

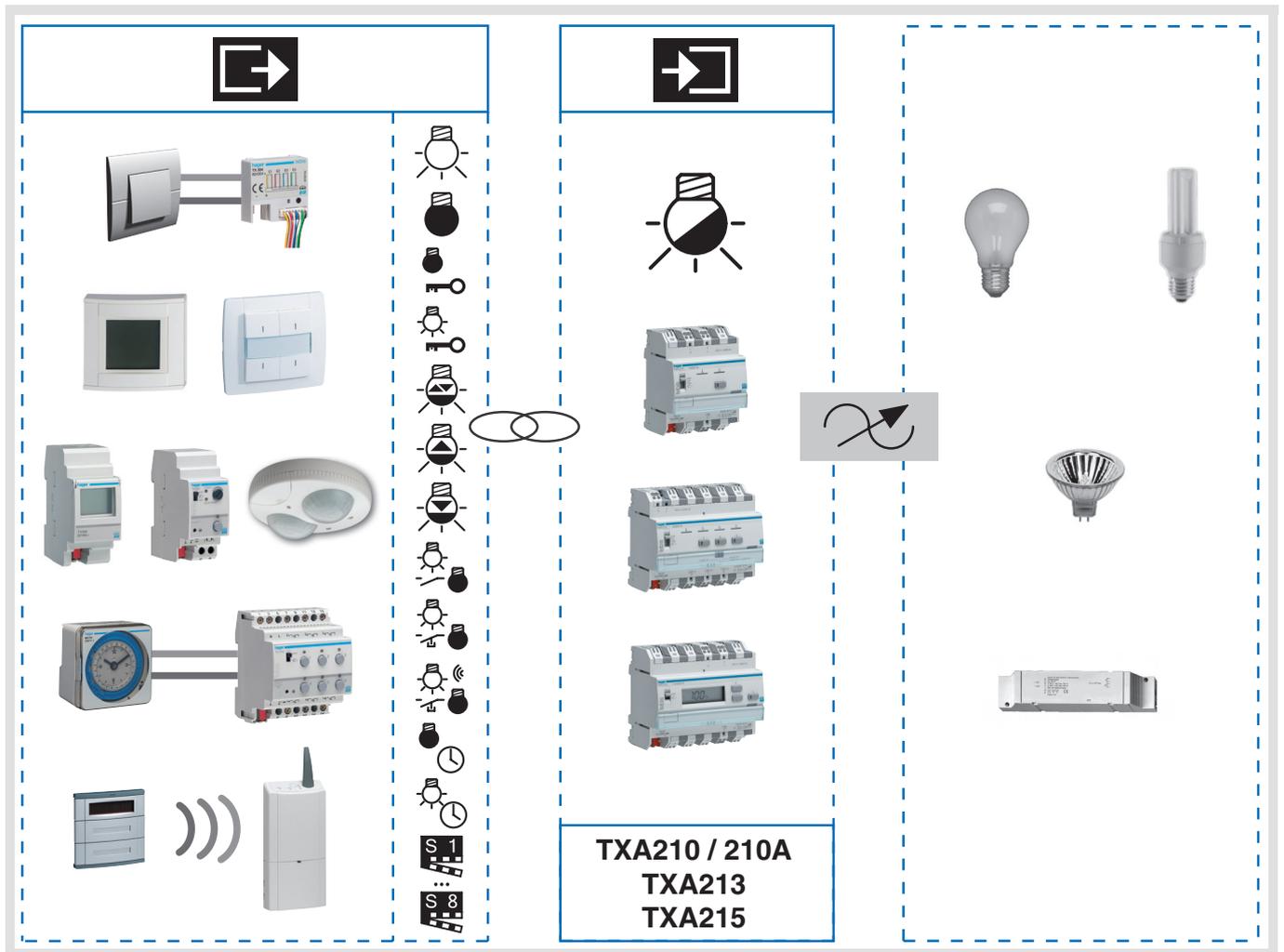
Configurator Tebis TX100



Dimming light functions

Electrical / Mechanical characteristics : see product user's instructions

	Product reference	Product designation	Version TX100	TP device	RF device
	TXA 210A	Dimmer 1x300W	≥ 1.4.1		
TXA 210	Dimmer 1x600W	≥ 1.4.1			
TXA 213	Dimmer 3x300W	≥ 1.4.1			
TXA 215	Dimmer 1x1000W	≥ 1.4.1			



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1. Presentation of the Dimming functions

The main functions of the Dimming Light application are the following :

■ ON/OFF function

The ON/OFF function allows ON or OFF switching of a lighting circuit :

ON : switching ON at the last memorized lighting level.

OFF : lights out.

The command may come from pushbuttons.

■ Dimming

The dimming allows increasing or decreasing the lighting level as long as a pushbutton is pressed down.

■ Timer

The Timer function allows ON or OFF switching of a lighting circuit for an adjustable time. Depending on the timer operation selected, the output may be delayed for ON or OFF.

■ Priority

The Priority function allows overriding an output to ON 100% or OFF. This command has the highest priority. No other command is taken into consideration if a priority is active. Only a priority end command enables again the other commands.

Application : maintaining a lighting ON for safety reasons.

■ Scene

The Scene function allows grouping a set of outputs. These outputs can be put in a parameterisable predefined status.

Pressing one single pushbutton activates a scene.

Each output may be integrated in 8 different scenes.

■ Setting of minimum and maximum dimming values

This function allows defining minimum and maximum lighting levels for the output.

These values can be defined directly on the front of the product (see user's instructions).

■ Manual mode

The Manual mode isolates the product from the bus.

In this mode, the brightness of the lighting circuit can be forced locally.

■ TXA 215 specific functions

In addition to previous functions, the TXA 215 is fitted with a display and enable local settings for the output (see user's instructions) :

- Switch ON speed,
- Cut OFF speed,
- brightness value and dimming speed of the 8 scenes.

■ TXA 213 specific functions

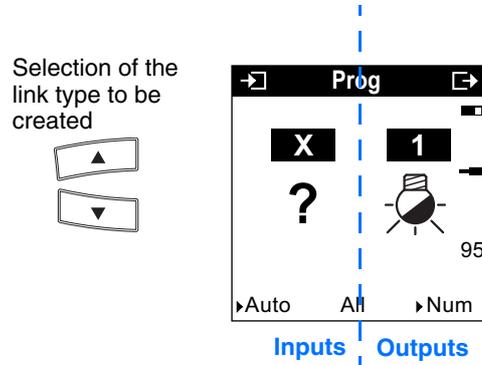
On the TXA 213, can be selected 1 up to 3 dimming outputs. The maximum power available by output depends on the number of outputs used. The cumulated power is limited to 900W :

- 1 output used : 900W
- 2 outputs used : one output 600W and one output 300W
- 3 outputs used : 300W by output

2. Configuration and parameters of the Dimming functions (creating links in Standard mode)

After product learning , the dimming output is symbolized by the icon  on the right part of TX100 display. After numbering the inputs, the available inputs will appear on the left part of the display.

TX100 display :



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

Possible link type	Link description	Output operation
 ON	The ON function allows switching the lighting circuit ON.	Closing of the input contact → the light switches ON at the last lighting level stored. Successive closings maintain the last lighting level stored.
 OFF	The OFF function allows switching the lighting circuit OFF.	Closing of the input contact → Switching OFF the light at 0%. Successive closings maintain the switching OFF.
 Pushbutton	The Pushbutton function allows inverting the status of the lighting circuit.	Closing of the input contact → Toggle between switching ON at the last level stored and switching OFF at 0%. Every successive closing inverts the status of the output.
 1 button dimmer	The 1-button Dimmer function allows dimming the light with one single pushbutton.	Short closing of the input contact → Toggle between switching ON at the last level stored and switching OFF at 0%. long closing of the input contact → Increase or reduction of the lighting level.
 2-buttons dimmer: Increase	The Increase Function allows increasing the output level.	Short closing of the input contact → the light switches ON at the last lighting level stored. long closing of the input contact → Increase of the lighting level.
 2-buttons dimmer: Reduction	The Reduction function allows decreasing the output level.	Short closing of the input contact → Switching OFF of the light. long closing of the input contact → Reduction of the lighting level.
 Switch	The Switch function allows switching the lighting circuit ON or OFF	Closing of the input contact → the light switches ON at the last lighting level stored. Opening of the input contact → Switching OFF the light at 0%.

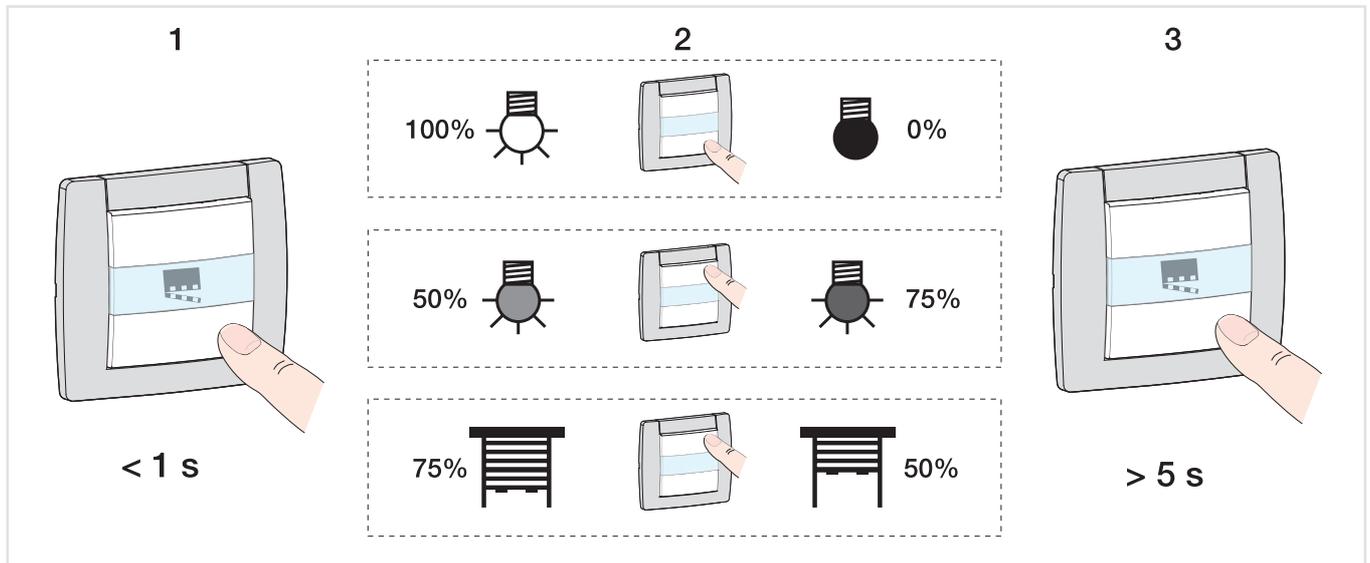
Possible link type	Link description	Output operation
	<p>Timer ON</p> <p>The Timer ON function allows switching the lighting circuit ON for an adjustable time.</p> <p>After confirming the link, select the duration of the delay time : Setting range [0 s 24 h]</p> <p>Inactive, 1 s, 2 s, 3 s, 5 s, 10 s, 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.</p>	<p>Short closing (<1 s) of the input contact → Delayed switching ON of the light (at the last level stored).</p> <p>Timer interruption : Long closing (>1 s) of the input contact → Stop of the current delay and switching OFF at 0% (OFF).</p>
	<p>Timer OFF</p> <p>The Timer OFF function allows switching the lighting circuit OFF for an adjustable time.</p> <p>After confirming the link, select the duration of the delay time : Setting range [0 s 24 h]</p> <p>Inactive, 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.</p>	<p>Short closing (<1 s) of the input contact → Delayed switching OFF of the light.</p> <p>Timer interruption : Long closing (>1 s) of the input contact → Stop of the current delay and switching ON of the light at the last level stored.</p>
	<p>ON priority</p> <p>The ON priority function allows forcing the lighting circuit ON and maintaining it ON.</p>	<p>The ON priority switches the light ON at 100%, whatever the stored level.</p> <p>The OFF priority switches the light OFF at 0%.</p> <p>Priority is the function with the highest priority. Only a priority end command ends the Priority and allows again the commands from the bus to be taken into consideration.</p>
	<p>OFF priority</p> <p>The OFF priority function allows forcing the lighting circuit OFF and maintaining it OFF.</p>	<p>After confirming the link, select the end of priority behaviour :</p> <ul style="list-style-type: none"> - Maintain : the output is maintained in the same status as during the priority. - Inversion : the output is inverted with regards to the status active during Priority.
	<p>Scene 1 to 8</p> <p>The Scene function allows grouping a set of outputs.</p> <p>These outputs can be put in a parameterisable predefined status.</p> <p>Pressing one single pushbutton activates a scene.</p> <p>Each output may be integrated in 8 different scenes.</p>	<p>The group of outputs is created previously by establishing the link between the outputs that must belong to the scene and the pushbutton that will trigger the scene.</p> <p>The status of each output may be defined by parameterising, by learning in the room using the pushbuttons of the installation or on the product.</p>

■ Learning and storing the scenes

A. Learning and storing in the room

This procedure allows modifying and storing a scene by means of local action on the pushbuttons located in the room.

- Activate the scene pressing briefly on the room pushbutton that triggers the scene.
- Set the outputs to the desired status using the pushbuttons that control them individually.
- Store the status of the outputs pressing for more than 5 sec the room pushbutton that triggers the scene. The storage is indicated by the status inversion of the involved outputs for 3 sec.



B. Learning on the product

This procedure allows modifying a scene by means of local action on the pushbuttons located on the front side of the products.

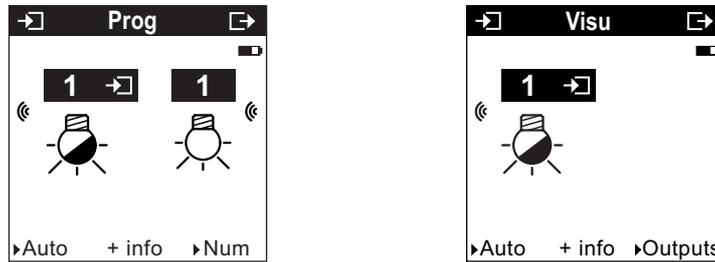
- Activate the scene pressing briefly on the room pushbutton that triggers the scene.
- Set the dimmer in Manual mode and press the pushbuttons linked with the outputs to put the outputs in the desired status.
- Return to the Auto mode.
- Store the scene pressing for more than 5 sec the pushbutton that triggers the scene.
- The storage is indicated by the status inversion of the involved outputs for 3 sec.

■ Default values

Designation	Description	Non modifiable default value
Status during bus failure	This parameter defines the output status to be applied during Bus failure.	Storing
Status at bus return	This parameter defines the output status to be applied when the Bus returns.	Storing
Timer operation	This parameter defines whether the delay time triggers an ON or an OFF status.	ON
Timer interruption	This parameter allows or not the interruption of the timer when the associated pushbutton is pressed for a long time.	Interruptible timer

3. +info mode

The +info mode can be reached from the Prog and Visu modes of the TX100. This display mode is active for all products of the Installation up to its deactivation.



The +info mode allows linking the status indication of an output with a display device : room controller, indicator light-type output, etc.

At each status change, the status indication emits the real status of the output on the system.



The status indication is represented by the  symbol.

The status indication is added to the inputs list on the left side of the TX100 screen, with the same number as the output.

4. Expert mode and Creation of specific links

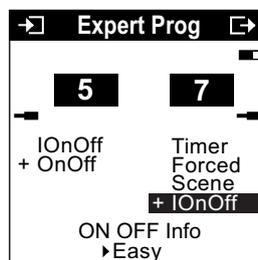
■ General points

The Expert mode allows :

- EIB products which are not configurable by ETS (visualisation tool, Internet gateway) to be integrated into 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 TX100	Function	Format	Description
OnOff	On/Off	ON/OFF	EIS1 1 Bit	Allows sending an ON/OFF command.
IOOnOff	InfoOn/Off	ON/OFF information	EIS1 1 Bit	Indicates the status of the output.
DimCtrl	DimmingCtrl	Dimming control	1 Bit	Allows changing the output level of a dimmer.
DimVal	DimmingValue	Absolute dimming	EIS2	Allows setting, in %, the output level of a dimmer.
IDimVal	InfoDimmingValue	Info absolute dimming	EIS2	Indicates the lighting level of the output in%.
Timer	TimedStartstop	Timer	EIS1 1 Bit	Allows activating or stopping a timer.
Forced	Forced	Priority	EIS2 2 Bit	Allows overriding an output.
Scene	SceneNumber	Scene	1 Byte	Allows activating the scene using its number.

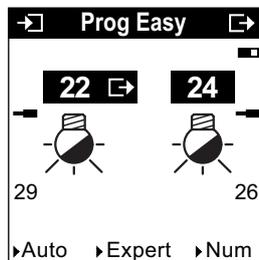
■ Specific links

The Expert mode allows displaying the objects linked with the inputs and outputs compatible among them to create specific links. To set up a link, simply assign the same group address to the objects.

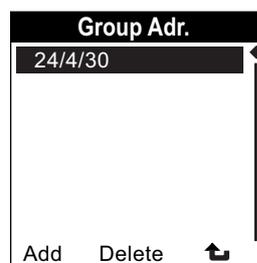
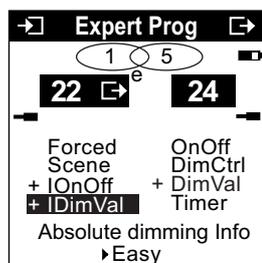
Example

A system is required, in which a dimmer TXA 215 operates as the slave of a dimmer TXA 215 and displays the lighting level of the 2 outputs :

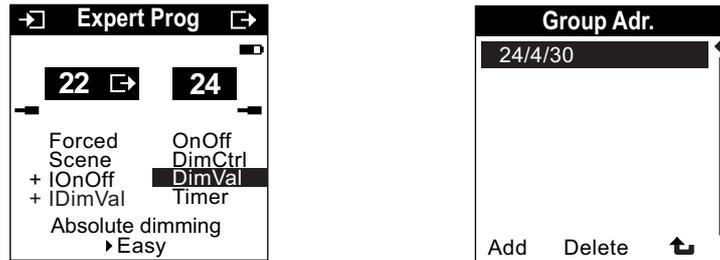
- Enter the Expert Configuration mode of the TX100 (Menu/ExpertStandard mode of the TX100)
- Select the dimmer output of the TXA 210 on the left part of the display (output 22 with symbol ).
- Select the output of the TXA 215 dimmer on the right part of the display (example output 24) :



- Enter the Expert mode to display the available objects (Expert screen key).
- Go to the left part of the screen.
- Select object IDimVal of output 22 and create any free group address (press briefly  to reach the Adr.Groupe screen) :



Exit and go to the right part of the screen (press Num). Select object DimVal of output 24 and assign it the same group address :



Exit and confirm the link (press  for a long time). The letter "e" is displayed underneath the "link" symbol to indicate that the link is an Expert link :



The link created this way allows operating the output of dimmer TXA 215 as a slave of TXA 210 and displaying the common lighting level value of the 2 outputs on the LCD display of the TXA 215.

5. Factory setting function (Reset)

This function allows resetting the product to its original configuration (factory settings).

After a device reset, the product can be re-used in a new installation.

This function is accessible through the menu Device Management/Reset of the TX100.

There are 2 different cases :

- The product belongs to the installation : it appears in the list of the Reset menu, this is a list of all products that can be reset to factory configuration. Select the product in the list, press  and confirm the cancellation.
- The product does not belong to the installation :
 - Select not install. Device in the Reset menu.
 - Press the  key.
 - Select TP.
 - Press the  key.
 - Press the physical addressing lighted pushbutton to detect the product.
 - Press the screen key .

After a device reset, the installation must be learnt again in order to find again the products reset to factory configuration.

6. Auto/Manu mode

The Auto/Manu switch is located on the front side of the product.

This switch allows selecting the Manual mode or the Auto mode.

- In Manual mode, the outputs may be controlled using the pushbuttons on the front side of the product.
- In Auto mode, the outputs are controlled by the instructions coming from the bus.

7. Characteristics

Max. number of group addresses	252
Max. number of links	254
Objects	8 per output, 2 for the localisation : - 26 total (TXA 213) - 10 total (TXA 210, TXA 210A and TXA 215)

8. Bus presence test

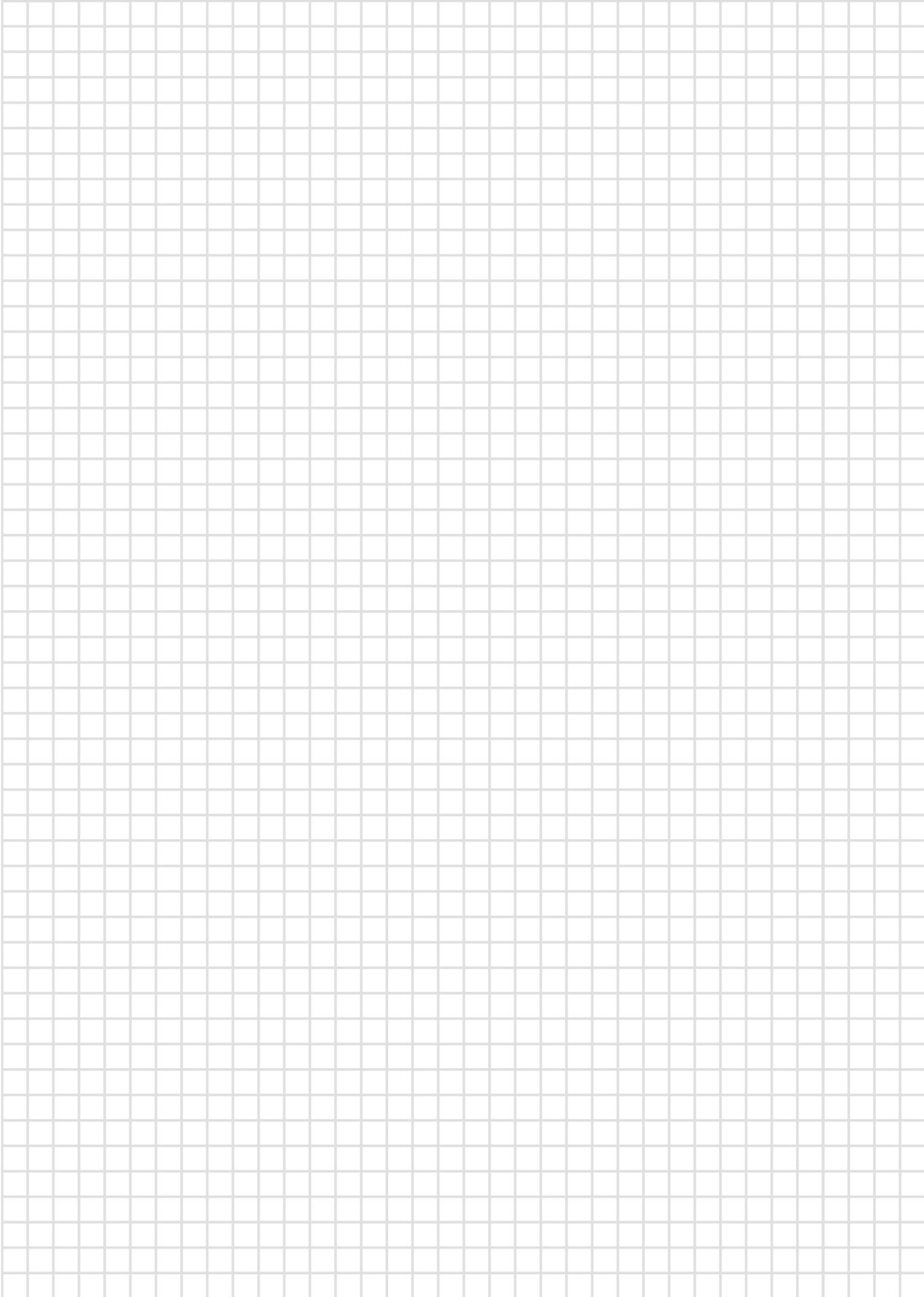
To check for the presence of the bus or carry out a device reset, press the physical addressing lighted pushbutton located above the label holder on the right of the product.

Indicator on = bus presence.

Press a second time to exit this mode.

The test may be performed in Auto mode or in Manual (↔) mode.

NOTA



NOTA

