











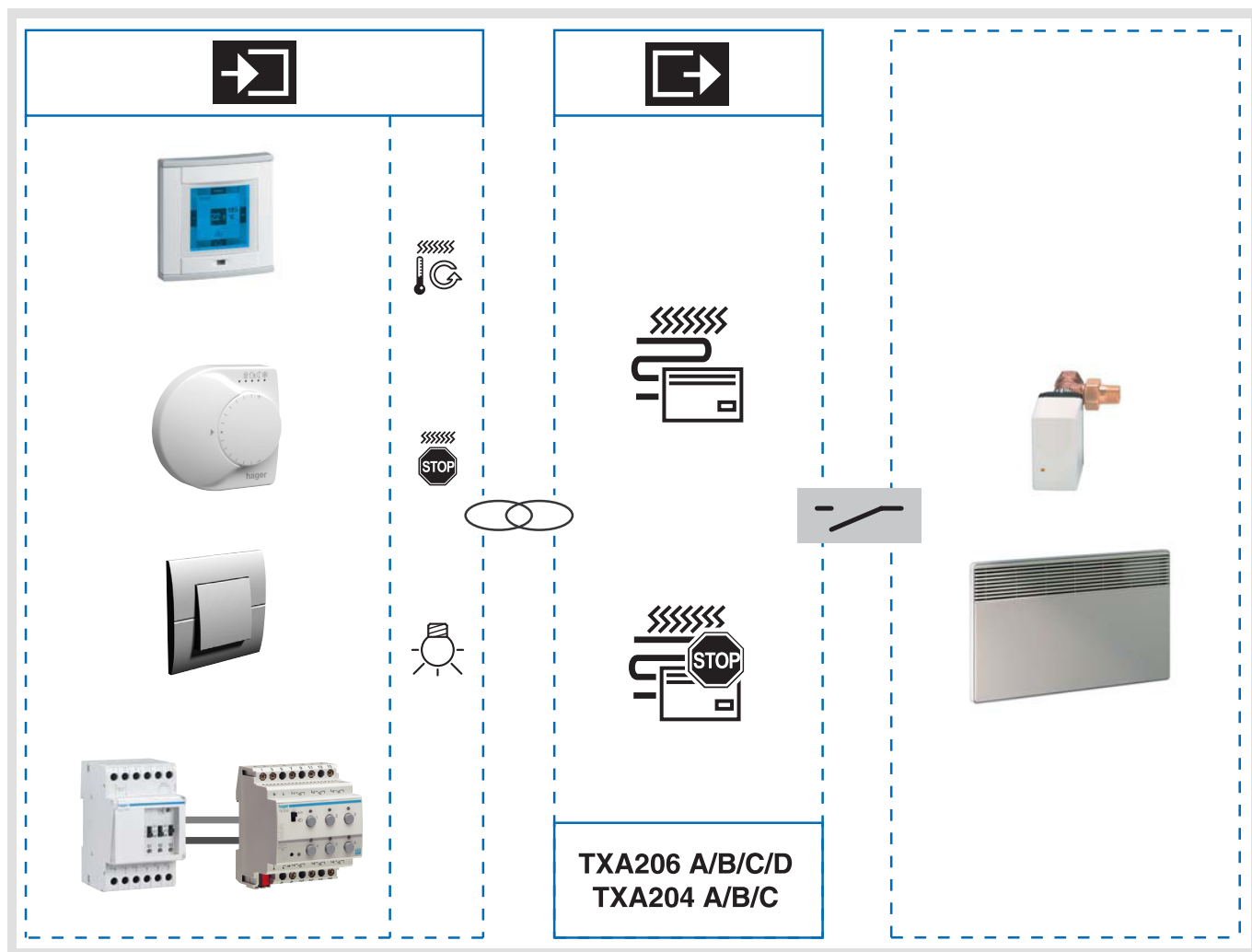
## Configurator Tebis TX100



Heating functions

Electrical / Mechanical characteristics : see product user's instructions

	Product reference	Product designation	Version TX100	TP device  RF device 
	TXA 204A	Output module 4-fold 4A 230V~	≥ 1.4.6	
	TXA 204B	Output module 4-fold 10A 230V~	≥ 1.4.6	
	TXA 204C	Output module 4-fold 16A 230V~	≥ 1.4.6	
	TXA 206A	Output module 6-fold 4A 230V~	≥ 1.4.6	
	TXA 206B	Output module 6-fold 6A 230V~	≥ 1.4.6	
	TXA 206C	Output module 6-fold 16A 230V~	≥ 1.4.6	



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## 1. Presentation of heating functions

The main functions of the Heating application are the following :

### ■ Time-proportional control

The Time-proportional control function allows controlling :

- hot water heating : valve, circulation pump, burner.
- electrical heating : electrical floor heating, convectors, other electrical systems.

### ■ Load-shedding

In case of electrical heating, the load-shedding function stops one output if the subscribed power is exceeded.

### ■ Stop

Allows switching off the heating totally, especially in Summer.

### ■ Manual mode

The Manual mode isolates the product from the bus.

In this mode, it is possible to override manually each output.



## 2. Selection of heating mode for all outputs

In the Easy configuration, the outputs of products TXA 206 or TXA 204 can be either in Lighting mode (all outputs are Lighting outputs) or in Heating mode (all outputs are Heating outputs).

In "factory setting" status (product in its original status, or reset to this status), the products are by default in Lighting mode. To switch to Heating mode, put the switch which is on the front side on Manual and within 5 sec after after being put under supply, press for more than 3 sec simultaneously on pushbuttons 1 and 2 on front side. This operation is only possible if no configuration on Lighting mode has been made.

The switching to Heating mode is indicated by LEDs blinking on front side for 5 sec.

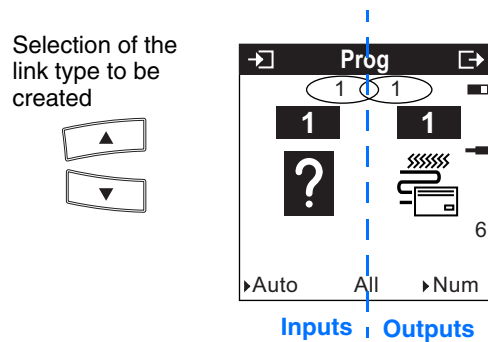
## 3. Links and description of Heating functions in Standard mode



After product learning , the outputs are 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.

The function of a product output is defined by the type of link established between input and output. Each product output can be associated with an input with a particular type of link. The link type is selected on the input on the left part of TX100 display (refer to the table).





TX100 display :



Note : Each output  represents a relay output of the heating products. There is a particular output, represented by . It allows all the outputs to be selected at once. It is used to put the whole product in Heating OFF mode.

After numbering the inputs and assignment of functions, the left part of the display shows the input functions which may be linked to outputs.

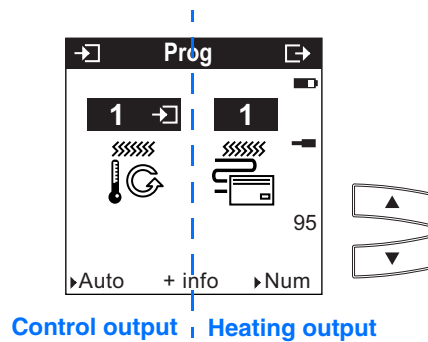
The table here after shows all type of links compatible with the product.

Possible link type	Link description	Output operation
 Heating OFF (to be linked with the output  )	The function Heating OFF allows the heating to be stopped immediately : all running cycles are stopped and all outputs are opened.	The associated input contact is of a switch type. The closing of this contact will cause the contacts of all the outputs to open. The Heating OFF command has the highest priority.
 Load-shedding	In case of electrical heating, the load-shedding function stops one output if the subscribed power is exceeded.	The associated input contact is of a switch type (e.g. output of a standard load shedder). The closing of this contact will cause the opening of the output contact during the load shedding time, and the running cycle is interrupted. At the end of the load shedding, the heating rate will retake the last value sent by the regulator.
 Regulation	See +info mode	

## 4. +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 a thermostat (e.g. TX460) output to be linked to an heating output.



The thermostat is selected on the left part of the display.

The Time-proportional control function allows the output to be closed and opened cyclically. The heating rate corresponds to the length of contact closing time in relation with the total cycle length. The total cycle length is 10 min.

## 5. Expert mode

### ■ 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 will appear as a list under inputs and outputs.





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	Function	Format	Description
<b>OFF command</b>			
HvacEna	Heating OFF	1 Bit	OFF object sent by a pushbutton.
<b>Heating commands</b>			
LogValue	Outputs load shedding	1 Bit	Load shedding object sent by a load shedder.
Value	Temperature regulation (Heating rate)	1 Byte	Heating rate object sent by a thermostat.

## 6. 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 :
  - Press the  key.
  - Select TP.
  - Press the  key.
  - Press the physical addressing lighted pushbutton to detect the product.
  - Press the screen key  .

After the device reset operation, the product is configured in lighting mode. After a device reset, the installation must be learnt again in order to find again the products reset to factory configuration.

## 7. 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.

## 8. Characteristics


Max. number of group addresses	254
Max. number of links	255
Max. simultaneous switching frequency of all outputs of the product	$\geq 2$ s
Max. number of outputs per installation	254

## 9. Bus presence test

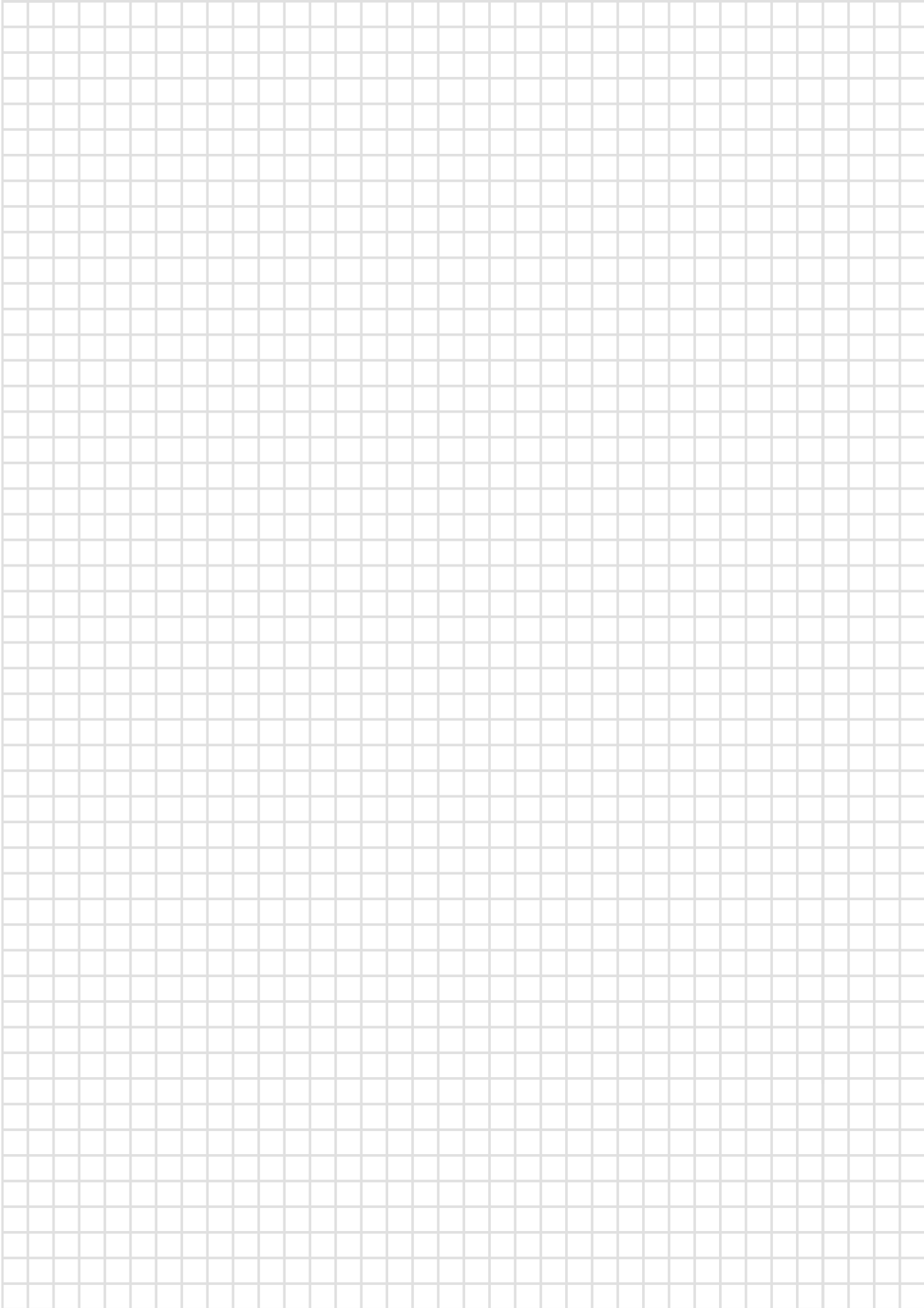
To check for the presence of the bus or carry out a device reset, press the physical addressing lighted pushbutton located above the label holder on the right of the product.

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



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