Tebis application software

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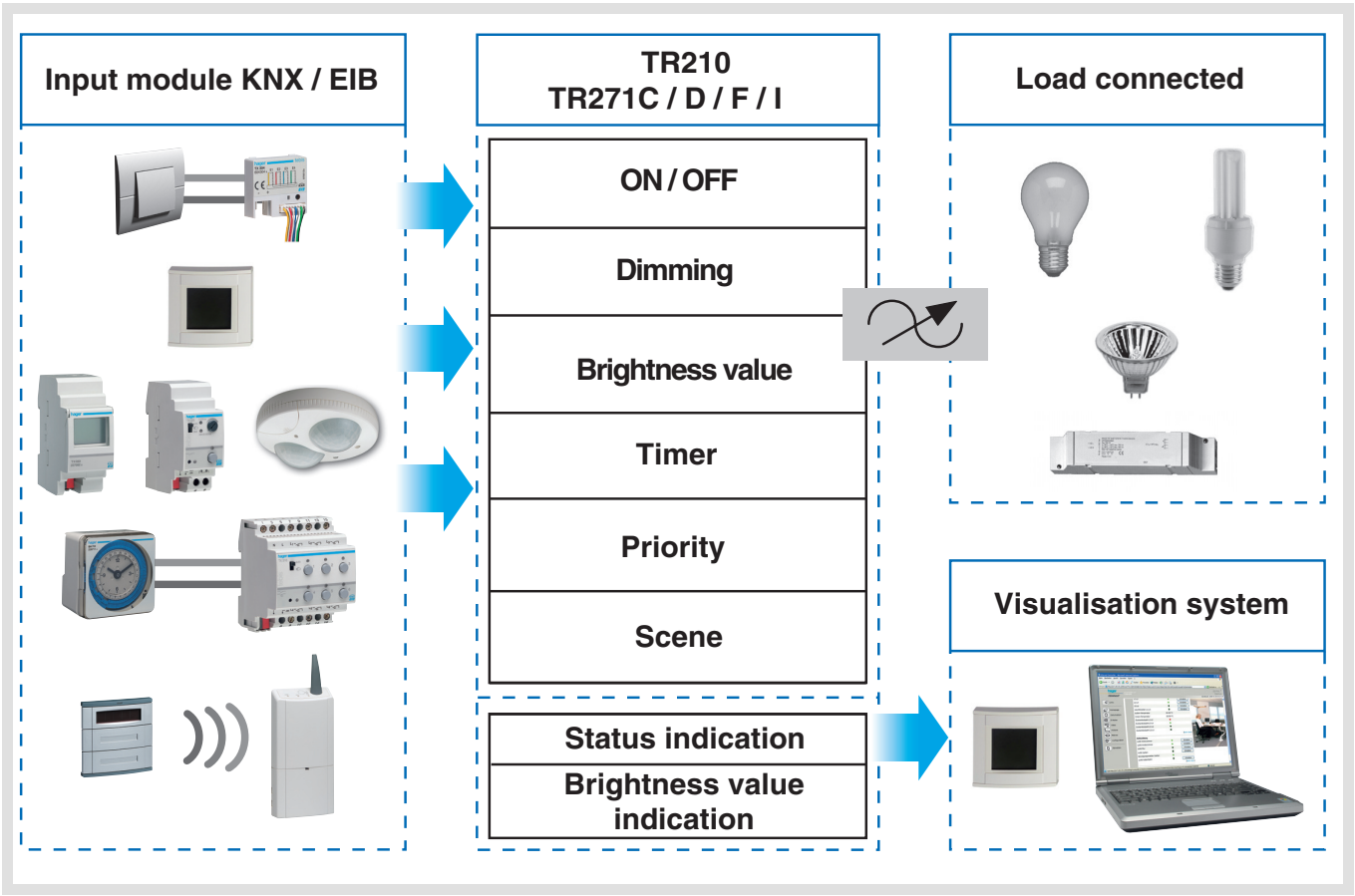
Description of the dimmer output products RF

	Product reference	Product designation
	TR210	Dimmer 1 x 200W RF
	TR271F / D / C / I	Dimmer plug adaptor 1 x 300W RF



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1. Function Description

The application softwares allow each output to be individually configurated for Dimming applications.

The main functions are the flollowing:

ON / OFF

The ON / OFF function is used to switch a lighting circuit ON or OFF.

- ON: switching ON at the lighting level defined by parameters. Switching ON can be gradual or instantaneous.
- OFF: switching OFF. Switching off can be progressive or instantaneous.

The control can come from push buttons.

Relative or absolute dimming (Brightness value)

The relative dimming allows increasing or decreasing the lighting level as long as a push button is pressed down. The absolute dimming allows defining in % the lighting level to reach by means of the **Lighting level** object.

Timer

The Timer function is used to switch a lighting circuit ON or OFF for an adjustable time. Depending on the operation mode selected, the output may be delayed for ON or OFF switching. An adjustable cut-OFF pre-warning indicates the end of the delay time by dividing the lighting level by two. The Timer function can be interrupted via a long key press before the time delay expires.

Priority

The Priority function allows overriding an output to an adjustable lighting level. This command has the highest priority. No other command is taken into account if a priority is active. Only a priority end command re-enables the other commands.

Application: Maintaining lighting ON for safety reasons .

Scene

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.

2. Configuration and settings

2.1 Objects List

Number	Name	Object Function	Description	Group Addresses	Length	C	R	W	T	U	Data Type	Priority
0	Output 1	ON / OFF			1 bit	C	R	W	-	-		Low
1	Output 1	Dimming			4 bit	C	R	W	-	-		Low
2	Output 1	Brightness value			1 Byte	C	R	W	-	-		Low
3	Output 1	Timer			1 bit	C	R	W	-	-		Low
4	Output 1	Priority			2 bit	C	R	W	-	-		Low
5	Output 1	Scene			1 Byte	C	R	W	-	-		Low
6	Output 1	Status indication			1 bit	C	R	-	T	U		Low
7	Output 1	Brightness value indication			1 Byte	C	R	-	T	U		Low

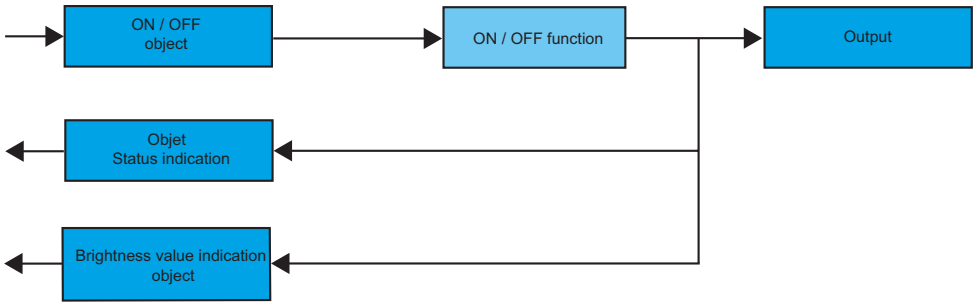
2.2 Parameter setting

ON / OFF, Status indication and Brightness value indication functions

The ON / OFF function is used to switch the output ON or OFF.

- ON: switching on at the level of lighting active the last time the lighting was switched on.
- OFF: switching OFF.

The output status and the lighting level are indicated on the bus by the **Status indication** object and **Brightness value indication** object.



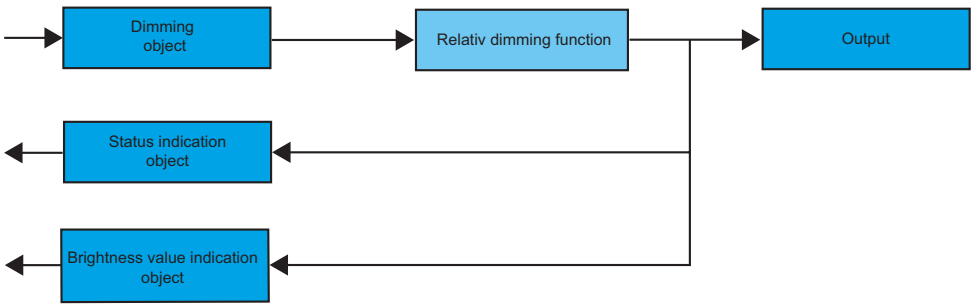
Dimming function

The dimming can be relative or absolute.

- Relative dimming

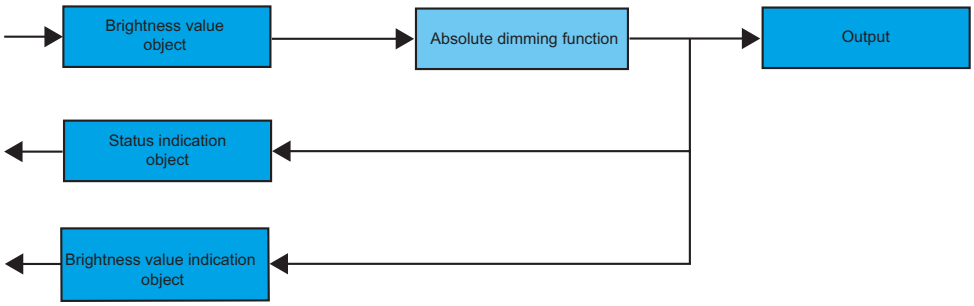
The relative dimming allows increasing or decreasing the lighting level of the lighting circuit as long as a push button is pressed down.

The relative dimming function is started by the **Dimming** object.



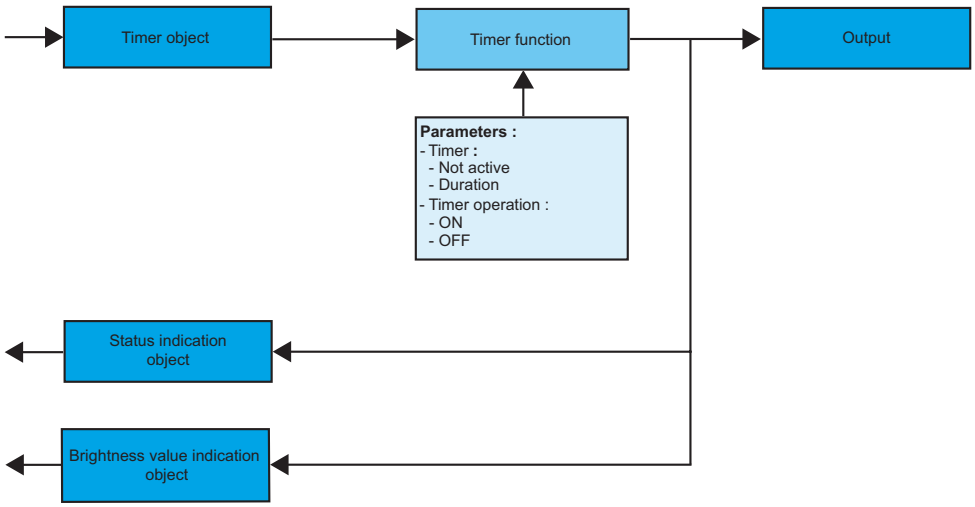
- Absolute dimming

The Absolute dimming function allows applying a brightness level to the lighting circuit when switching it ON or OFF.
The absolute dimming function is started by the **Brightness value** object.



Timer functions

The Timer function is used to switch a lighting circuit ON or OFF for an adjustable time. The function is started by the **Timer** object.
An adjustable cut-OFF pre-warning indicates the end of the delay time by dividing the lighting level by two. The Cut-OFF **pre-warning** parameter value defines the time before the end of the delay time, when the pre-warning will be applied.



➜ Parameters

Designation	Description	Values
Timer	This parameter defines the length of the delay time.	Not active, Range [1 s 24 h]*. Default value: 3 min.
Timer operation	This parameter defines whether the delay time triggers an ON or an OFF status.	ON, OFF. Default value: ON.

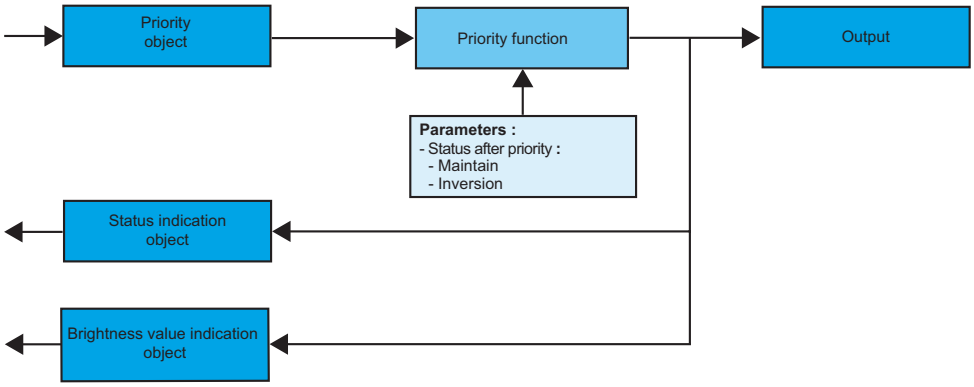
*Setting range [1 s 24 h]
1 s, 2 s, 3 s, 5 s, 10 s, 15 s, 20 s, 30 s, 40 s, 45 s, 50 s, 1 min, 1 min 15 s, 1 min 30 s, 2 min, 2 min 30 s, 3 min, 4 min, 5 min, 6 min, 7 min, 8 min, 9 min, 10 min, 11 min, 12 min, 13 min, 14 min, 15 min, 20 min, 30 min, 40 min, 50 min, 1 h, 1 h 30 min, 2 h, 2 h 30 min, 3 h, 3 h 30 min, 4 h, 5 h, 6 h, 12 h, 24 h.

Priority function

The Priority function allows the outputs to be forced and maintained at a definite ON or OFF status imposed by the input. This function is started by the **Priority** object.
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.

➜ Description of the **Priority** object

Value	Output behaviour
00	Priority end
01	Priority end
10	Priority ON
11	Priority OFF



➜ Parameter

Designation	Description	Values
Status after priority	This parameter defines the level of lighting applied at the end of the priority.	Maintain, Inversion. - Maintain: The output is maintained in the status which was active before the priority. - Inversion: Inversion of the output's status with regards to the status active during Priority (ON to OFF and OFF to ON). Default value: Maintain.

3. Main characteristics

Product	TR210	TR271C / D / F / I
Max. number of group addresses	32	32
Max. number of links	50	50
Parameters	4	4
Objects	8	8

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**, select **Two-way product** then follow the instructions which appear on the screen.