
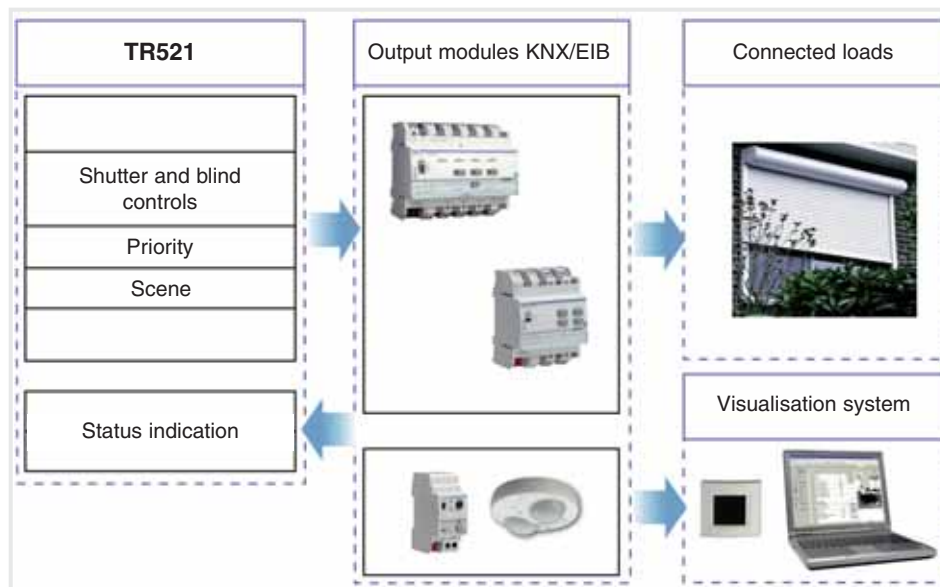


Tebis application software

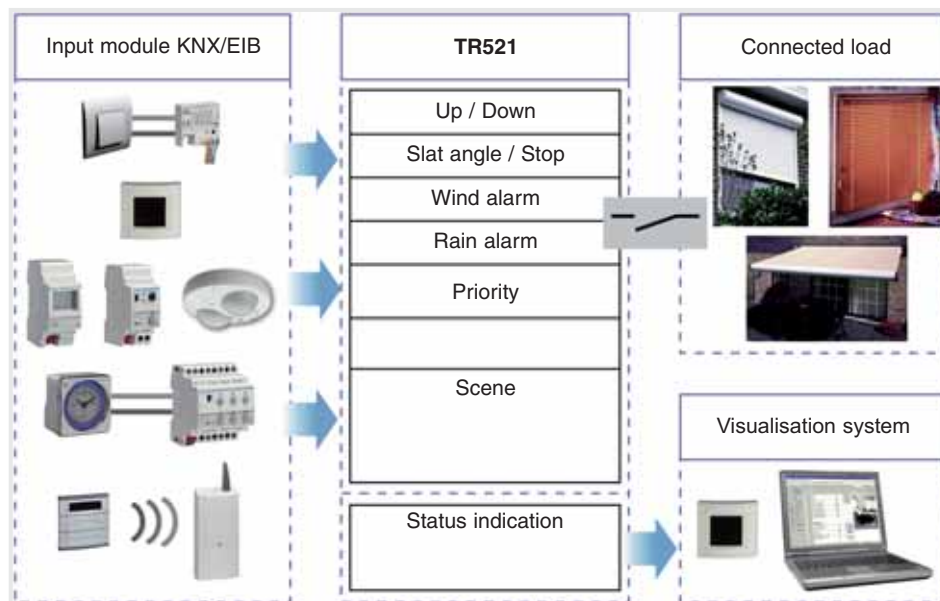
Input/output shutters/blinds product RF descriptions

	Product reference	Description
	TR521	2-fold inputs/1-fold output shutters/blinds embedded RF

Input



Shutters/blinds output



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1. Description of the functions

The application software of the STR521 can be used to configure the product's 2 inputs and its output. The main functions are as follows:

1.1 Input

■ Emission of controls:

The push buttons can emit controls for shutters and blinds, and scenes.

Emission of controls:

→ Shutters/blinds control

Up, Down, Stop, Angle of the Blind Slats, Priority, Wind Alarm, Rain Alarm
1 or 2-button control

■ Scene

The Scene function emits a group of controls to various types of output to create the desired room conditions or scenarios. Example of scene 1: Leaving the dwelling (central lighting control OFF, shutters on the south side lowered to 3/4, other shutters open, heating shifted to Eco mode).

■ Priority

The Priority function allows an input to be forced into a state defined as UP or DOWN.

■ Alarms

The alarm 1 and alarm 2 functions can emit alarms cyclically from the automatic controls (anemometer, rain detector, light sensitive switch, etc.). Alarm 1 has a higher priority than alarm 2.

1.2 Shutters/blinds output

■ Up / Down

The Up/Down function allows a shutter, a blind with tilting slats, an awning or a Venetian blind, etc. to be moved up or down. This function can also be used to open and close electric curtains.

The control may come from push buttons (long press), switches or automatic controls.

■ Slat angle / Stop

The slat angle/stop function allows the user to alter the angle of the blind slats or to stop its movement in progress. This function allows the user to modify the level of screening or to redirect light rays coming from outside.

Control comes from push buttons: A short press on the up/down push button.

■ Wind Alarm and Rain Alarm

The alarm functions allow the blinds or shutters to be set in a predefined, configurable state.

These functions have the highest priority. No other control is considered if an Alarm is active. Only an end-of-alarm can re-authorise the other controls.

■ Priority

The Priority function allows the user to force a shutter or blind into a defined position.

This control has priority, but a lower priority than the alarms. No other control is considered if a Priority is active. Only End-of-Priority controls or alarms will be considered.

■ Scene

The Scene function allows a set of outputs to be regrouped. These outputs can be set to a predefined, configurable status. A scene is activated by pressing on a single push button.

Each output can be included in 8 different scenes.

■ Status indication

The Status Indication 1-bit function allows the previous movement of the shutter or blind to be sent.

2. Configuration and parameter setting

2.1 Inputs

2.1.1 List of objects

Object	Functions			
	ON/OFF	1-button shutters/blinds	2-button shutters/blinds	Scene
Status indication		X		
Slat angle / Stop		X	X	
Up / Down		X	X	
Scene				X
Priority	X		X	
Alarms 1			X	
Alarms 2			X	

2.1.2 Setting the parameters

■ Parameter setting: Input channel function

The product can emit controls for lighting, shutters and blinds, heating settings and scenes.

→ Parameter setting screen

Parameters	Description	Value
Channel function	This parameter allows the type of function associated with each input to be selected.	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 Scenes 1-8 Default value: Shutters / blinds, Up

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

→ Shutters / blinds, Up / Down

This function allows the shutters or blinds to be controlled with a single button (Input). The function switches after each push (Down, STOP, Up, STOP). Altering the angle of the slats is not possible.

→ Shutters / blinds, Up

This function allows the shutters or blinds to be controlled from two push buttons (Inputs).

Emission of the Up control, on closure of the input contact or on pressing the push button, and emission of the **Slat angle / Stop** object (short press).

→ Shutters / blinds, Down. This function allows the shutters or blinds to be controlled from two push buttons (Inputs).

Emission of the Down control, on closure of the input contact or on pressing the push button, and emission of the **Slat angle / Stop** object (short press).

■ Channel function: Shutters / blinds, Alarm 1 - Shutters / blinds, Alarm 2

These functions enable cyclic emitting of alarms from the automatic controls (anemometer, rain detector, light sensitive switch, etc.).

To set the shutters to the security position in the event of bad weather: linking the Alarm 1 and Alarm 2 functions to the **Alarm 1** and **Alarm 2** objects of the Shutters / blinds output modules.

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

■ Channel function: Scenes 1-8

The Scene function emits a group of controls to various types of output to create the desired room conditions or scenarios. (Panic switch, television, etc.).

The value of the **Scene** object is defined at the time of selection of the function.

2.2 Shutters/blinds output

2.2.1 List of objects

Number	Name	Object Function	Description	Group Addresses	Length	C	R	W	T	U	Data Type	Priority
0	Output 1	Up / Down			1 bit	C	R	W	-	U		Low
1	Output 1	Slat angle / Stop			1 bit	C	R	W	-	U		Low
2	Output 1	Priority			2 bit	C	R	W	-	U		Low
3	Output 1	Alarm 1			1 bit	C	R	W	-	U		Low
4	Output 1	Alarm 2			1 bit	C	R	W	-	U		Low
5	Output 1	Scene			1 Byte	C	R	W	-	U		Low
6	Output 1	Status indication			1 bit	C	R	-	T	U		Low
8	Input 1	Slat angle / Stop			1 bit	C	R	-	T	-		Low
9	Input 1	Up / Down			1 bit	C	R	-	T	-		Low
14	Input 2	Slat angle / Stop			1 bit	C	R	-	T	-		Low
15	Input 2	Up / Down			1 bit	C	R	-	T	-		Low

2.2.2 Setting the parameters

■ Up / Down and Status indication

The Up/Down function allows a shutter, a blind with tilting slats, an awning or a Venetian blind, etc. to be moved Up or Down.

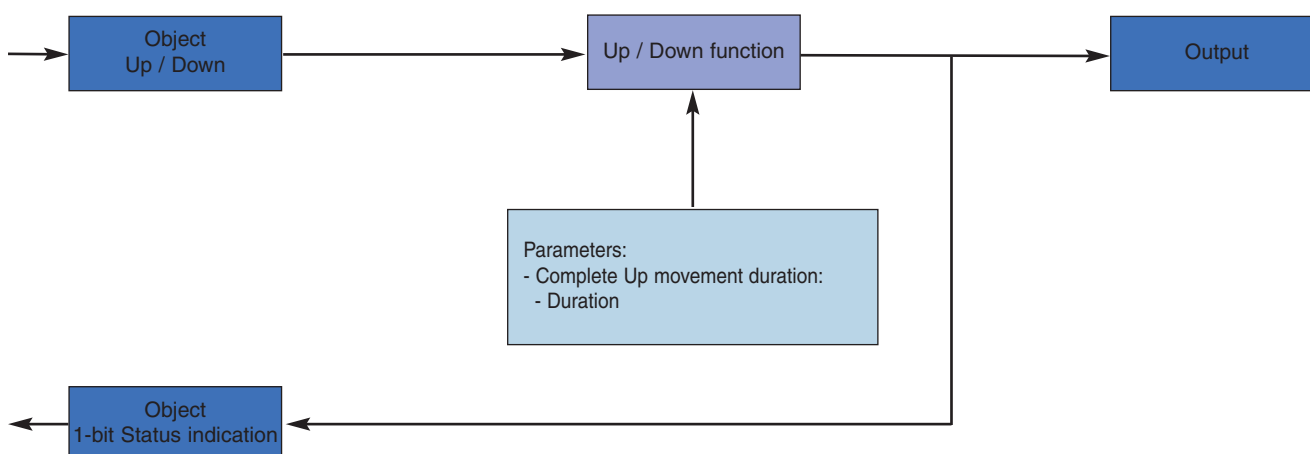
This function can also be used to open and close electric curtains.

The control may come from push buttons (long press), switches or automatic controls.

Description of the Status indication 1-bit object:

0 : last upward movement

1 : last download movement

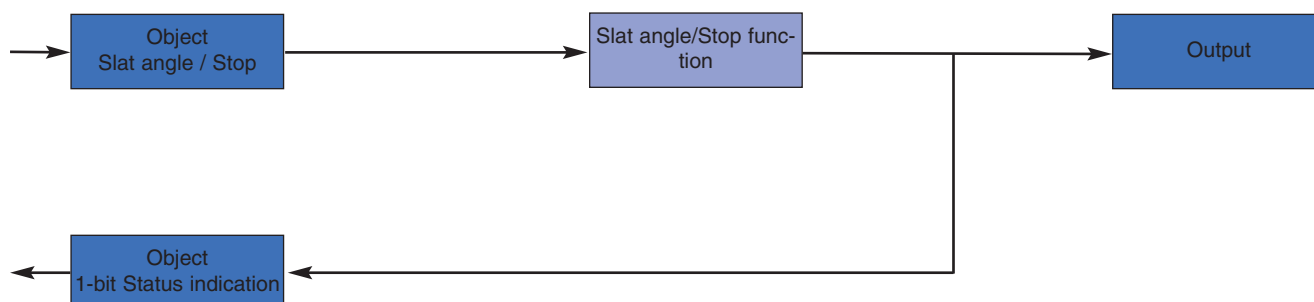


→ Parameters

Parameters	Description	Values
Complete Up movement duration	This parameter defines the duration of contact closure for a complete Up movement.	0 to 500 s in steps of 1 s Default value: 120 s.

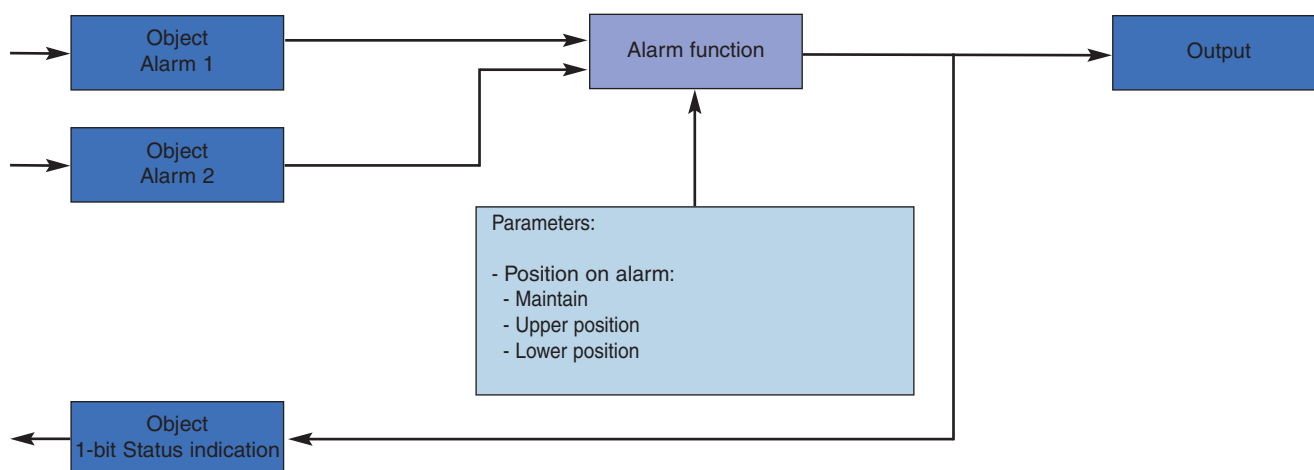
■ Slat angle / Stop function

The slat angle/stop function allows the user to alter the angle of the blind slats or to stop its movement in progress. This function allows the user to modify the level of screening or to redirect light rays coming from outside. This function is engaged by the Slat angle / Stop object. The desired angle is obtained by a succession of control pulses.



■ Alarm 1 and Alarm 2 functions

The alarm functions allow the blinds or shutters to be set in a predefined, configurable state. The wind alarm is engaged by the **Alarm 1** object and the rain alarm by the **Alarm 2** object. These functions have the highest priority. Alarm 1 has a higher priority than alarm 2. No other control is considered if an alarm is active. Only an end-of-alarm can re-authorise the other controls.



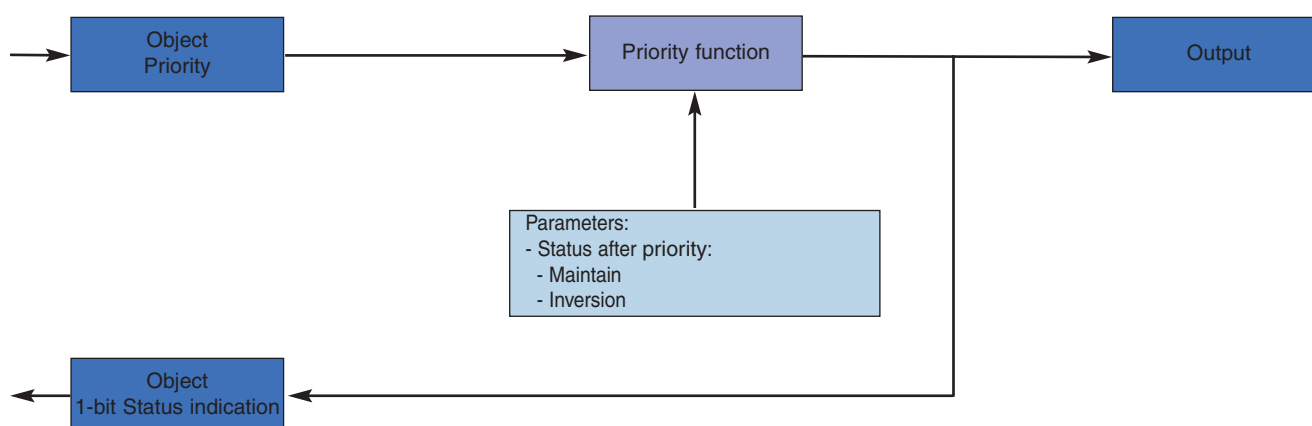
→ Parameters

Parameters	Description	Values
Position on alarm	This parameter defines the position of the blind or shutter when the Wind Alarm function is activated.	Maintain, Upper position, Lower position. Default value: Maintain.

■ Priority function

The Priority function allows the user to force a shutter or blind into a defined position. This function is started by the **Priority** object.

This control has priority, but a lower priority than the alarms. No other control is considered if a Priority is active. Only End-of-Priority controls or alarms will be considered.



→ Description of the **Priority** object.

Value	Behaviour of the output
00	End-of-Priority
01	End-of-Priority
10	Priority ON (Up)
11	Priority OFF (Down)

Parameters	Description	Values
Status after priority	This parameter defines the status of the output after a Priority.	Maintain, Inversion - Maintain: maintains the output in the status which existed before the Priority. - Inversion: inversion of the output status with respect to that which existed before the Priority (Down goes to Up and Up goes to Down). Default value: Maintain.

3. Main characteristics

Product	TR521
Maximum number of group addresses	32
Maximum number of associations	50
Parameters	8
Objects	11

4. Physical address

Physical addressing of the radio products is done from the plug-in of the TR131. In the “Physical addressing” menu, select “Physical addressing”, then follow the instructions which appear on the screen.

Default input / output links exist in the products but are none the less invisible in ETS. To configure the product, proceed as if these links did not exist.

5. Return to factory settings

The return to the factory settings of the radio products is done from the plug-in of the TR131.

- If the product forms part of the installation (recognised by the TR131): In the “Physical addressing” menu, select “Return to factory settings”, then follow the instructions which appear on the screen.
- If the product does not form part of the installation (unrecognised by the TR131): In the menu “Physical addressing”, select “Product outside installation”, select “Bi-directional product”, then follow the instructions which appear on the screen.

