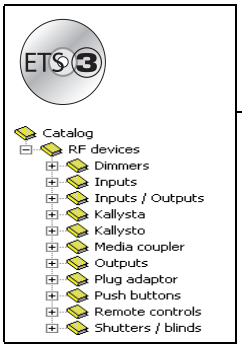
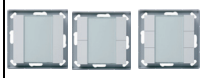
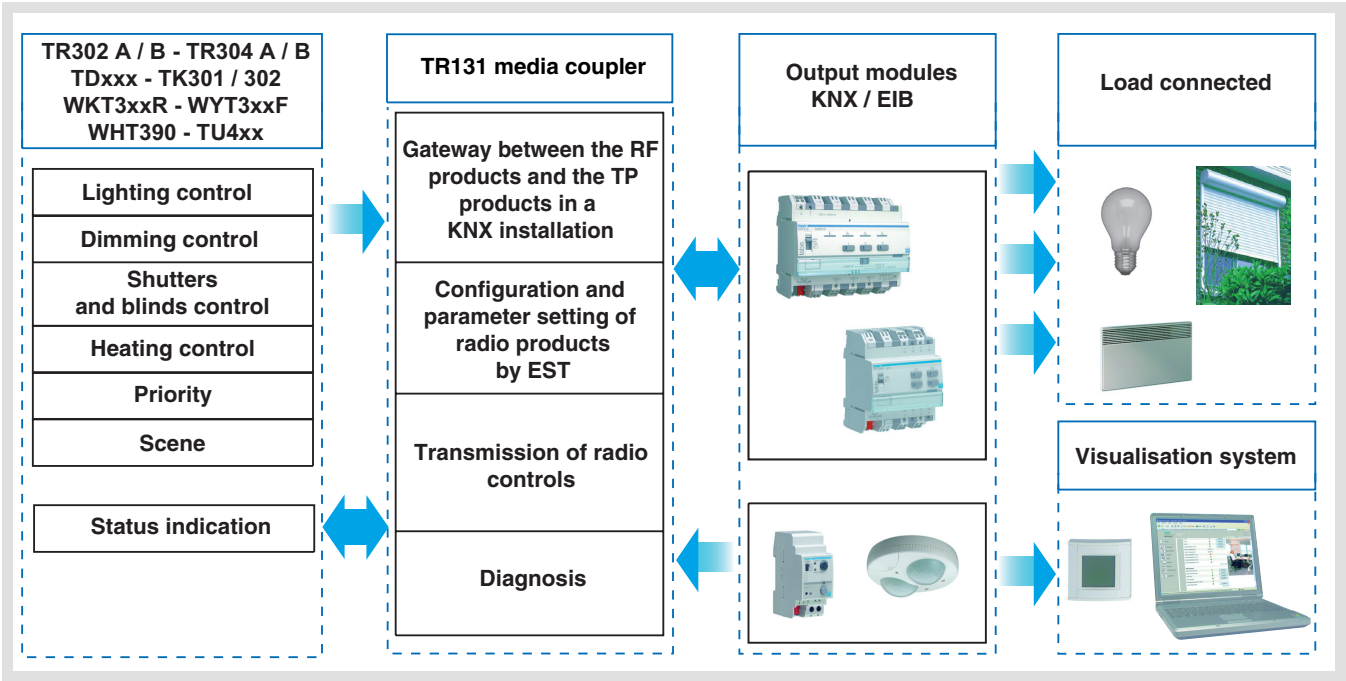


Tebis application software

Description of the RF input products

	Product reference	Product designation
	TR302 A / B	2 flush-fitting RF battery / mains-powered inputs
	TR304 A / B	4 flush-fitting RF battery / mains-powered inputs
	TDxxx	2 / 4 / 6 RF push-buttons with / without label-holder, battery / solar-powered, white / silver
	TK301 / 302	2 / 4-fold push button RF
	WKT3xxR	2 / 4 / 6 RF battery / solar-powered push buttons
	WYT3xxF	2 / 4 / 6-fold push button RF Battery, white / aluminium / anthracite
	WHT390	2 / 4 / 6-fold push button RF
	TU4xx	2 / 4 / 6 / 18-channel remote control RF



Summary

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1. Function Description

The TR351 coupler allows information to be exchanged between the RF emitters and the KNX TP bus products.
The application softwares for the input products are used to configure the product inputs individually.
The main functions are the flollowing:

Sending commands

The inputs allow commands for lighting, rolling shutters and blinds, heating settings and scenes to be transmitted.
Sending commands:

- Lighting control:
  - Toggle switch, ON, OFF, ON / OFF, Timer, Priority
  - 1 button or 2 button dimmer.
- Shutters / blinds control:
  - Up, Down, Stop, Blind slat angle, Priority, Wind alarm, Rain alarm,
  - 1 button or 2 button control.
- Set point selection (Thermostat)
  - Comfort, Night set-point, Comfort / Night set-point, Frost protection, Priority.

Scene

The Scene function sends group controls to different kinds of outputs to create ambiences or scenarios.
Example of scene 1: Leaving the house (centralised lighting control OFF, shutters on south side 3 / 4 closed, the other shutters open, heating switched over to Reduced mode).

Priority

The Priority function allows an input to be forced to a defined status.
The forcing action depends on the type of application controlled: Lighting, Shutters / blinds, Heating.

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.). Alarm 1 has a higher priority than Alarm 2.

2. Configuration and settings

2.1 Objects List

Object \ Function	ON / OFF	Toggle switch	Timer	1-button dimmer	2-button dimmer	1-button shutters / blinds	2-button shutters / blinds	Heating	Scene
ON / OFF	X	X		X	X				
Status indication		X		X		X			
Timer			X						
Dimming				X	X				
Slat angle / Stop						X	X		
Up / Down						X	X		
Set point selection								X	
Scene									X
Priority	X						X	X	
Alarm 1							X		
Alarm 2							X		
Battery Status	X	X	X	X	X	X	X	X	X

2.2 Parameter setting

■ Parameter setting: Input channel function

The product allows to control lighting, blinds, shutters, heating and scenes.

➜ Parameter Setting screen

Parameter	Description	Value
Input function	This parameter allows selecting the function associated with each input.	Factory settings Lighting, ON - Lighting, OFF - Lighting, Toggle switch - Lighting, Increase / Decrease - Lighting, Increase - Lighting, Decrease - Lighting, ON / OFF - Lighting, Timer - Lighting, Priority ON - Lighting, Priority OFF - Shutters / blinds, Up / Down - Shutters / blinds, Up - Shutters / blinds, Down - Shutters / blinds, Up priority - Shutters / blinds, Down priority - Shutters / blinds, Alarm 1 - Shutters / blinds, Alarm 2. Heating, Comfort / Night set-point - Heating, Comfort - Heating, Night set-point - Heating, Frost protection - Heating, ON / OFF - Heating, Timer - Heating, Comfort priority - Heating, Priority frost protection - Heating, Standby / - - Heating, Auto / - - Heating, Frost protection / - , Scene 1 to 8, Default value: Factory settings

Channel function: Factory settings

This function is the function loaded in the products at the factory. Tis allows the product to be recognised by the TR351.

Channel function: Lighting, Toggle switch

This function is used to switch the lighting circuit or any other load ON or OFF. Each new key-press modifies the output status.

Description: After pressing the connected pushbutton, depending on the **Status Indication** object, an ON or OFF command will be sent to the bus via the **ON / OFF** object.

Channel function: Lighting, ON / OFF - Lighting, ON - Lighting, OFF

Thee functions are used to control switching a lighting circuit or any other load on or off. The ON or OFF command will be transmitted to the bus via the **ON / OFF** object. The control to send (ON or OFF) must be defined when the channel function is selected:

- Lighting, ON / OFF:
  - Emission of the ON control when the input contact closes (or when the push button is pressed) and emission of the OFF control when the input contact opens (or when the push button is released).
- Lighting, ON:
  - Emission of the ON control when the input contact closes (or when the push button is pressed).
- Lighting, OFF:
  - Emission of the OFF control when the input contact closes (or when the push button is pressed).

Channel function: Lighting, Increase / Decrease - Lighting, Increase - Lighting, Decrease

These functions are used to control a light from one or two push buttons.
The 1 button dimmer and 2-buttons dimmer functions send the ON / OFF object after a short press.
A long press send the **Dimmer** object.

- Lighting, Increase / Decrease:
  - Emission of the Increase or Decrease control when the input contact closes (or when the push button is pressed) depending on the **Status indication** object.
- Lighting, Increase:
  - Emission of the ON control when the input contact closes (or when the push button is pressed).
- Lighting, Decrease:
  - Emission of the OFF control when the input contact closes (or when the push button is pressed).

■ Channel function: Shutters / blinds, Up / Down - Shutters / blinds, Up - Shutters / blinds, Down

- Shutters / blinds, Up / Down:
  - This function is used to control a rolling shutter or a blind with a single button (Input). Change of function after each operation (Down, STOP, Up, STOP). Slat angle adjustment is not possible here.

- Shutters / blinds, Up:
  - This function controls shutters or blinds using two push buttons (Inputs). Emission of the Up control when the input contact closes (or when the push button is pressed) and emission of the **Slat angle / Stop** object (short key-press).

- Shutters / blinds, Down:
  - This function controls shutters or blinds using two push buttons (Inputs). Emission of the Down control when the input contact closes (or when the push button is pressed) and emission of the **Slat angle / Stop** object (short key-press).

■ Channel function: 1-button dimmer

This function allows ON / OFF or Increase / Decrease controls using one push button.
There are 2 different function types: **1-button dimmer, 2-button dimmer.**

■ Channel function: Shutters / blinds, Alarm 1 - Shutters / blinds, 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.).
To place the shutters in safety position in case of bad weather: link the Alarm 1 and Alarm 2 functions with the **Alarm 1** and **Alarm 2** object of the **Shutter / Blind output modules**.
These functions have the highest priority. Alarm 1 has a higher priority than Alarm 2.

■ Channel function: Heating, Comfort / Eco - Heating, Comfort - Heating, Eco - Heating, Frost protection - Heating, Absence / - - Heating, Auto / - - Heating, Frost protection / -

This function is used select a heating setpoint.
The operating modes are sent via the **Set point selection** object.

■ Channel function: Heating ON / OFF

Emission of the OFF control when the input contact closes (or when the push button is pressed) and emission of the ON control when the input contact opens (or when the push button is released).

■ Channel function: Lighting, Priority ON - Lighting, Priority OFF - Shutters / blinds, Up priority - Shutters / blinds, Down priority - Heating, Comfort priority - Heating, Night set-point priority

This function sends priority-start or priority-stop commands. No other command is taken into account if a priority is active. Only end of priority or alarm commands will be taken into consideration. The value of the **Priority** object is defined when the channel function is selected.

■ Channel function: Scene 1 to 8

The Scene function sends group controls to different kinds of outputs to create ambiences or scenarios. (Panic switch, Television,etc.).
The value of the **Scene** object is defined when the channel function is selected.

■ Channel function: Lighting, Timer - Heating, Timer

This function operates like a staircase light function. The controls are sent on the bus via the **Timer** object.
Feature:
short key-press (Rising edge): Timer start.
long key-press (Falling edge): Timer end.

NB: The timer duration is set on the output module.

3. Main characteristics

Product	TR302 A / B	TR304 A / B	TDxxx	TK301 / 302	WKT3xxR	WYT3xxF	WHT390	TU4xx
Max. number of group addresses	13	25	13 / 25 / 37	4 / 7	13 / 25 / 37	13 / 25 / 37	13 / 25 / 37	32
Max. number of links	13	25	13 / 25 / 37	4 / 7	13 / 25 / 37	13 / 25 / 37	13 / 25 / 37	50
Parameters	2	4	2 / 4 / 6	1 / 2	2 / 4 / 6	2 / 4 / 6	2 / 4 / 6	2 / 4 / 6 / 18
Objects	3	5	3 / 5 / 7	3 / 5	3 / 5 / 7	3 / 5 / 7	3 / 5 / 7	3 / 5 / 7 / 19

4. Physical addressing

Physical addressing of the radio products is performed from the TR131 plug-in. In the **Physical addressing** menu, select **Physical addressing**, then following the instructions which appear on the screen.

5. Factory reset

The factory reset of the radio products is performed from the TR131 plug-in:

- The device belongs to the installation (known by the TR131): In the **Physical addressing** menu, select **Factory reset** and then follow the instructions which appear on the screen.
- The device does not belong to the installation (unknown by the TR131): In the **Physical addressing** menu, select **Product outside installation**, then select the type of product.
- Unidirectional products for the TR302A / B, TR304A / B, TDxxx, TK301 / 302, WKT3xxR, WYT3xxF, WHT390.
- Products with the cfg addressing button for the TU402 / 4 / 6 / 18.