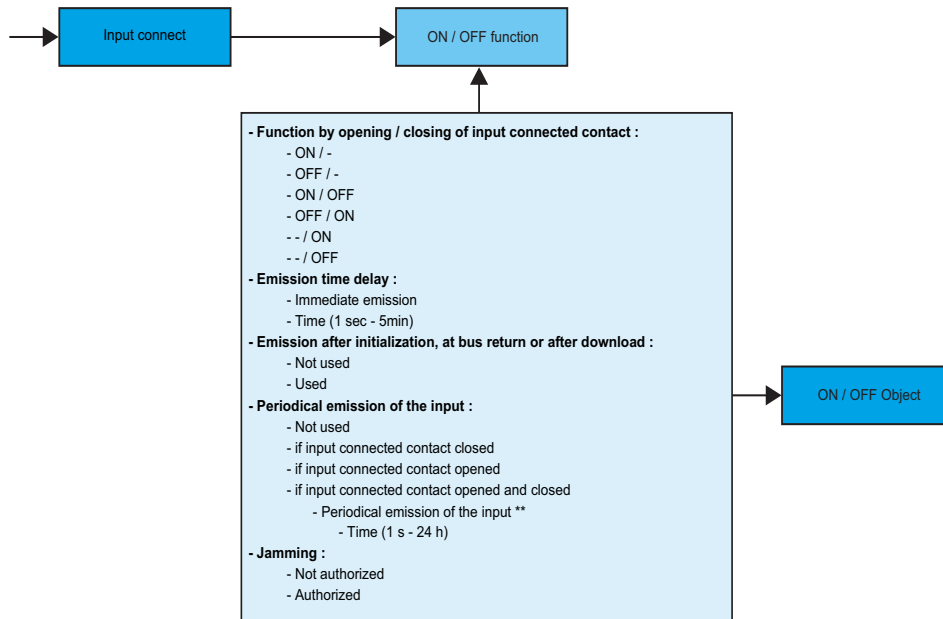
Screen 2

Designation	Description	Values
Channel function	This parameter allows selecting the function associated with each input.	Not used, Toggle switch, ON/OFF, 1-button dimmer, 2 -button dimmer, Shutters / Blinds, Alarm 1, Alarm 2, Heating mode selection, Value, Scene, Timer, Priority, 2-channel mode ON/OFF, 2-channel mode Value. Default value: Not used.

■ Channel function ON/OFF

This function is used to switch the lighting circuit or any other load ON or OFF.

An ON or OFF command will be transmitted on the bus via the ON/OFF object. The command to be sent (ON or OFF) must be defined in the parameters.



Designation	Description	Values
Function by opening / closing of input connected contact	This parameter defines the commands transmitted when input status changes occur.	ON/-, OFF/-, ON/OFF, OFF/ON, -/ON, -/OFF. Default value: ON/- ("-" = No action).
Emission time delay	This parameter is used to send commands with a configurable delay.	Immediate emission, 1 s, 2 s, 3 s, 4 s, 5 s, 10 s, 15 s, 20 s, 25 s, 30 s, 40 s, 50 s, 1 min 30 s, 2 min 30 s, 3 min 30 s, 4 min 30 s, 5 min. Default value: Immediate emission.
Emission after initialization, at bus return or after download	This parameter defines if the input status is transmitted on the bus when the product is initialised or on bus return.	Not used, Used. Default value: Not used.
Periodical emission of the input	This parameter defines the condition activating cyclic transmission.	Not used If input connected contact closed. If input connected contact opened. If input connected contact opened and closed. Default value: Not used.
Periodical emission delay of input*	This parameter defines the cyclic transmission period.	Time: 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s, 10 s, 20 s, 30 s, 1 min, 2 min, 3 min, 4 min, 5 min, 10 min, 15 min, 30 min, 1 h, 2 h, 3 h, 6 h, 12 h, 24 h. Default value: 30 min.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Used.

\* This parameter is only visible if the Periodical emission of the input parameter has a value other than: Not used.

■ Channel function Toggle switch

**Toggle switch:**

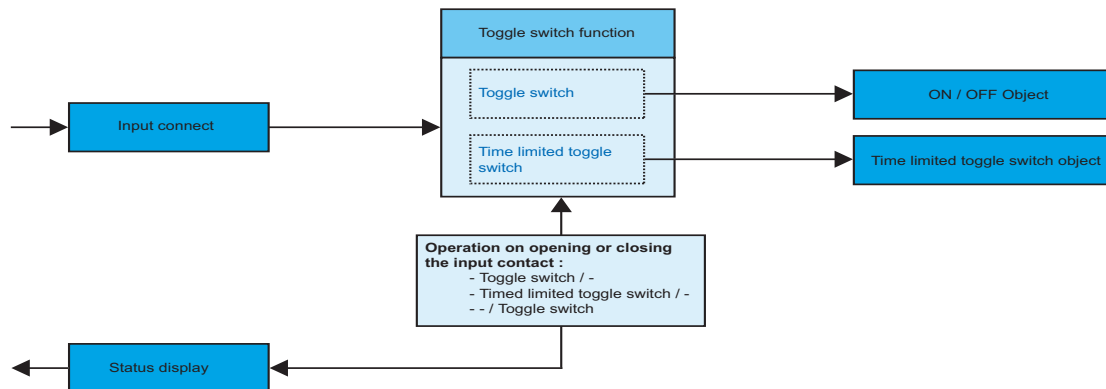
The toggle switch function (Toggle switch/- or -/Toggle switch) will after each key press invert the status of the output circuit. Each new key-press modifies the output status.

Description: After pressing the pushbutton, depending on the Status indication object, an ON or OFF command will be sent to the bus via the ON/OFF object. The command sent to the bus is the inverse of the previous command (previous command: ON -> OFF command sent ; Stop -> ON command sent).

**Time-limited toggle switch:**

A short push button press: The output's status is inverted. The status changes after each new short key-press. If there is no short key-press, the output will be switched OFF once the delay time has elapsed. A long push button press restarts the delay time.

Description: A short press transmits the timed toggle switch object on the bus with the opposite value to the status indication object. A long press on the push-button transmits an ON command via the timed toggle switch object. Upon reception of an ON command from the time-limited toggle switch, TXA-type products switch the output to ON for the set time. When an OFF command is received from the timed toggle switch, the outputs switch to OFF. An ON command received while the output is still ON will reset the time delay.



Designation	Description	Values
Function by opening / closing of input connected contact	This parameter defines the commands transmitted when input status changes occur.	Toggle switch / -, Time limited toggle switch/-, -/Toggle switch. Default value: Toggle switch / -. ("-" = No action).
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Used.

**A. Channel function Timer**

The Timer function is performed by sending the Timer object. The timer duration is defined on the output module.

For the Timer function:

- Timer start = press briefly (rising edge)
- Timer end = long key-press (falling edge)

■ Channel function Dimmer: 1-button dimmer, 2 -button dimmer

This function allows dimming a light using one or two pushbuttons.

The 1 button dimmer and 2-buttons dimmer functions send the Dimmer type object after a long pressure and the ON/OFF object after a short pressure.

→ Parameter Setting screen: See "Screen 2".

→ Parameters

Designation	Description	Values
Dimming direction*	This parameter defines the dimming direction associated to the button.	Increase, Decrease. Default value: Increase.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Used.

\*This parameter is only visible when the Function parameter has the value: 2 -button dimmer.

- Channel function Shutters/blinds: 1-button Shutters/Blinds, 2 button Shutters/Blinds, 2 buttons safety Shutters/Blinds, Shutters/blinds automatic controls,

The Shutter/Blind functions are used to lift and lower shutters and blinds, and to angle blind slats.

**B. Type of function 1-button Shutters/blinds, 2 button Shutters/Blinds**

This function controls shutters or a blind using one or two push buttons.

The 1 button Shutter/Blind and 2 -button Shutter/Blind functions transmit the Up/Down object on a long press and the slat angle/ Stop object on a short press (blind only).

→ Parameter Setting screen: See "Screen 2".

→ Parameters

Designation	Description	Values
Type of function	This parameter selects the utilization mode.	1-button shutters/blinds, 2 button Shutters/Blinds, 2 buttons safety Shutters/Blinds, Shutters/blinds automatic controls. Default value: 2 button Shutters/Blinds
Function*	This parameter defines the movement direction associated to the button.	Up, Down. Default value: Up.
Jamming	This parameter is used to prevent the input from being used	Not used, Used. Default value: Used.

\* This parameter is only visible if the Type of function parameter has the value: 2 button Shutters/Blinds or 2 buttons safety Shutters/Blinds.

**C. Type of function Shutters/blinds automatic controls**

This function allows controlling a shutter or a blind by means of an automatic control (switch,etc.).

The Shutters blinds automatic controls transmits the Up/Down object.

Safety Down Application:

This procedure allows controlling a down movement as long as a pushbutton is pressed down:

- On the concerned shutter outputs: Activate the Safety down function.
- On the control input: select the Shutters blinds automatic controls value for the Function parameter.

→ Parameter Setting screen: See "Screen 2".



Designation	Description	Values
Function	This parameter defines the movement direction associated to the button.	Up/-, Down/-, Up / Down, Down/Up, -/ Up, -/ Down. Default value: Up / Down**
Emission time delay*	This parameter sends commands with a set delay in relation to pressing or releasing.	Immediate emission, Time (1 s, 2 s, 3 s, 4 s, 5 s, 10 s, 15 s, 20 s, 25 s, 30 s, 40 s, 50 s, 1 min 30 s, 2 min 30 s, 3 min 30 s, 4 min 30 s, 5 min). Default value: Immediate emission.
Emission after initialization, at bus return or after download*	This parameter defines if the input status is transmitted on the bus when the product is initialised or on bus return.	Not used, Used. Default value: Not used.
Periodical emission of the input*	This parameter defines the condition activating cyclic transmission.	Not used. If input connected contact closed. If input connected contact opened. If input connected contact opened and closed. Default value: Not used.
Periodical emission delay of input**	This parameter defines the cyclic transmission period.	Time: 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s, 10 s, 20 s, 30 s, 1 min, 2 min, 3 min, 4 min, 5 min, 10 min, 15 min, 30 min, 1 h, 2 h, 3 h, 6 h, 12 h, 24 h. Default value: 30 min.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Used.

\* This parameter is only visible if the Type of function parameter has the value: Shutters/blinds automatic controls.

\*\* This parameter is only visible if the Type of function parameter has the value : Shutters/blinds automatic controls and the periodical emission delay parameter has a value other than: Not used.

→ Parameters

#### D. Channel function Alarm 1, Alarm 2

The Alarm 1 and Alarm 2 functions allow alarms coming from automatic controls to be periodically emitted (anemometer, rain detector, light sensitive switch, etc.).

The periodical emission delay for alarms is defined by the alarm transmission period parameter.

To place the shutters in safety position in case of bad weather: link the Alarm 1 and Alarm 2 functions with the Wind Safety and Rain Safety objects of the Shutter/Blind output modules.

These functions have the highest priority. Alarm 1 has a higher priority than alarm 2.

The Alarm 1 function transmits the Alarm 1 object.

The Alarm 2 function transmits the Alarm 2 object.

→ Parameter Setting screen: See "Screen 2".

→ Parameter

Designation	Description	Values
Periodical emission of alarm	This parameter defines the emission periodicity of the object Alarm 1 or Alarm 2	Not used, Time (5 s, 30 s, 1 min, 5 min, 10 min, 30 min, 1 h, 2 h, 3 h, 5 h) Default value: Not used
Active edge	This parameter defines on which edge the commands are sent on the bus.	Rising edge, Falling edge. - Rising edge: closing of input contact - Falling edge: opening of input contact Default value: Rising edge.
Emission after initialization, at bus return or after download	This parameter defines if the input status is transmitted on the bus when the product is initialised or on bus return.	Not used, Used. Default value: Used.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Used.

■ Channel function Heating

The Heating functions allow switching ON or OFF the heating or selecting a set-point.

**A. Channel function Heating**

The Heating function is used to select a set-point.

The Heating function transmits the Set-point selection object.

→ Parameter Setting screen: See "Screen 2".

→ Parameters

Designation	Description	Values
Function	This parameter allows selecting the set-point associated with the connected input.	Comfort/Frost protection, Comfort/-, Frost protection/-, Frost protection/Auto, Absence/-, Comfort/Absence, Frost protection/-, Frost protection/Comfort, -/Comfort, -/Frost protection, Auto/Frost protection, -/Absence, Absence/Comfort, -/Frost protection. Command on rising edge / Command on falling edge (" - " = No action). Default value: Comfort/-.
Periodical emission of the input	This parameter defines the condition activating cyclic transmission.	Not used. If input connected contact closed. If input connected contact opened. If input connected contact opened and closed. Default value: Not used.
Periodical emission delay of input*	This parameter defines the cyclic transmission period.	Time: 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s, 10 s, 20 s, 30 s, 1 min, 2 min, 3 min, 4 min, 5 min, 10 min, 15 min, 30 min, 1 h, 2 h, 3 h, 6 h, 12 h, 24 h. Default value: 30 min.
Emission after initialization, at bus return or after download	This parameter defines if the input status is transmitted on the bus when the product is initialised or on bus return.	Not used, Used. Default value: Not used.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Used.

\* This parameter is only visible if the Periodical emission of the input parameter has a value other than: Not used.

■ Channel function priority

The priority function sends priority-start or priority-stop commands.

The Priority function transmits the Priority object.

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.

→ Parameter Setting screen: See "Screen 2".

→ Parameter

Designation	Description	Values
Priority type	This parameter selects a Priority type. It depends on the type of application.	Priority ON - Down - Comfort, Priority OFF - Up - Frost protection. Default value: Priority ON- Down - Comfort.
Active edge	This parameter defines on which edge the commands are sent on the bus.	Rising edge, Falling edge. - Rising edge: closing of input contact - Falling edge: opening of input contact Default value: Rising edge.
Emission after initialization, at bus return or after download*	This parameter defines if the input status is transmitted on the bus when the product is initialised or on bus return.	Not used, Used. Default value: Not used.
Periodical emission of the input*	This parameter defines the condition activating cyclic transmission.	Not used, Used. Default value: Not used.
Periodical emission delay of input*	This parameter defines the cyclic transmission period.	Time: 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s, 10 s, 20 s, 30 s, 1 min, 2 min, 3 min, 4 min, 5 min, 10 min, 15 min, 30 min, 1 h, 2 h, 3 h, 6 h, 12 h, 24 h. Default value: 30 min.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Not used.

\* This parameter is only visible if the Periodical emission of the input parameter has a value other than: Not used.

■ Jamming function

The Jamming function authorizes push button locking. Jamming forbids sending commands. This function is started by the Jamming object. Jamming is indicated by the indicator flashing for 5 seconds when the push button is pressed.

This function has a lower priority level than the Alarms and the Priorities.

A Jamming end command ends the jamming and allows again taking the commands from the bus into consideration. The triggering of an alarm or a priority command ends the jamming.

Designation	Description	Values
Jamming polarity (Screen: General)	The Jamming function authorizes product locking. Jamming forbids sending commands. This parameter defines the level at which jamming is active.	On 1, On 0 Default value: On 1.
Jamming (Screen: Input x)	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Not used.

→ Parameter Setting screen: See "Screen 2".

■ Channel function 2 channel mode ON/OFF

The 2-channel mode is used to control two independant circuits with different functions using the same input.

- 1 short-press function (Channel A)
- 1 long-press function (Channel B): the duration of the long press is defined by the 2 channel long press mode duration parameter (See Chapter 2.1 General parameters ).

The 2-channel mode function transmits the ON/OFF channel A and ON/OFF channel B objects.

Designation	Description	Values
Channel A function (press briefly)	This parameter defines the command sent by a short key-press.	Not used, ON, OFF, Toggle switch. Default value: ON.
Channel B function (press for a long time)	This parameter defines the command sent by a long key-press.	ON, OFF, Toggle switch. Default value: Toggle switch.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Not used.

→ Parameter Setting screen: See "Screen 2".

■ Channel function Value

**A. Channel function Value (1-channel mode)**

The Value function allows the command of a luminosity level, a temperature, an illumination value, etc..

The Value function transmits a Value object.

Designation	Description	Values
Value type	This parameter defines the type of value sent.	Value in %, Temperature, Brightness value, Luminosity level, Value. Default value: Luminosity level.
Active edge		Rising edge, Falling edge. Default value: Rising edge.
Value	This parameter defines the value to be sent to the bus.	Possible values: - Value in %, 0% to 100% in 1 % steps Default value: 0%. - Temperature, 0 °C to 40 °C in 0.5 °C steps Default value: 20 °C - Brightness value, 0 lux to 1000 lux in 50 lux steps. Default value: 300 lux. - Luminosity level, 0% to 100% in 1 % steps. Default value: 0%. - Value, 0 to 65535 in 1 steps. Default value: 0.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Not used.

**B. Channel function 2 channel mode value**

The 2 channel mode value function makes it possible to transmit 2 different values with the same input.

- 1 value with a short press (Channel A)
- 1 value with a long press (Channel B): the duration of the long press is defined by the 2 channel long press mode duration parameter (See Chapter 2.1 General parameters ).

The 2-channel mode function transmits the ON/OFF channel A and ON/OFF channel B objects.

<b>Designation</b>	<b>Description</b>	<b>Values</b>
Value type Channel A	This parameter defines the type of value sent.	Not used, Value in %, Temperature, Brightness value, Luminosity level, Value. Default value: Value in %.
Value	This parameter defines the value to be sent to the bus	Possible values: <ul style="list-style-type: none"> <li>- Not used</li> <li>- Value in %, 0% to 100% in 1 % steps</li> </ul> Default value: 0%. <ul style="list-style-type: none"> <li>- Temperature, 0 °C to 40 °C in 0.5 °C steps</li> </ul> Default value: 20 °C <ul style="list-style-type: none"> <li>- Brightness value, 0 lux to 1000 lux in 50 lux steps.</li> </ul> Default value: 300 lux. <ul style="list-style-type: none"> <li>- Luminosity level, 0% to 100% in 1 % steps.</li> </ul> Default value: 0%. <ul style="list-style-type: none"> <li>- Value, 0 to 65535 in 1 steps.</li> </ul> Default value: 0.
Value type Channel B	This parameter defines the type of value sent	Value in %, Temperature, Brightness value, Luminosity level, Value. Default value: Value in %.
Value	This parameter defines the value to be sent to the bus.	Possible values: <ul style="list-style-type: none"> <li>- Value in %, 0% to 100% in 1 % steps</li> </ul> Default value: 0%. <ul style="list-style-type: none"> <li>- Temperature, 0 °C to 40 °C in 0.5 °C steps</li> </ul> Default value: 20 °C <ul style="list-style-type: none"> <li>- Brightness value, 0 lux to 1000 lux in 50 lux steps.</li> </ul> Default value: 300 lux. <ul style="list-style-type: none"> <li>- Luminosity level, 0% to 100% in 1 % steps.</li> </ul> Default value: 0%. <ul style="list-style-type: none"> <li>- Value, 0 to 65535 in 1 steps.</li> </ul> Default value: 0.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Not used.

■ Channel function scene

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

The Scene function transmits a Scene object. The value of the Scene object is defined by the Scene number parameter.

The closing time of the contact connected with the input determines the action carried out:

Designation	Description	Values
Scene activation through	This parameter defines the type of product or automation connected to the input to activate a scene.	Push button, Automatic controls Default value: Push button.
Scene number	This parameter defines the number of the scene which will be triggered when the input contact is closed.	Scene 1 to Scene 32 Default value: Scene 1.
Scene at contact closing*	This parameter defines the number of the scene which will be triggered when the input contact is closed.	Not used, Scene 1 to Scene 32 Default value: Scene 1.
Scene at contact opening*	This parameter defines the number of the scene which will be triggered when the input contact is opened.	Not used, Scene 1 to Scene 32 Default value: Not used.
Periodical emission of the input*	This parameter defines the condition activating cyclic transmission.	Not used, Used Default value: Not used.
Periodical emission delay of input**	This parameter defines the cyclic transmission period.	Time: 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s, 10 s, 20 s, 30 s, 1 min, 2 min, 3 min, 4 min, 5 min, 10 min, 15 min, 30 min, 1 h, 2 h, 3 h, 6 h, 12 h, 24 h. Default value: 30 min.
Emission after initialization, at bus return or after download*	This parameter defines if the input status is transmitted on the bus when the product is initialised or on bus return.	Not used, Used Default value: Not used.
Scene storing via very long key press	This parameter authorizes or forbids scene storing.	Not used, Used Default value: Not used.
Very long press duration	This parameter defines the length of time after which a scene is stored.	Time: 1 s, 2 s, 3 s, 4 s, 5 s, 6 s, 7 s, 8 s, 9 s, 10 s, 15 s, 20 s, 25 s, 30 s. Default value: 5 s.
Emission time delay	This parameter is used to send commands with a configurable delay in relation to input contact closure.	Immediate emission, Time (1 s, 2 s, 3 s, 4 s, 5 s, 10 s, 15 s, 20 s, 25 s, 30 s, 40 s, 50 s, 1 min 30 s, 2 min 30 s, 3 min 30 s, 4 min 30 s). Default value: Immediate emission.
Jamming	This parameter is used to prevent the input from being used.	Not used, Used. Default value: Not used.

\* This parameter is only visible if the Type of activation parameter has the value: Automatic controls.

\*\* This parameter is only visible if the Periodical emission of the input parameter has a value other than: Not used.

### 3. Main characteristics

Product	TXB302	TXB304
Max. number of group addresses	252	252
Max. number of links	254	254
Parameters	26 per input, 10 global, 114 in total	26 per input, 10 global, 166 in total
Objects	48	112

### 4. Physical addressing

To perform physical addressing or check for the presence of the bus, press the pushbutton located on the bottom right side of the product.

An indicator is located beside this pushbutton:

Indicator on = bus presence and product in physical addressing.

The product remains in physical addressing until the physical address has been transmitted by ETS. Press again to exit physical addressing mode. The indicator goes out.

