EN

USER MANUAL

SimpleProg

SimpleProg Software 4.7.0

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1. Software installation

Minimum system requirements

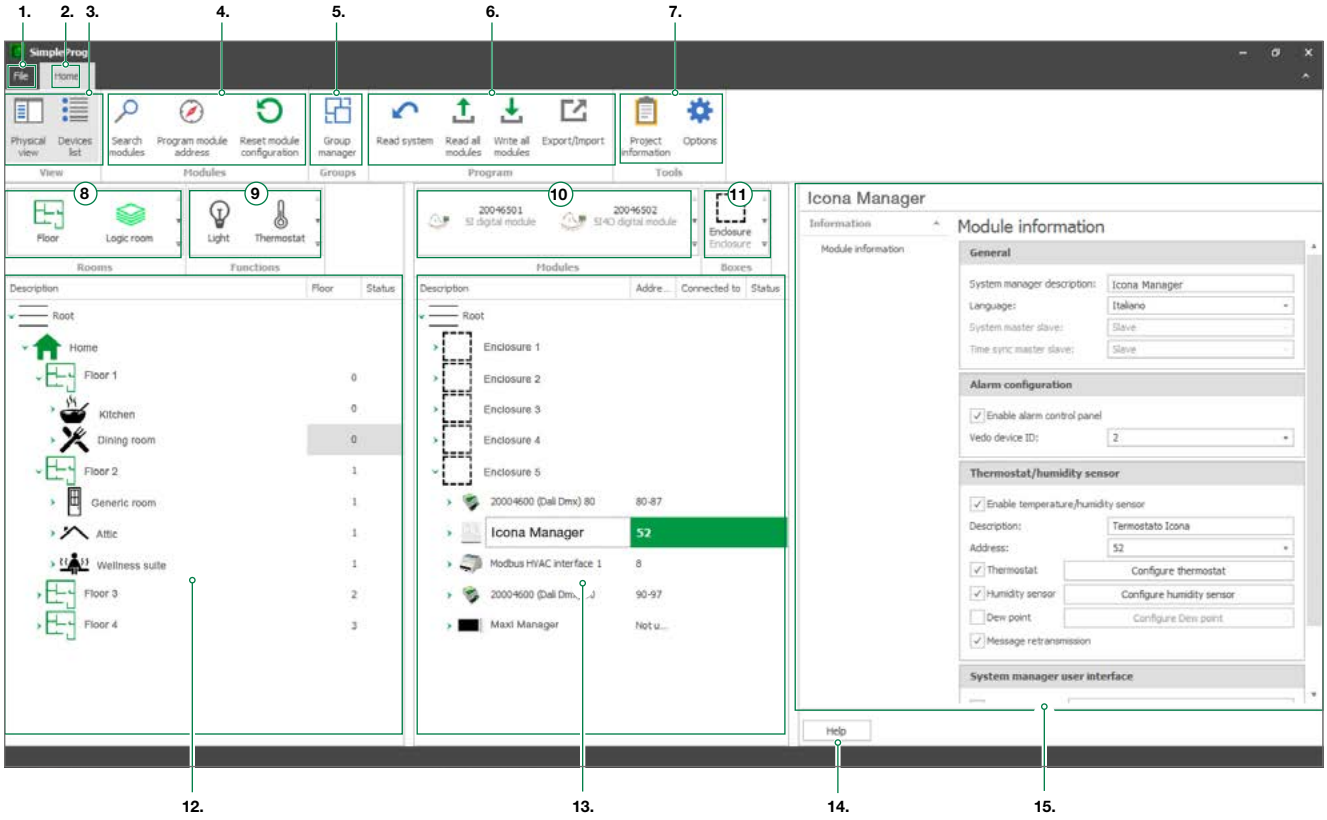
- O.S. Windows 7 - 64 bit or later
- .NET Framework 4.7.2
- 4 GB RAM
- Network card or wireless card

Installation procedure

- Download the software from the website pro.comelitgroup.com
- Launch the installation program
- Follow the instructions given by the program to complete the installation.

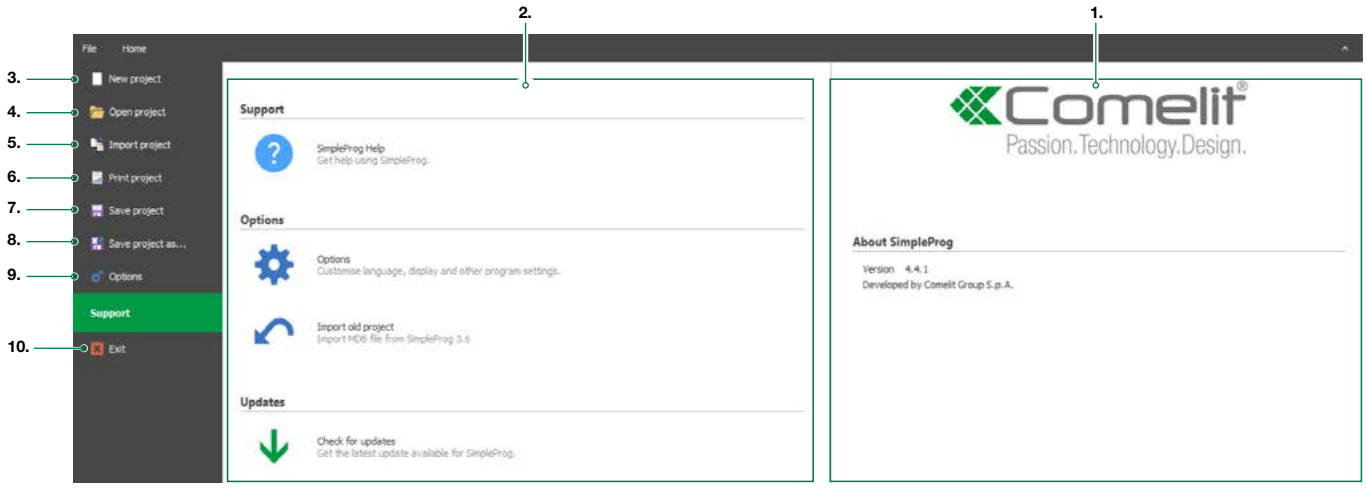
2. Description of the interface and icons

Home Tab screen



1.	FILE:	Options, Support and software info (About) panel
2.	HOME:	main panel
3.	VIEW:	show/hide menus
4.	MODULES:	panel with icons for specific actions
5.	GROUPS:	access to *Group manager* ***panel***
6.	PROGRAM:	panel for importing / exporting system configurations
7.	TOOLS:	access to Options panel
8.	ROOMS:	panel with elements used to create the PHYSICAL VIEW
9.	FUNCTIONS:	panel with elements used to create the PHYSICAL VIEW
10.	MODULES:	panel with elements used to create the DEVICES LIST
11.	BOXES:	panel with elements used to create the DEVICES LIST
12.	PHYSICAL VIEW:	graphics interface for navigating the physical structure of the system
13.	DEVICES LIST:	graphic interface for navigation through the devices connected to the system
14.	HELP:	quick guide to device functions
15.	MODULE INFORMATION:	module configuration window - the contents will vary depending on the home automation module selected

File

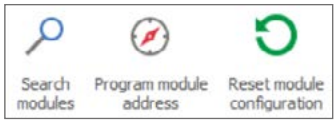


1.	ABOUT:	SimpleProg software version
2.	SHORTCUTS:	Support - software manual in .pdf format
		Options - software configuration
		Import old project - import projects from SimpleProg vers. 3.6 and later
		Updates - check and update version (⚠ internet connection required!)
3.	NEW PROJECT:	icon to create a new project
4.	OPEN PROJECT:	icon open a previously saved project
5.	IMPORT PROJECT:	icon to open a project created using SimpleProg software
6.	PRINT PROJECT:	icon to print the project report
7.	SAVE PROJECT:	icon to save the project
8.	SAVE PROJECT AS:	icon to save the project under a new name
9.	OPTIONS	icon to open the options panel
10.	EXIT:	press this button to close the program

View

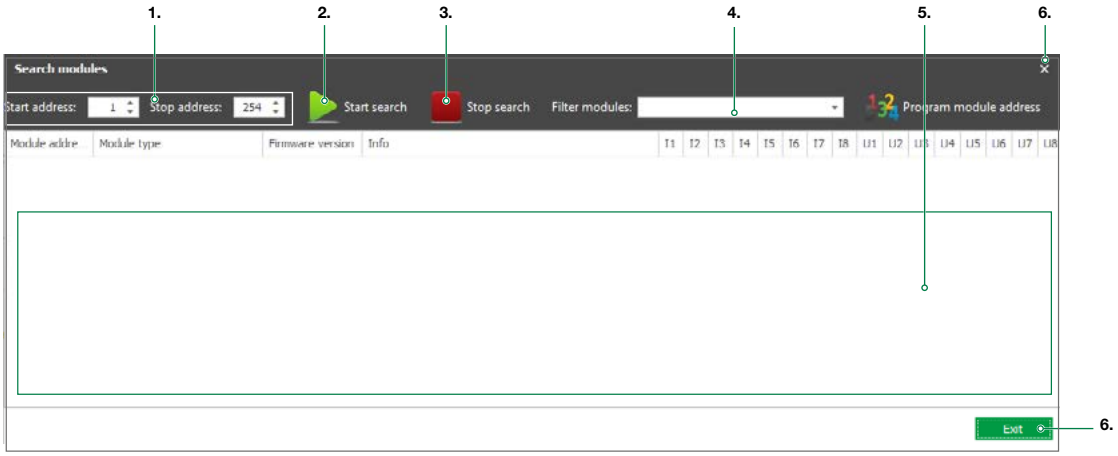
PHYSICAL VIEW:	*Show/hide.* ***(Further information on page 8)***
DEVICES LIST:	*Show/hide.* ***(Further information on page 9)***
LOG: *advanced function*	*The function is used to view codes and commands during module reading/writing. (Default not visible, to enable it see* ***Options_Layout settings****).*
DEBUG: *advanced function*	*Start diagnostics. The function is used to view the telegrams passing through the BUS with the information for the commands and statuses sent by the devices. (Default not visible, to enable it see* ***Options_Layout settings****).*

Modules



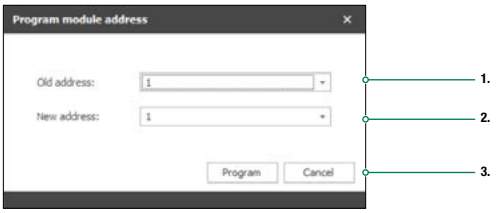
SEARCH MODULES:	*this function allows you to perform a filtered search of the modules that make up the system*
PROGRAM MODULE ADDRESS:	*this function allows you to reprogram the address of a module in the system*
RESET MODULE CONFIGURATION:	*this button allows you to reset the programmed module configuration*

SEARCH MODULES



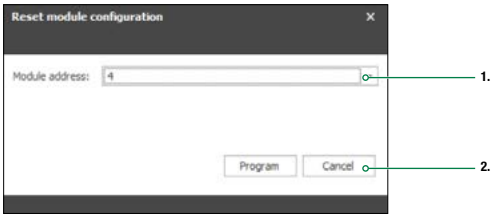
1.	BUS ADDRESS FILTER:	this filter allows you to specify a range of bus addresses
2.	START SEARCH:	this button starts the search applying the set search parameters
3.	STOP SEARCH:	this button stops the current search
4.	FILTER MODULES	this panel allows you to set a filter based on the types of module to be included in the search
5.	MODULES LIST:	window displaying the search results
6.	EXIT:	close window

PROGRAM MODULE ADDRESS



1. Select the old address of the module that you want to reprogram.
2. Assign the new address.
3. Press PROGRAM to confirm or cancel the procedure.

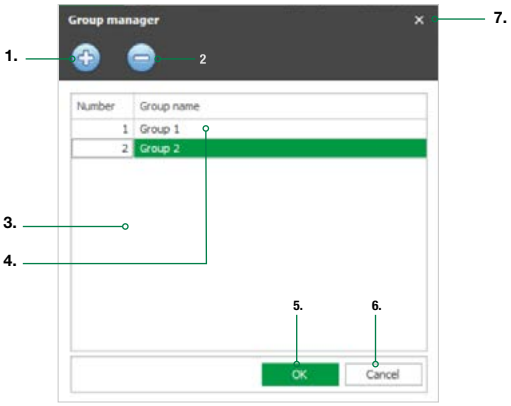
RESET MODULE CONFIGURATION



1. Select the address of the module that you want to reset.
2. Press PROGRAM to confirm or cancel the procedure.

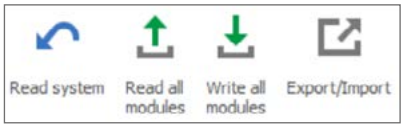
Group manager

▶ Press the GROUP MANAGER button to open the dedicated panel.



1. ADD GROUP: *this button allows you to create a new group*
2. DELETE GROUP: *this button allows you to delete the selected group*
3. GROUPS WINDOW: *window containing a list of the available groups*
4. GROUP NAME: *this field allows you to rename the selected group*
5. OK: *press to close the panel and confirm the changes made*
6. CANCEL: *press to close the panel and cancel any changes made*
7. EXIT: *button to close the search window*

Program



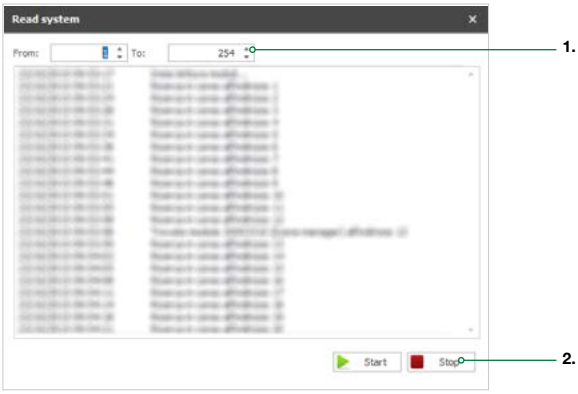
READ SYSTEM: *this function reads all the modules connected to the system, deleting and replacing any configuration present in the devices list*

READ ALL MODULES: *this function reads all the modules present in the devices list, importing all the parameters*

WRITE ALL MODULES: *this function writes the settings of all the modules in the devices list, writing all the parameters*

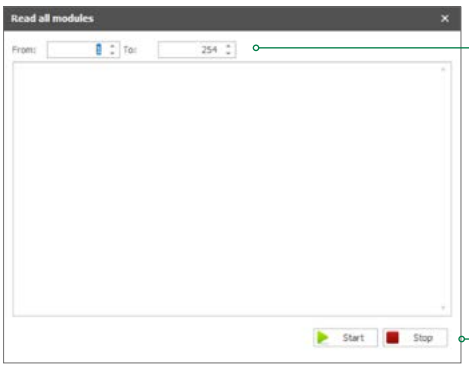
EXPORT/IMPORT: *this function allows you to export the system configuration so it can be loaded on a system manager*

READ SYSTEM



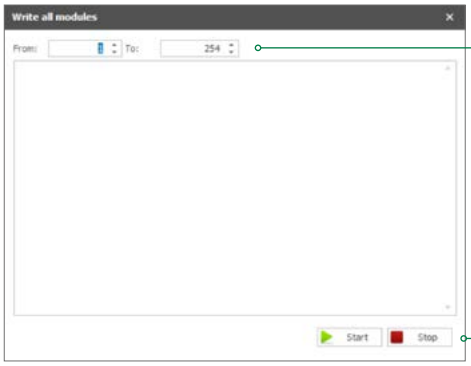
1. Define a range for module reading.
2. Press START to start reading parameters.
   Press STOP to stop the procedure.

READ ALL MODULES



1. Define a range of addresses.
2. Press START to start reading parameters.
   Press STOP to stop the procedure.

WRITE ALL MODULES

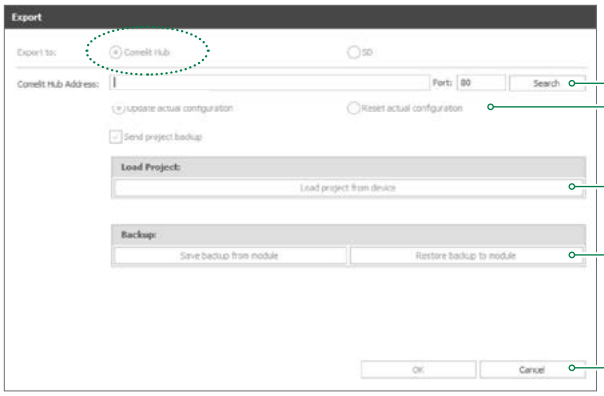


1. Define a range of addresses.
2. Press START to start writing parameters.
   Press STOP to stop the procedure.

EXPORT/IMPORT

Comelit Hub

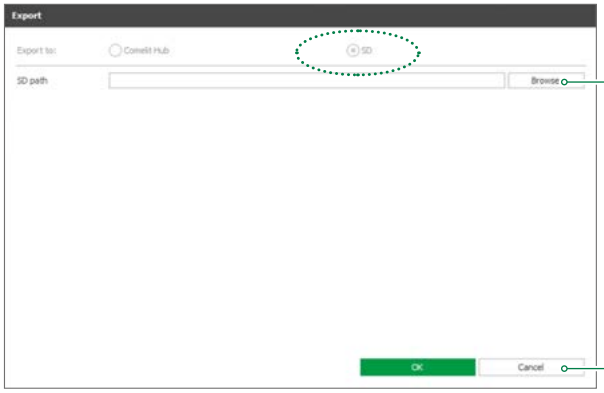
When present in the system, select Comelit Hub to load the SimpleProg project onto the Comelit app and the system managers communicating with the system via that module.



1. Enter the IP address or search for it using the SEARCH button.
2. Select whether to update or reset the current configuration.
3. LOAD PROJECT FROM DEVICE: option of importing the configuration from Comelit Hub.
4. Choose whether to save the Comelit Hub project on the PC or whether to upload a previously saved project to Comelit Hub. The backup project contains information relating to the customisations applied by the user via the app and system managers.
5. Confirm the selection by pressing OK or cancel the operation.

SD card

You will have to load the SimpleProg project onto the SD card for the system managers communicating directly with the system.



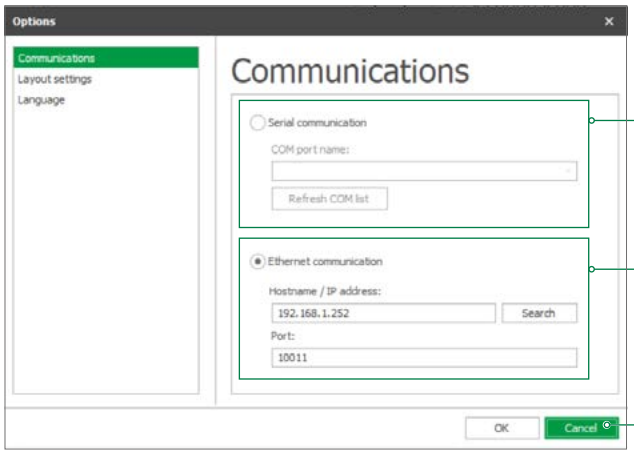
1. Press to search the SD folder.
2. Confirm the selection by pressing OK or cancel the operation.

Options

COMMUNICATIONS

Options relating to the type of connection used for the interface between PC and home automation system.

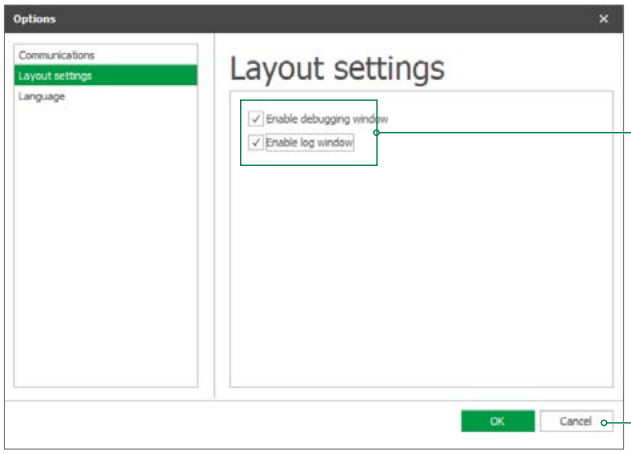
► Select the desired communication port, then set the corresponding parameters to your configuration.



1. Parameters for connection via serial port.
2. Parameters for connection via Ethernet port.
   ► Press Search to search for Comelit Hub 20003150 on the selected network card.
3. Confirm the selection by pressing OK or cancel the operation.

LAYOUT SETTINGS

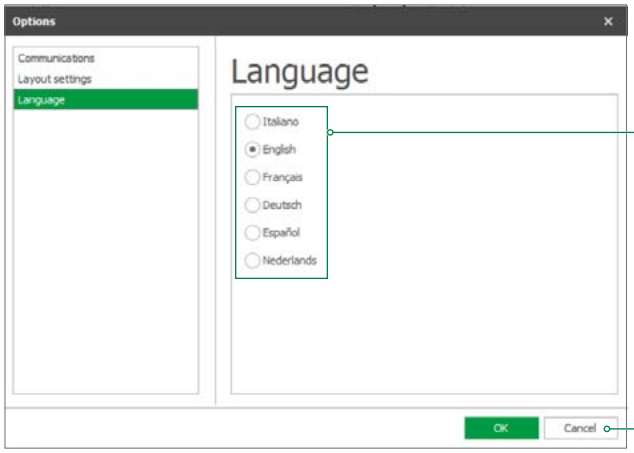
Options relating to the program interface.



1. Enable to show the function on the HOME screen.
2. Confirm the selection by pressing OK or cancel the operation.

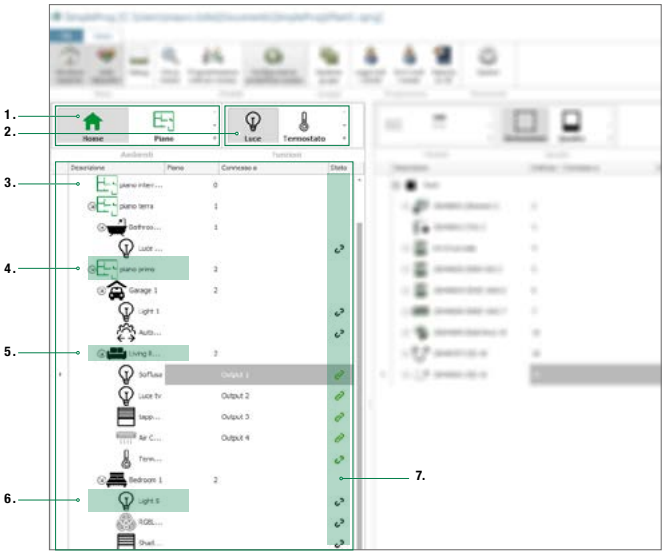
LANGUAGE

On startup the software automatically sets the language it detects in the operating system. To change it, proceed as shown below.



1. Select the desired language.
2. Confirm the selection by pressing OK or cancel the operation.

Physical view



The Physical view panel allows the installer to schematically represent the structure of the home automation system, by entering functions in rooms created to closely reflect the residence in which the system is installed.

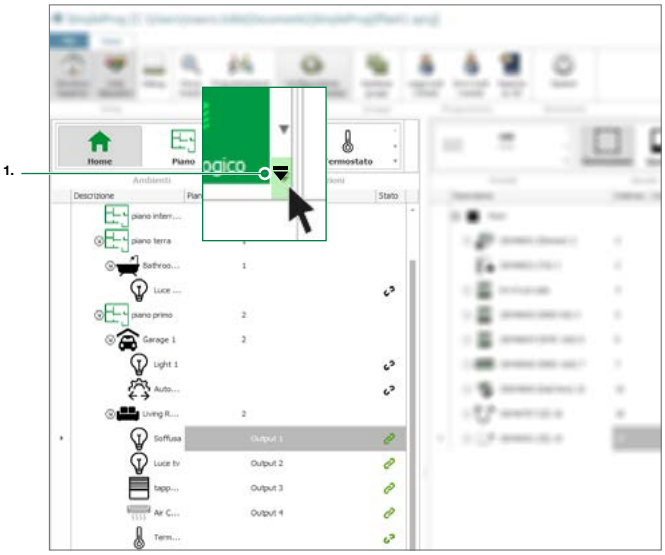
Functions and rooms entered in this panel can then be utilised by the end user within the home automation system manager interface.

⚠ **Before functions can be viewed or managed, they must be connected to specific inputs and outputs of the home automation modules installed in the system and entered in the Devices list.**

Below we describe how to construct a schematic and organise the physical rooms in which the home automation system is installed (domestic rooms, e.g. kitchen, bedroom, etc.) and the home automation functions available to the end user in these rooms (e.g. lights, automatic blinds, air conditioning).

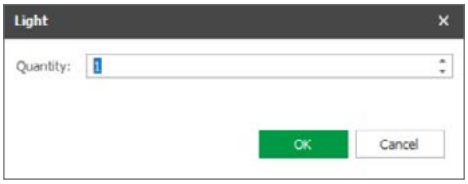
1. Rooms
2. Functions
3. Physical view tree diagram
4. Example floor
5. Example room
6. Example function
7. FUNCTION - MODULE connection status icons

PHYSICAL VIEW SETUP



- Press the icon to expand the window and view all the available elements
- Hover over an object and drag it to the desired point in the physical view

- When adding functions in the physical view, a pop-up window allows you to define the quantity to activate them in a single command.

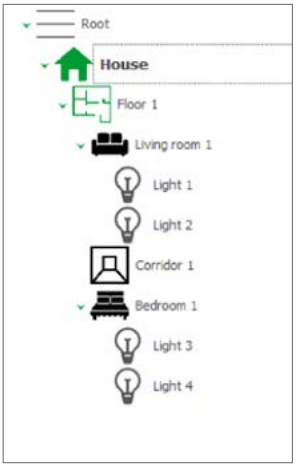


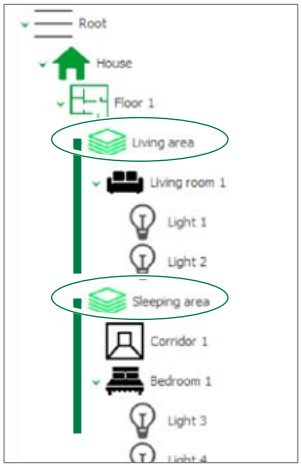
- The order of the Physical view can be changed at any time.

  - **To move an element from one room to another:** press and hold the element and drag it to the desired position until the GREEN arrow appears. Release the element.

  - **To move an element within a room:** press and hold the element and drag it to the desired position until the BLUE arrow appears. Release the element.

LOGIC ROOM





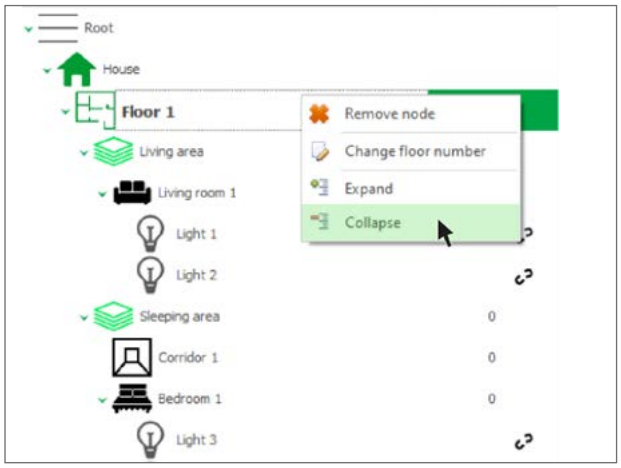
Use "Logic room" to group functions together according to the logic of the building system.

Using the procedure described in Paragraph "Physical view setup" on page 8, a LOGIC ROOM can be added to the physical view, in which you can insert previously created rooms and all the functions contained within them.

In the example we can see that a logic room renamed “Night Zone”, containing the rooms “Bedroom 1” and “Corridor 1” along with the relevant functions, has been added to the physical view.

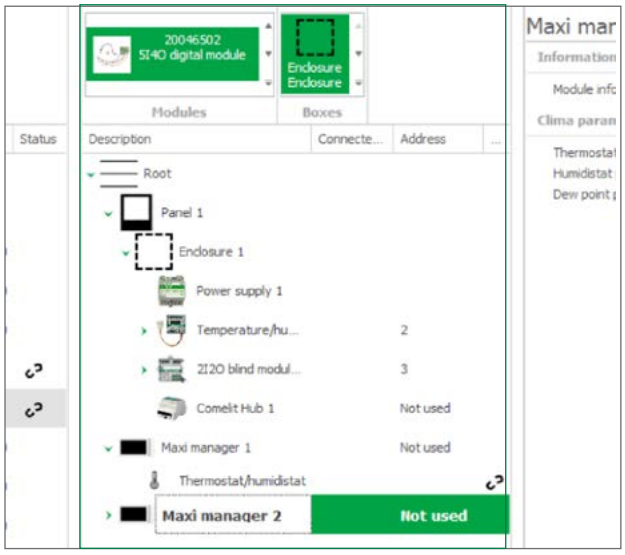
EXPAND/COLLAPSE PHYSICAL VIEW

The rooms in the physical view can be expended and collapsed.



- Hover over the desired room
- Right-click with the mouse
- Select the desired function from the available options

Devices list



The Devices list panel allows the installer to schematically represent the home automation system by adding all the modules within it and arranging them in control panels or junction boxes to closely reflect the building system.

Connect the inputs and outputs of the home automation modules to the functions inserted in the Physical view so that the functions can be displayed and managed in the system managers!

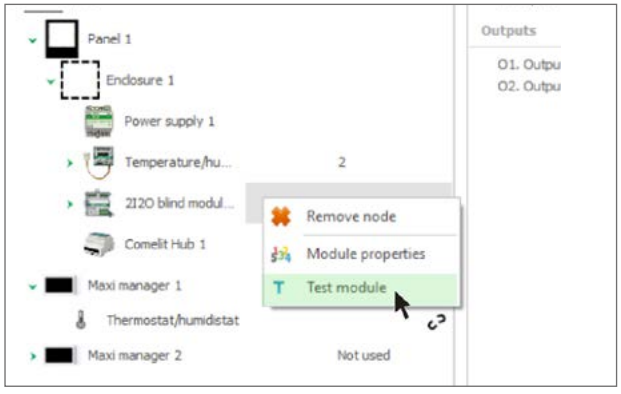
Construction of the Devices list follows the same procedure as that described for the Physical view, but using the elements of the *Modules* and *Boxes* panels.

CONSTRUCTING THE DEVICES LIST

Proceed as in paragraph "Physical view setup" on page 8.

TEST MODULE

Function used by the software to test the module inputs and outputs, to make sure the connections are correct and check that the module is working properly.



- Hover over the desired module
- Right-click with the mouse
- Select the desired function from the available options

3. MODULE PROGRAMMING

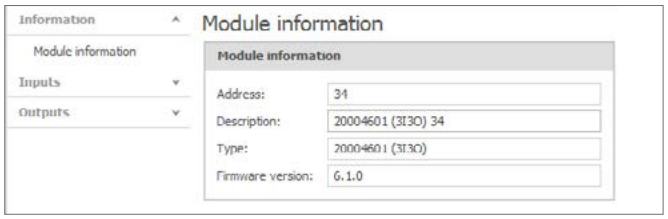
DIGITAL MODULES

Modules with ON/OFF and therefore digital inputs and outputs. These modules are the most utilised on BUS home automation systems, as they allow the use of inputs for the connection of control buttons, free contact sensors, switches, etc. and outputs for the connection of all ON/OFF loads, for example relays, lights, controlled sockets, roller blinds, solenoid valves, etc.

MODULE	DESCRIPTION
ART. 20004601	MODULE WITH 3 INPUTS AND 3 OUTPUTS, 1 x 10A RELAY, FLUSH-MOUNTED OR DIN RAIL
ART. 20004602	BUS MODULE WITH 1 x 10A RELAY OUTPUT, FLUSH-MOUNTED OR DIN RAIL
ART. 20004605	MODULE WITH 2 INPUTS AND 2 x 2A OUTPUTS, FLUSH-MOUNTED OR DIN RAIL
ART. 20046501	BUS MODULE WITH 5 DIGITAL INPUTS, FLUSH-MOUNTED (5I)
ART. 20046502	BUS MODULE WITH 5 INPUTS AND 4 TRANSISTOR OUTPUTS (5I4O)
ART. 20046604	BUS MODULE WITH 5 INPUTS AND 4 x 16A OUTPUTS, ON DIN RAIL (5I4O16A)
ART. 20046605	BUS MODULE WITH 9 INPUTS AND 8 x 6A OUTPUTS, ON DIN RAIL (9I8O6A)
ART. 20046606	BUS MODULE WITH 9 INPUTS AND 8 x 16A OUTPUTS, ON DIN RAIL (9I8O16A)

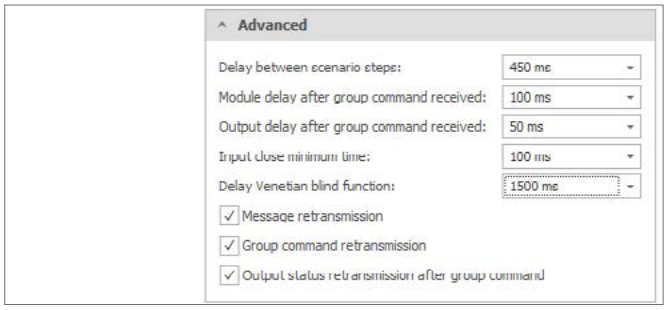
INFORMATION

Module information



ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5 ⚠ To assign an address to module **20004605**, use the DIP-switches.
DESCRIPTION	enter a short description of the module to easily identify it within the project. Example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

Advanced

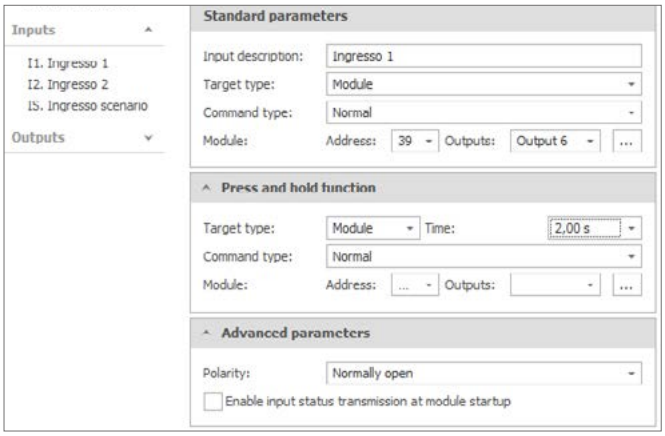


DELAY BETWEEN SCENARIO STEPS	this parameter can be used to set a delay time for the execution of the 8 commands relating to the scenario input. This time only adjusts the time it takes to execute the commands carried out by the scenario input. *For example: command 1 = blind; command 2 = light off; delay = 3000ms (3 sec.) On pressing the button, the blind is lowered immediately and 3 seconds later the light is switched off.*
MODULE DELAY AFTER GROUP COMMAND RECEIVED	sets the delay between receipt of a group command and switching of the module outputs associated with this group. This setting is used to delay the execution of commands across the various modules associated with the same group and therefore prevent the generation of large amounts of data over the BUS. *For example, if you order a module to deactivate all outputs with a group command and a delay of 2 seconds has been set, the outputs will be deactivated 2 seconds after the command is received.*
OUTPUT DELAY AFTER GROUP COMMAND RECEIVED	sets the delay between activation of one output and the next on receipt of a group command controlling several outputs belonging to the same module. *For example, if you send a group command to a module to deactivate all outputs and a delay of 2 seconds has been set, the first output will be deactivated, then the second output will be deactivated 2 seconds later, and so on.*
MINIMUM INPUT CLOSED TIME	sets the time for which the input must remain closed in order to send the command. This delay applies to all inputs on the module. *For example, if you want the button to perform the requested function only when held down for at least 4 seconds, simply set this time to 4s.*
DELAY VENETIAN BLIND FUNCTION	sets the time for differentiating the Venetian blind slat adjustment command from the command used to open or shut them completely. *For example, if you set a delay of 1.5 seconds, you will be able to press the Venetian blind control button for a shorter length of time if you wish to adjust the opening or closing angle of the slats to a smaller degree. If, on the other hand, you press and hold the button for longer than 1.5 seconds, a total opening or closing command will be sent to the Venetian blind.*
MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.
GROUP COMMAND RETRANSMISSION	this tick enables retransmission of a group command. Retransmission sends the group command 3 times. The group command has no status response, as it is not possible to indicate the status of several outputs. We recommend that this tick is always enabled if group commands are used across the system.
OUTPUT STATUS RETRANSMISSION AFTER GROUP COMMAND	this tick box enables transmission, over the BUS, of the status of the outputs activated following a group command received by the module. We recommend enabling this tick when group commands have been programmed for the system and system managers (for example Planux Manager, Serial Bridge, etc...) are installed. This retransmission carried out by the module receiving the command, which may be sent with a maximum delay of 12 seconds, is important in order to update the status of the outputs on the system managers.

INPUTS

Standard parameters

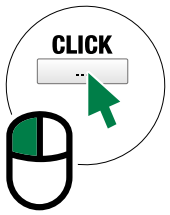
Described below are the INPUT parameters that can be configured.
The number of inputs available varies according to the home automation module selected.

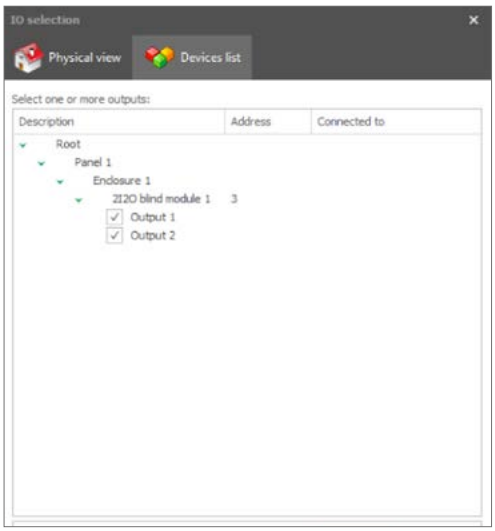


INPUT DESCRIPTION	enter a description indicating the type of command set for the input. The description is modified in the device list table.
TARGET TYPE	**MODULE**: the module function is used to control one or more module outputs from a digital input. When this option is selected, you must enter the number of the module and output(s) you wish to control. *This setting is also used to control an analogue output on a 20046810 module connected to a dimmer module. Also in this case, the address of the 20046810 module and the input number (1 or 2) will need to be entered.* **GROUP**: this function allows you to command multiple outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc... To do this, the outputs must be assigned to the same group on the output settings screen. For example, if you want to control all the lights, one group (for example GROUP 1) must be assigned to all the outputs connected to the lights, and then an input set as GROUP in the TARGET TYPE field, entering GROUP 1. **SYSTEM MANAGER**: the system manager function sends a command directly to the system managers, for example: Icona Manager, Planux Manager, Serial Bridge, Minitouch. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. *For example, if you want to use a button to activate a scenario stored in the memory of a Planux Manager or Minitouch system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the Serial Bridge.*

COMMAND MODE	**NORMAL**: the module sends a command to the target, controlling the output according to the way it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.* **SET**: the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.* **RESET**: the module sends a "force OFF" command and the output is then deactivated independently of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind" or "Venetian blind", the relay is not activated and the blind to which it is connected will not move. *For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.* **BADGE HOLDER**: this command is used to activate an output configured as "Room peripheral". When the input is opened, after the time set for the output, the output reopens. *For example, in a hotel room the badge holder is connected to an input configured as "Badge holder". This means when you enter the room and insert the badge, the output set as "Room peripheral" is opened and the power supply in the room is activated. At the output, after the badge is removed, the timer starts counting down a room exit period. Once this has elapsed, the power supply output is deactivated.* The badge holder command only works on a room peripheral output of the same output corresponding to the input. *For example, if the output n°4 is set to the room peripheral function, then input n°4 of the same module must be programmed as a Badge Holder.* **ALARM**: this command is used to send a deactivation command to a solenoid valve output which takes priority over commands arriving from thermostats, temperature sensors or Minitouch devices. *This command is usually used to deactivate a climate zone if a window is opened, to prevent the heating or air conditioning from running unnecessarily.* **ACTIVATE/DEACTIVATE ANALOGUE OUTPUT**: this command allows you to activate/deactivate an analogue output. *For example, a dimmer 20046851.* **CYCLIC SET/RESET**: the CYCLIC SET/RESET function allows you to send alternate SET and RESET commands from the same input. For example, if you configure a button to control 3 outputs of a digital module and you configure the input as cyclic SET/RESET, the first time the button is pressed it will send the SET command to activate the 3 outputs and the next time it will send the RESET command to deactivate the 3 outputs. This function is particularly useful when you have various outputs controlled individually from different points that you wish to bring into alignment control from a single point. **MONOSTABLE SET/RESET**: this command can be used to send a SET command when the input is closed and a RESET command when the input is opened. For example, you can connect a digital input to a dusk sensor with a free ON/OFF contact so that the lights switch on when the dusk sensor trips and switch off when the sensor is deactivated. With this input, when the dusk sensor contact closes a SET command is sent to activate the outputs, and when the dusk sensor contact opens a RESET command is sent to switch off the lights.
MODULE	**ADDRESS**: this menu can be used to enter the address of the target module **OUTPUTS**: this menu can be used to select the outputs you wish to receive the command *** By pressing [...] you can select the ADDRESS and OUTPUTS of the MODULE through a graphic interface.**

*





Long press function

This function allows you to send a second command from the same button connected to a digital input when the button is held pressed for a period of time that exceeds the time set for this function.

For example, it is possible to configure the button to control the switching on or off one light in a room with short press or to send a command that switches off all the lights in the room with a long press (group command).

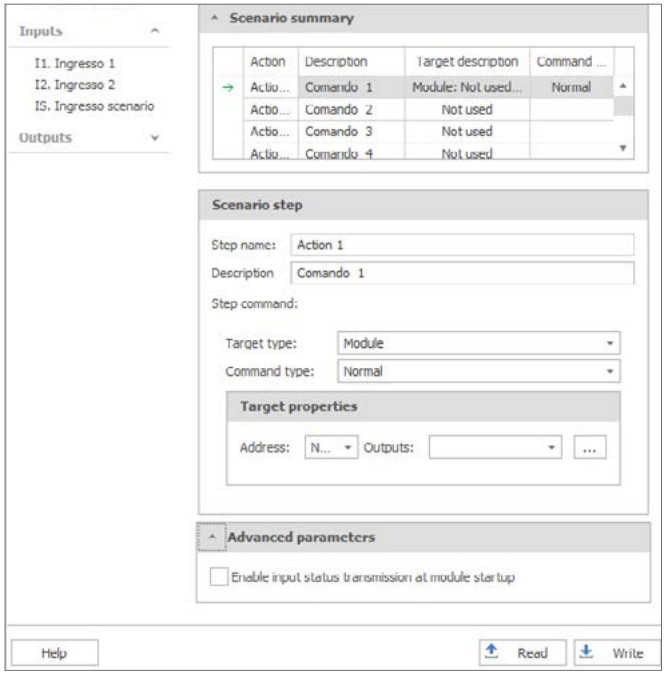
TARGET TYPE	Paragraph "Standard parameters" on page 10
COMMAND MODE	Paragraph "Standard parameters" on page 10
MODULE	Paragraph "Standard parameters" on page 10
TIME	this parameter can be used to set the length of time that a button must be pressed before the command is recognised as a long press. (MAX 12 secs.)

Advanced parameters

POLARITY	NORMALLY OPEN NORMALLY CLOSED
ENABLE INPUT STATUS TRANSMISSION AT MODULE STARTUP	this option allows you to send, on an input configured to send a group command to a priority group, the input status over the BUS at each module startup and thus immediately after a power failure. It is particularly useful if the input is configured to lock some functions that, without this option, would remain locked if the power supply were to fail during the unlock command. *For example, if the input is configured to send a cyclic SET/RESET command to a priority group to lock the irrigation command output.* If at the moment of the output unlocking event there is a voltage drop, the command will not be sent. When the module restarts when the power supply returns, the input might be open but the output will still be locked. With this option enabled, on module startup the input status is sent over the BUS, and therefore, if the input is open, the output will be unlocked.

SCENARIO INPUT

Scenario input, present on all modules with digital inputs, can be used to send 16 different commands over the BUS. When the button connected to the scenario input is pressed, the 16 commands are carried out consecutively; the time between one command and the next can be set (0.5 seconds by default).
For example, it is useful if you want to switch off all the lights in the home, lower all the blinds, deactivate the controlled sockets, etc... In this case, several commands are required and sent over the BUS; the scenario input can be used for this purpose.



Scenario summary

The panel shows all 16 available actions.
Select the desired action, then fill in the fields in the same way as the input fields.

Scenario step

STEP NAME	enter a name that describes the type of action

STEP COMMAND: TARGET TYPE	**MODULE**: the module function is used to control one or more module outputs from a digital input. When this option is selected, you must enter the number of the module and output(s) you wish to control. *This setting is also used to control an analogue output on a 20046810 module connected to a dimmer module. Also in this case, the address of the 20046810 module and the input number (1 or 2) will need to be entered.* **GROUP**: this function allows you to command multiple outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc... To do this, the outputs must be assigned to the same group on the output settings screen. For example, if you want to control all the lights, one group (for example GROUP 1) must be assigned to all the outputs connected to the lights, and then an input set as GROUP in the TARGET TYPE field, entering GROUP 1.

STEP COMMAND: COMMAND TYPE	**NORMAL:** the module sends a command to the target, controlling the output according to the way it was programmed. For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status. **SET**: the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received. **RESET**: the module sends a "force OFF" command and the output is then deactivated independently of the programming, remaining inactive until a new command is sent. The RESET command does not affect outputs set as "Blind" or "Venetian blind". For example, if you want to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive. **ACTIVATE/DEACTIVATE ANALOGUE OUTPUT:** this command activates/deactivates an analogue output at the last value set for it. For example, it can be used to activate the dimmer output of module 20046851. S**ET ANALOGUE VALUE**: this command can be used to control an analogue output on a module. For example, the output of dimmer 20046851, choosing also the value you wish to set. **SET RGB COLOUR:** this command can be used to control an output of the module 20004600 configured as RGB to adjust the colour and brightness.

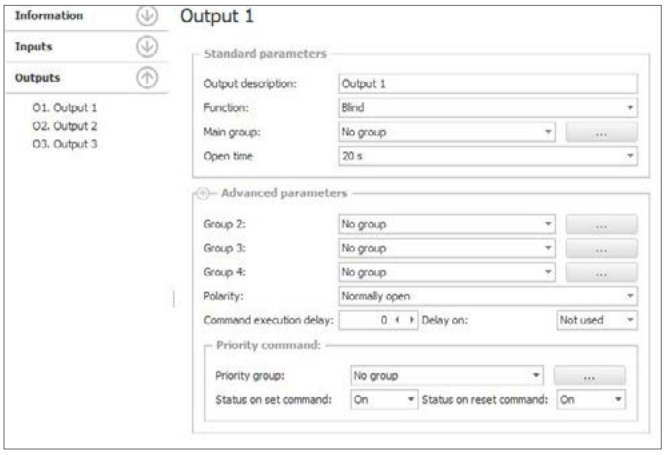
Advanced parameters

ENABLE INPUT STATUS TRANSMISSION AT MODULE STARTUP	this option allows you to send, on an input configured to send a group command to a priority group, the input status over the BUS at each module startup and thus immediately after a power failure. It is particularly useful if the input is configured to lock some functions that, without this option, would remain locked if the power supply were to fail during the unlock command.

OUTPUTS

FUNCTION (continued)	**SOLENOID VALVE**: the solenoid valve function allows connection of a temperature control system solenoid valve so that the output is deactivated when a digital input, configured as ALARM, opens (for example, when the magnetic contact of a window is connected) and is activated when the input closes again. It is also possible to set a time from which the input will be closed again to when the output is activated. This function can be used, for example, in a hotel room. If there is a magnetic contact on the window, connected to a digital input on a module and configured as ALARM, when this input is opened the SOLENOID VALVE output set during configuration will be deactivated. When the magnetic contact closes again, after the time set for the SOLENOID VALVE output has elapsed, the output will be reactivated. This function requires the SOLENOID VALVE output and ALARM input to be on the same digital module. The SOLENOID VALVE outputs are not displayed during Planux Manager and Minitouch system manager configuration, as for temperature control and adjustment the thermostats or temperature sensors are controlled and, in turn, will control the relevant configured outputs. If an input configured as alarm is opened, the solenoid valve output opens. If the input is left open, the corresponding output cannot be used in another way even if reprogrammed. It is therefore necessary to reconfigure an input controlling the output as alarm and then open and close the input. **ROOM PERIPHERAL**: the ROOM PERIPHERAL function is usually used to provide a power supply for services within a room, i.e. on/off devices, controlled sockets, etc... when the user enters and inserts the badge into a badge holder; the power supply is cut off when the badge is removed, with a delay to allow time to exit before the services are deactivated. This function is enabled on closure of a digital input on the same module, configured to control the ROOM PERIPHERAL output with a BADGE HOLDER command. In this configuration the output activates when the BADGE HOLDER input associated with that output closes, and reopens when the input reopens, after the time set for the ROOM PERIPHERAL output. This time period allows the user to leave the room after removing the card from the badge holder, i.e. having opened the input. The room peripheral function can only be activated by a command from the corresponding output of the same module configured as a Badge Holder. *For example, if output n°4 is set to the room peripheral function, then input n°4 of the same module must be programmed as a Badge Holder.*

FUNCTION (continued)	**VENETIAN BLIND**: this option allows control of a Venetian blind with dual output (opening and closing), with the option of adjusting the slats between different positions with step-by-step activation across the two outputs. If output 1 is set as Venetian blind, the second output will also be set as Venetian blind as there must be 2 outputs used for control and since this function creates a lock between the 2 outputs to prevent simultaneous activation of the up and down motion. If the outputs are set as VENETIAN BLIND, a VENETIAN BLIND FUNCTION DELAY must be entered on the general parameters screen, to indicate the delay time for pulse control of the slats or for the general opening and closing of the Venetian blind. This time is set by default to 1.5 seconds and therefore if you press the opening button for less than 1.5 seconds you will start pulse adjustment of the Venetian blind, which will open the slats in steps, only while the button remains pressed. If you press it for longer than 1.5 seconds, total opening will begin for the amount of time set for the output. The time set for the output corresponds to the approximate up and down movement time of the Venetian blind. We recommend entering a time slightly longer than the period taken for the Venetian blind to open or close, as mechanical Venetian blind locking must be guaranteed by the mechanical travel limit of the motor and not by the deactivation of the output on the module. If you leave a time of 0 the outputs will be activated for 0.5 seconds. The Venetian blind can be controlled with a system manager or with 2 buttons, one for upward movement and the other for downward movement. If you want to stop the Venetian blind at any point, press the button for the opposite movement, i.e. if the blind is closing simply press the open button. At this point, while the Venetian blind is not moving, you can press either the open or close button to set it in motion again. Every time the Venetian blind is activated, in any position, the timer resumes its countdown. Commands sent to outputs configured as VENETIAN BLIND must of the NORMAL type. SET and RESET commands are not recognised by the module for outputs configured as VENETIAN BLIND.
MAIN GROUP	this function allows you to select a main group (from those available) to be associated with the output. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**
TIME / OPEN TIME	set the output time so that it corresponds approximately to the activation time. For Blind and Venetian blind outputs, we recommend entering a time slightly longer than the period taken for the motor to open or close the blind, as mechanical locking must be obtained by the mechanical travel limit of the motor and not by the deactivation of the output on the module.



Standard parameters

The configurable OUPUT parameters are described below.
The number of available outputs will vary according to the home automation module selected.

OUTPUT DESCRIPTION	enter a description of the device connected to the output
FUNCTION	**MONOSTABLE:** set this option if the output needs to be activated when the input closes, and deactivated when the input opens. Every time the input opens or closes, a NORMAL command is sent (normal open or normal close). This function can be used for the outputs to which a ringtone is connected, such as a bathroom pull-cord or doorbell. If 2 or more inputs are set to control the same output when any of the inputs are closed, the output is activated; if any of the inputs are opened, the output is deactivated. This means that if both inputs are closed and the output is active, when an input is opened the output is deactivated, even if the second input is closed. The last command sent is taken into consideration without any analysis of the status of the remaining inputs. At each activation of the input, a NORMAL close command is sent to the output, and each deactivation a NORMAL open command is sent. **INVERTER:** set this function to make the output switch every time there is a change to one of the inputs programmed for the control of this output. This option can be used to carry out commands, for example, from switches, diverters or inverters. If two switches are connected to 2 different inputs, every time one of them switches the output will also be switched. For example, starting from a condition where the 2 switches are open and the output inactive, when the first switch connected to input 1 is closed the output will be activated. When the second switch is closed the output will be deactivated and so on for every change in any of the inputs. Every time the input is switched a NORMAL command is sent to the configured output. **STEP BY STEP**: set this function to switch the output with a pulse at the configured input. This function allows control of the output using traditional buttons connected to the digital input. Every time the button is pressed and released the output inverts its status. The command is activated when the button is pressed, yet no command is carried out when it is released. If, for example, 2 buttons are used to control the same output set as bistable, the following applies: when the first button is pressed the output is activated, when the second button is pressed the output is deactivated. If you press and hold the first button the output is activated; if you continue to press and hold the first button and press the second button, the output is deactivated.

	BLIND: this option can be used to control a blind or an automated device with a dual output (open and close). If output 1 is selected as blind, the second output will also be set as blind as there must be 2 outputs used to control a blind and since this function creates a lock between the 2 outputs to prevent simultaneous activation of the up and down outputs. If the outputs are set as BLIND, a time (in seconds) must be entered. This time corresponds to the approximate up and down movement time of the blind. We recommend entering a time slightly longer than the period taken for the blind to open or close, as mechanical locking of the blind must be guaranteed by the mechanical travel limit of the motor and not by the deactivation of the output on the module. If you leave a time of 0 the outputs will be activated for 0.5 seconds. The blind can only be controlled with 2 buttons, one for upward movement and the other for downward movement. Starting with the blind raised, if you press the down button the blind will begin to lower for the programmed amount of time. If you want to stop the blind movement at any point, press the button for the opposite movement, i.e. if the blind is closing simply press the open button. At this point, while the blind is not moving, you can press either the open or close button to set it in motion again. Every time the blind is activated, in any position, the timer resumes its countdown. Commands sent to outputs configured as BLIND must of the NORMAL type. SET and RESET commands are not recognised by the module for outputs configured as BLIND. **TIMED**: this option is used to connect timed procedures such as the stair light, outputs for the irrigation valve, a hallway light or other functions. When a button configured to control the timed output is pressed, the output is activated and then, once the time has elapsed, deactivated. When the output is set as TIMED, the activation time (in seconds) must be entered. If you enter a time of 0 seconds the output will be activated for 0.5 seconds, which is useful for the activation of an electric lock on a gate or other similar functions. To activate a timed output so that it switches off after the programmed time, the digital input configured for control must send a NORMAL command. If a RESET command is sent the output will be deactivated, whatever its condition at that moment. If a SET command is sent the output will be deactivated in any case at the end of the timed period. If a time of 0 seconds is set the output will be activated for 0.5 seconds. Reception of a NORMAL command resets the activation time on the timers. **SHOW STATUS**: this option allows an output to be configured to follow the status of a second output on another module. To set the output which is to be followed, set the relative input to the command of this output. This setting is usually used in order to have a button indicator light identifying the status of a light located in a different room and connected to a second module. This output setting can also be used to follow multiple outputs on another module using the OR function. This could be applied to a zone heating system where there are 5 zone valves all connected to the same module (for example module 10, outputs 1, 2, 3, 4, 5) and an output controlling the boiler connected to module 11, output 4. To activate the boiler output when any of the 5 valve outputs activates and deactivate it when all 5 outputs are inactive, configure the output as SHOW STATUS. For operation, the relative input must be set to control these outputs. Therefore input 4 on module 11 should be set as MODULE+OUTPUT, module number 10, OUTPUTS 1, 2, 3, 4, 5. This function requires all the valve outputs to be on the same module and the boiler output to be on a different module. Digital modules with firmware 5.6 or earlier offer this OR function on max. 7 outputs on the same module. From version 5.8 the function is available on all 8 outputs on a digital module.

Advanced parameters

GROUP 2 / 3 / 4	This function can be used to select other groups from those available to be coupled to the output in addition to the main group. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**
POLARITY	NORMALLY OPEN / NORMALLY CLOSED
COMMAND EXECUTION DELAY	this command can be used to delay the execution of a received command by the output. *For example, if you set a delay of 4 seconds, then the output will wait for 4 seconds following receipt of a command before executing it.*
DELAY ON ACTIVATION / DEACTIVATION	this parameter can be used to set the type of delay to be applied to the output with the function "Delay on activation/deactivation" on receipt of a command to activate the output or a command to deactivate the output. It is not possible to set a delay for both activation and deactivation.

Priority command

PRIORITY GROUP	this function can be used to select a priority group (from those available) to be associated with the output. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**
STATUS ON SET COMMAND	this parameter allows you to determine how the output behaves on receipt of a priority SET command. For example, an output that controls watering that must be activated or deactivated on receipt of a priority SET command and remain locked until receipt of a priority RESET command.
STATUS ON RESET COMMAND	this parameter allows you to determine how the output behaves on receipt of a priority RESET command. For example, an output that controls watering that must be activated or deactivated on receipt of a priority RESET command.

2IN/2OUT BLINDS MODULE - ART. 20004606

INFORMATION

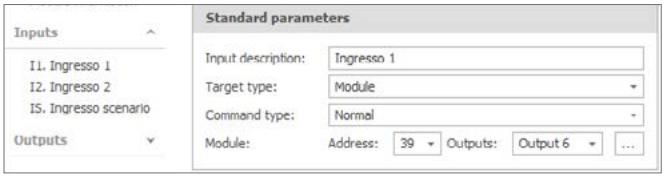
Module information

ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5
DESCRIPTION	enter a short description of the module to easily identify it within the project. Example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

Advanced

MODULE DELAY AFTER GROUP COMMAND RECEIVED	sets the delay between receipt of a group command and switching of the module outputs associated with this group. This setting is used to delay the execution of commands across the various modules associated with the same group and therefore prevent the generation of large amounts of data over the BUS. *For example, if you order a module to deactivate all outputs with a group command and a delay of 2 seconds has been set, the outputs will be deactivated 2 seconds after the command is received.*
OUTPUT DELAY AFTER GROUP COMMAND RECEIVED	sets the delay between activation of one output and the next on receipt of a group command controlling several outputs belonging to the same module. *For example, if you send a group command to a module to deactivate all outputs and a delay of 2 seconds has been set, the first output will be deactivated, then the second output will be deactivated 2 seconds later, and so on.*
MINIMUM INPUT CLOSED TIME	sets the time for which the input must remain closed in order to send the command. This delay applies to all inputs on the module. *For example, if you want the button to perform the requested function only when held down for at least 4 seconds, simply set this time to 4s.*
DELAY VENETIAN BLIND FUNCTION	sets the time for differentiating the Venetian blind slat adjustment command from the command used to open or shut them completely. *For example, if you set a delay of 1.5 seconds, you will be able to press the Venetian blind control button for a shorter length of time if you wish to adjust the opening or closing angle of the slats to a smaller degree. If, on the other hand, you press and hold the button for longer than 1.5 seconds, a total opening or closing command will be sent to the Venetian blind.*
MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.
GROUP COMMAND RETRANSMISSION	this tick enables retransmission of a group command. Retransmission sends the group command 3 times. The group command has no status response, as it is not possible to indicate the status of several outputs. We recommend that this tick is always enabled if group commands are used across the system.
OUTPUT STATUS RETRANSMISSION AFTER GROUP COMMAND	this tick box enables transmission, over the BUS, of the status of the outputs activated following a group command received by the module. We recommend enabling this tick when group commands have been programmed for the system and system managers (for example Planux Manager, Serial Bridge, etc...) are installed. This retransmission carried out by the module receiving the command, which may be sent with a maximum delay of 12 seconds, is important in order to update the status of the outputs on the system managers.

INPUTS



Standard parameters

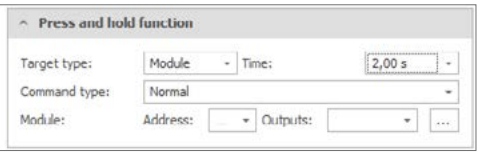
Described below are the INPUT parameters that can be configured.
The number of inputs available varies according to the home automation module selected.

INPUT DESCRIPTION	enter a description indicating the type of command set for the input. The description is modified in the device list table.

TARGET TYPE	**MODULE**: the module function is used to control one or more module outputs from a digital input. When this option is selected, you must enter the number of the module and output(s) you wish to control. *This setting is also used to control an analogue output on a 20046810 module connected to a dimmer module. Also in this case, the address of the 20046810 module and the input number (1 or 2) will need to be entered.* **GROUP**: this function allows you to command multiple outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc... To do this, the outputs must be assigned to the same group on the output settings screen. For example, if you want to control all the lights, one group (for example GROUP 1) must be assigned to all the outputs connected to the lights, and then an input set as GROUP in the TARGET TYPE field, entering GROUP 1. **SYSTEM MANAGER**: the system manager function sends a command directly to the system managers, for example: Icona Manager, Planux Manager, Serial Bridge, Minitouch. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. *For example, if you want to use a button to activate a scenario stored in the memory of a Planux Manager or Minitouch system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the Serial Bridge.*
COMMAND MODE	**NORMAL:** the module sends a command to the target, controlling the output according to the way it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.* **SET**: the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.* **RESET**: the module sends a "force OFF" command and the output is then deactivated independently of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind" or "Venetian blind", the relay is not activated and the blind to which it is connected will not move. *For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.* **ACTIVATE/DEACTIVATE ANALOGUE OUTPUT**: this command allows you to activate/deactivate an analogue output. *For example, a dimmer 20046851.* **CYCLIC SET/RESET**: the CYCLIC SET/RESET function allows you to send alternate SET and RESET commands from the same input. For example, if you configure a button to control 3 outputs of a digital module and you configure the input as cyclic SET/RESET, the first time the button is pressed it will send the SET command to activate the 3 outputs and the next time it will send the RESET command to deactivate the 3 outputs. This function is particularly useful when you have various outputs controlled individually from different points that you wish to bring into alignment control from a single point. **MONOSTABLE SET/RESET**: this command can be used to send SET command when the input is closed and a RESET command when the input is opened. For example, you can connect a digital input to a dusk sensor with a free ON/OFF contact so that the lights switch on when the dusk sensor trips and switch off when the sensor is deactivated. With this input, when the dusk sensor contact closes a SET command is sent to activate the outputs, and when the dusk sensor contact opens a RESET command is sent to switch off the lights.
MODULE	**ADDRESS**: this menu can be used to enter the address of the target module **OUTPUTS**: this menu can be used to select the outputs you wish to receive the command **By pressing [...] you can select the ADDRESS and OUTPUTS of the MODULE through a graphic interface**

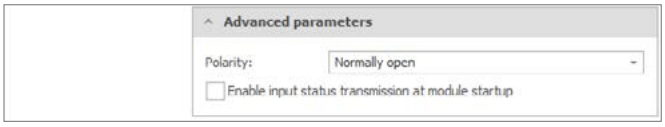
Long press function

This function allows you to send a second command from the same button connected to a digital input when the button is held pressed for a period of time that exceeds the time set for this function.
For example, it is possible to configure the button to control the switching on or off one light in a room with short press or to send a command that switches off all the lights in the room with a long press (group command).



TARGET TYPE	Paragraph "Standard parameters" on page 13
COMMAND MODE	Paragraph "Standard parameters" on page 13
MODULE	Paragraph "Standard parameters" on page 13
TIME	this parameter can be used to set the length of time that a button must be pressed before the command is recognised as a long press. (MAX 12 secs.)

Advanced parameters



POLARITY	NORMALLY OPEN NORMALLY CLOSED
ENABLE INPUT STATUS TRANSMISSION AT MODULE STARTUP	this option allows you to send, on an input configured to send a group command to a priority group, the input status over the BUS at each module startup and thus immediately after a power failure. It is particularly useful if the input is configured to lock some functions that, without this option, would remain locked if the power supply were to fail during the unlock command. *For example, if the input is configured to send a cyclic SET/RESET command to a priority group to lock the watering command output.* If at the moment of the output unlocking event there is a voltage drop, the command will not be sent. When the module restarts when the power supply returns, the input might be open but the output will still be locked. With this option enabled, on module startup the input status is sent over the BUS, and therefore, if the input is open, the output will be unlocked.

OUTPUTS

The configurable OUPUT parameters are described below.
The number of available outputs will vary according to the home automation module selected.

OUTPUT DESCRIPTION	enter a description of the device connected to the output
FUNCTION	**BLIND**: this option can be used to control a blind or an automated device with a dual output (open and close). If output 1 is set as "Blind", output 2 will also automatically be set as "Blind" as the outputs work as paired devices in this mode. Plus, this function creates a lock between the 2 outputs to prevent simultaneous activation of the up and down outputs. If you leave a time of 0 the outputs will be activated for 0.5 seconds. The blind can only be controlled locally with 2 buttons, one for upward movement and the other for downward movement. Starting with the blind raised, if you press the down button the blind will begin to lower for the programmed amount of time. If you want to stop the blind movement at any point, press the button for the opposite movement, i.e. if the blind is closing simply press the open button. At this point, while the blind is not moving, you can press either the open or close button to set it in motion again. Maxi Manager and Comelit app can also be used to set the blind to an intermediate position between 0% fully open and 100% fully closed, and to display its percentage status. The percentage position is calculated in relation to the set running time. Commands sent to outputs configured as "Blind" must be of the NORMAL type. SET and RESET commands are not recognised by the module for outputs configured as "Blind". **VENETIAN BLIND**: this option allows control of a Venetian blind with dual output (opening, closing and percentage position), with the option of adjusting the slats between different positions with step-by-step activation across the two outputs. If output 1 is set as "Venetian blind", output 2 will also automatically be set as "Venetian blind" as the outputs work as paired devices in this mode. Plus, this function creates a lock between the 2 outputs to prevent simultaneous activation of the up and down outputs. If the outputs are set as "Venetian blind", a "Venetian blind" FUNCTION DELAY must be entered on the general parameters screen, to indicate the delay time for pulse control of the slats or for the general opening and closing of the Venetian blind. This time is set by default to 1.5 seconds and therefore if you press the opening button for less than 1.5 seconds you will start pulse adjustment of the Venetian blind, which will open the slats in steps, only while the button remains pressed. If you press it for longer than 1.5 seconds, total opening will begin for the amount of time set for the output. If you leave a time of 0 the outputs will be activated for 0.5 seconds. The Venetian blind can be controlled with a system manager or with 2 buttons, one for upward movement and the other for downward movement. If you want to stop the Venetian blind at any point, press the button for the opposite movement, i.e. if the blind is closing simply press the open button. At this point, while the Venetian blind is not moving, you can press either the open or close button to set it in motion again. Maxi Manager and Comelit app can also be used to set the blind to an intermediate position between 0% fully open and 100% fully closed, and to display its percentage status. The percentage position is calculated in relation to the set running time. Commands sent to outputs configured as "Venetian blind" must be of the NORMAL type. SET and RESET commands are not recognised by the module for outputs configured as "Venetian blind".
MAIN GROUP	this function allows you to select a main group (from those available) to be associated with the output. Pressing [...] gives access to the group manager panel from which you can create or delete groups. ⚠ **The same group cannot be used for both output 1 (opening) and output 2 (closing)**
OPEN TIME CLOSE TIME	Set the opening and closing time (in seconds) for the blind or Venetian blind. *We recommend entering a time slightly longer than the period taken for the motor to open or close the blind, as mechanical locking must be obtained by the mechanical travel limit of the motor and not by the deactivation of the output on the module.*

Favourite Position

The function can be used to set the roller blind or Venetian blind to a fixed percentage intermediate position. This position can be controlled via a digital input and/or system manager.

ENABLE FAVOURITE POSITION	Flag to enable the function.
FAVOURITE POSITION	Set a percentage at which the blind or Venetian blind will be positioned when the command is received. If the function is enabled this value can also be changed via Maxi Manager and Comelit app.

Advanced parameters

GROUP 2 / 3 / 4	This function can be used to select other groups from those available to be coupled to the output in addition to the main group. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
POLARITY	NORMALLY OPEN / NORMALLY CLOSED
COMMAND EXECUTION DELAY	this command can be used to delay the execution of a received command by the output. For example, if you set a delay of 4 seconds, then the output will wait for 4 seconds following receipt of a command before executing it.
DELAY ON ACTIVATION / DEACTIVATION	this parameter can be used to set the type of delay to be applied to the output with the function "Delay on activation/deactivation" on receipt of a command to activate the output or a command to deactivate the output. The delay cannot be set for both activation and deactivation.

Priority command

PRIORITY GROUP	this function can be used to select a priority group (from those available) to be associated with the output. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
STATUS ON SET COMMAND	this parameter can be used to determine how the output will behave on receipt of a priority SET command. **On receipt of the ON command** the corresponding output is *activated* for the set running time and it will not be possible to manually act on the outputs until forcing is deactivated. Example: If the blind was moving downwards, when output 1 receives the SET ON command, downward movement will be stopped and upward movement will begin. **On receipt of the OFF command** the corresponding output is *deactivated* and it will not be possible to manually act on the outputs until forcing is deactivated. Example: If the blind was moving downwards, when output 1 receives the SET OFF command, downward movement will be stopped and no movement will be made.
STATUS ON RESET COMMAND	this parameter can be used to determine how the output will behave on receipt of a priority RESET command. **On receipt of the ON command**, forcing will be deactivated and the corresponding output is *activated* for the set running time; from this moment you will be able to manually act on the outputs. Example: If the blind was in SET ON for output 1, on receipt of the RESET ON command for output 2 forcing will be deactivated and downward movement will begin. Note: If it is active, output 1 will be deactivated before output 2 is activated. **On receipt of the OFF command**, forcing will be deactivated and from this moment you will be able to manually act on the outputs. Example: If the blind was in SET ON for output 1, on receipt of the RESET OFF command for output 2 forcing will be deactivated and no movement will be made. Note: If output 1 was active it will be deactivated.

2IN/2OUT GENERIC BUS MODULE - ART. 20004607

INFORMATION

Module information

ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. ⚠ To assign an address to the module, use the DIP-switches.
DESCRIPTION	enter a short description of the module to easily identify it within the project. Example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

Advanced

MODULE DELAY AFTER GROUP COMMAND RECEIVED	sets the delay between receipt of a group command and switching of the module outputs associated with this group. This setting is used to delay the execution of commands across the various modules associated with the same group and therefore prevent the generation of large amounts of data over the BUS. *For example, if you order a module to deactivate all outputs with a group command and a delay of 2 seconds has been set, the outputs will be deactivated 2 seconds after the command is received.*
OUTPUT DELAY AFTER GROUP COMMAND RECEIVED	sets the delay between activation of one output and the next on receipt of a group command controlling several outputs belonging to the same module. *For example, if you send a group command to a module to deactivate all outputs and a delay of 2 seconds has been set, the first output will be deactivated, then the second output will be deactivated 2 seconds later, and so on.*
MINIMUM INPUT CLOSED TIME	sets the time for which the input must remain closed in order to send the command. This delay applies to all inputs on the module. *For example, if you want the button to perform the requested function only when held down for at least 4 seconds, simply set this time to 4s.*
MESSAGE RETRANSMISSION	This function can be used to resend the command in the event that the module under control does not respond. Under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. We recommend that this function is always enabled to ensure greater security for the commands sent.
GROUP COMMAND RETRANSMISSION	this tick enables retransmission of a group command. Retransmission sends the group command 3 times. The group command has no status response, as it is not possible to indicate the status of several outputs. We recommend that this tick is always enabled if group commands are used across the system.
OUTPUT STATUS RETRANSMISSION AFTER GROUP COMMAND	this tick box enables transmission, over the BUS, of the status of the outputs activated following a group command received by the module. We recommend enabling this tick when group commands have been programmed for the system and system managers (for example Planux Manager, Serial Bridge, etc...) are installed. This retransmission carried out by the module receiving the command, which may be sent with a maximum delay of 12 seconds, is important in order to update the status of the outputs on the system managers.

INPUTS

Standard parameters

Described below are the INPUT parameters that can be configured.
The number of inputs available varies according to the home automation module selected.

INPUT DESCRIPTION	enter a description indicating the type of command set for the input. The description is modified in the device list table.
TARGET TYPE	**MODULE**: the module function is used to control one or more module outputs from a digital input. When this option is selected, you must enter the number of the module and output(s) you wish to control. *This setting is also used to control an analogue output on a 20046810 module connected to a dimmer module. Also in this case, the address of the 20046810 module and the input number (1 or 2) will need to be entered.* **GROUP**: this function allows you to command multiple outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc... To do this, the outputs must be assigned to the same group on the output settings screen. For example, if you want to control all the lights, one group (for example GROUP 1) must be assigned to all the outputs connected to the lights, and then an input set as GROUP in the TARGET TYPE field, entering GROUP 1. **SYSTEM MANAGER**: the system manager function sends a command directly to the system managers, for example: Icona Manager, Planux Manager, Serial Bridge, Minitouch. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. *For example, if you want to use a button to activate a scenario stored in the memory of a Planux Manager or Minitouch system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the Serial Bridge.*

COMMAND MODE	**NORMAL:** the module sends a command to the target, controlling the output according to the way it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.* **SET**: the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.* **RESET**: the module sends a "force OFF" command and the output is then deactivated independently of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind" or "Venetian blind", the relay is not activated and the blind to which it is connected will not move. *For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.* **BADGE HOLDER**: this command is used to activate an output configured as "Room peripheral". When the input is opened, after the time set for the output, the output reopens. *For example, in a hotel room the badge holder is connected to an input configured as "Badge holder". This means when you enter the room and insert the badge, the output set as "Room peripheral" is opened and the power supply in the room is activated. At the output, after the badge is removed, the timer starts counting down a room exit period. Once this has elapsed, the power supply output is deactivated.* The badge holder command only works on a room peripheral output of the same output corresponding to the input. *For example if the output n°4 is set to the room peripheral function, then input n°4 of the same module must be programmed as a Badge Holder.* **ALARM**: this command is used to send a deactivation command to a solenoid valve output which takes priority over commands arriving from thermostats, temperature sensors or Minitouch devices. *This command is usually used to deactivate a climate zone if a window is opened, to prevent the heating or air conditioning from running unnecessarily.* **ACTIVATE/DEACTIVATE ANALOGUE OUTPUT**: this command allows you to activate/deactivate an analogue output. *For example, a dimmer 20046851.* **CYCLIC SET/RESET**: the CYCLIC SET/RESET function allows you to send alternate SET and RESET commands from the same input. For example, if you configure a button to control 3 outputs of a digital module and you configure the input as cyclic SET/RESET, the first time the button is pressed it will send the SET command to activate the 3 outputs and the next time it will send the RESET command to deactivate the 3 outputs. This function is particularly useful when you have various outputs controlled individually from different points that you wish to bring into alignment control from a single point. **MONOSTABLE SET/RESET**: this command can be used to send a SET command when the input is closed and a RESET command when the input is opened. For example, you can connect a digital input to a dusk sensor with a free ON/OFF contact so that the lights switch on when the dusk sensor trips and switch off when the sensor is deactivated. With this input, when the dusk sensor contact closes a SET command is sent to activate the outputs, and when the dusk sensor contact opens a RESET command is sent to switch off the lights.
MODULE	**ADDRESS**: this menu can be used to enter the address of the target module **OUTPUTS**: this menu can be used to select the outputs you wish to receive the command **By pressing [...] you can select the ADDRESS and OUTPUTS of the MODULE through a graphic interface**

Long press function

This function allows you to send a second command from the same button connected to a digital input when the button is held pressed for a period of time that exceeds the time set for this function.
For example, it is possible to configure the button to control the switching on or off one light in a room with short press or to send a command that switches off all the lights in the room with a long press (group command).

TARGET TYPE	Paragraph "Standard parameters" on page 15
COMMAND MODE	Paragraph "Standard parameters" on page 15
MODULE	Paragraph "Standard parameters" on page 15
TIME	this parameter can be used to set the length of time that a button must be pressed before the command is recognised as a long press. (MAX 12 secs.)

Advanced parameters

POLARITY	NORMALLY OPEN NORMALLY CLOSED
ENABLE INPUT STATUS TRANSMISSION AT MODULE STARTUP	this option allows you to send, on an input configured to send a group command to a priority group, the input status over the BUS at each module startup and thus immediately after a power failure. It is particularly useful if the input is configured to lock some functions that, without this option, would remain locked if the power supply were to fail during the unlock command. *For example, if the input is configured to send a cyclic SET/RESET command to a priority group to lock the watering command output.* If at the moment of the output unlocking event there is a voltage drop, the command will not be sent. When the module restarts when the power supply returns, the input might be open but the output will still be locked. With this option enabled, on module startup the input status is sent over the BUS, and therefore, if the input is open, the output will be unlocked.

OUTPUTS

Standard parameters

The configurable OUPUT parameters are described below.
The number of available outputs will vary according to the home automation module selected.

OUTPUT DESCRIPTION	enter a description of the device connected to the output
FUNCTION	**MONOSTABLE:** set this option if the output needs to be activated when the input closes, and deactivated when the input opens. Every time the input opens or closes, a NORMAL command is sent (normal open or normal close). This function can be used for the outputs to which a ringtone is connected, such as a bathroom pull-cord or doorbell. If 2 or more inputs are set to control the same output when any of the inputs are closed, the output is activated; if any of the inputs are opened, the output is deactivated. This means that if both inputs are closed and the output is active, when an input is opened the output is deactivated, even if the second input is closed. The last command sent is taken into consideration without any analysis of the status of the remaining inputs. At each activation of the input, a NORMAL close command is sent to the output, and each deactivation a NORMAL open command is sent. **INVERTER:** set this function to make the output switch every time there is a change to one of the inputs programmed for the control of this output. This option can be used to carry out commands, for example, from switches, diverters or inverters. If two switches are connected to 2 different inputs, every time one of them switches the output will also be switched. For example, starting from a condition where the 2 switches are open and the output inactive, when the first switch connected to input 1 is closed the output will be activated. When the second switch is closed the output will be deactivated and so on for every change in any of the inputs. Every time the input is switched a NORMAL command is sent to the configured output. **STEP BY STEP**: set this function to switch the output with a pulse at the configured input. This function allows control of the output using traditional buttons connected to the digital input. Every time the button is pressed and released the output inverts its status. The command is activated when the button is pressed, yet no command is carried out when it is released. If, for example, 2 buttons are used to control the same output set as bistable, the following applies: when the first button is pressed the output is activated, when the second button is pressed the output is deactivated. If you press and hold the first button the output is activated; if you continue to press and hold the first button and press the second button, the output is deactivated. **TIMED**: this option is used to connect timed procedures such as the stair light, outputs for the irrigation valve, a hallway light or other functions. When a button configured to control the timed output is pressed, the output is activated and then, once the time has elapsed, deactivated. When the output is set as TIMED, the activation time (in seconds) must be entered. If you enter a time of 0 seconds the output will be activated for 0.5 seconds, which is useful for the activation of an electric lock on a gate or other similar functions. To activate a timed output so that it switches off after the programmed time, the digital input configured for control must send a NORMAL command. If a RESET command is sent the output will be deactivated, whatever its condition at that moment. If a SET command is sent the output will be deactivated in any case at the end of the timed period. If a time of 0 seconds is set the output will be activated for 0.5 seconds. Reception of a NORMAL command resets the activation time on the timers. **SHOW STATUS**: this option allows an output to be configured to follow the status of a second output on another module. To set the output which is to be followed, set the relative input to the command of this output. This setting is usually used in order to have a button indicator light identifying the status of a light located in a different room and connected to a second module. This output setting can also be used to follow multiple outputs on another module using the OR function. This could be applied to a zone heating system where there are 5 zone valves all connected to the same module (for example module 10, outputs 1, 2, 3, 4, 5) and an output controlling the boiler connected to module 11, output 4. To activate the boiler output when any of the 5 valve outputs activates and deactivate it when all 5 outputs are inactive, configure the output as SHOW STATUS. For operation, the relative input must be set to control these outputs. Therefore input 4 on module 11 should be set as MODULE+OUTPUT, module number 10, OUTPUTS 1, 2, 3, 4, 5. This function requires all the valve outputs to be on the same module and the boiler output to be on a different module. Digital modules with firmware 5.6 or earlier offer this OR function on max. 7 outputs on the same module. From version 5.8 the function is available on all 8 outputs on a digital module. **SOLENOID VALVE:** the solenoid valve function allows connection of a temperature control system solenoid valve so that the output is deactivated when a digital input, configured as ALARM, opens (for example, when the magnetic contact of a window is connected) and is activated when the input closes again. It is also possible to set a time from which the input will be closed again to when the output is activated. This function can be used, for example, in a hotel room. If there is a magnetic contact on the window, connected to a digital input on a module and configured as ALARM, when this input is opened the SOLENOID VALVE output set during configuration will be deactivated. When the magnetic contact closes again, after the time set for the SOLENOID VALVE output has elapsed, the output will be reactivated. This function requires the SOLENOID VALVE output and ALARM input to be on the same digital module. The SOLENOID VALVE outputs are not displayed during Planux Manager and Minitouch system manager configuration, as for temperature control and adjustment the thermostats or temperature sensors are controlled and, in turn, will control the relevant configured outputs. If an input configured as alarm is opened, the solenoid valve output opens. If the input is left open, the corresponding output cannot be used in another way even if reprogrammed. It is therefore necessary to reconfigure an input controlling the output as alarm and then open and close the input.

	ROOM PERIPHERAL: the ROOM PERIPHERAL function is usually used to provide a power supply for services within a room, i.e. on/off devices, controlled sockets, etc... when the user enters and inserts the badge into a badge holder; the power supply is cut off when the badge is removed, with a delay to allow time to exit before the services are deactivated. This function is enabled on closure of a digital input on the same module, configured to control the ROOM PERIPHERAL output with a BADGE HOLDER command. In this configuration the output activates when the BADGE HOLDER input associated with that output closes, and reopens when the input reopens, after the time set for the ROOM PERIPHERAL output. This time period allows the user to leave the room after removing the card from the badge holder, i.e. having opened the input. The room peripheral function can only be activated by a command from the corresponding output of the same module configured as a Badge Holder. *For example, if output n°4 is set to the room peripheral function, then input n°4 of the same module must be programmed as a Badge Holder.*
MAIN GROUP	this function allows you to select a main group (from those available) to be associated with the output. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

Advanced parameters

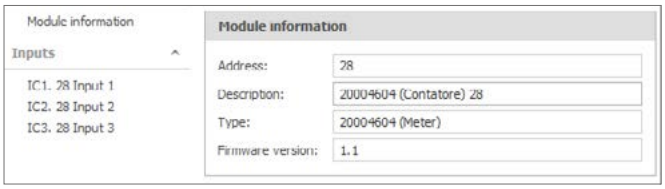
GROUP 2 / 3 / 4	This function can be used to select other groups from those available to be coupled to the output in addition to the main group. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
POLARITY	NORMALLY OPEN / NORMALLY CLOSED
COMMAND EXECUTION DELAY	this command can be used to delay the execution of a received command by the output. *For example, if you set a delay of 4 seconds, then the output will wait for 4 seconds following receipt of a command before executing it.*
DELAY ON ACTIVATION / DEACTIVATION	this parameter can be used to set the type of delay to be applied to the output with the function "Delay on activation/deactivation" on receipt of a command to activate the output or a command to deactivate the output. It is not possible to set a delay for both activation and deactivation.

Priority command

PRIORITY GROUP	this function can be used to select a priority group (from those available) to be associated with the output. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
STATUS ON SET COMMAND	this parameter allows you to determine how the output behaves on receipt of a priority SET command. For example, an output that controls watering that must be activated or deactivated on receipt of a priority SET command and remain locked until receipt of a priority RESET command.
STATUS ON RESET COMMAND	this parameter allows you to determine how the output behaves on receipt of a priority RESET command. For example, an output that controls watering that must be activated or deactivated on receipt of a priority RESET command.

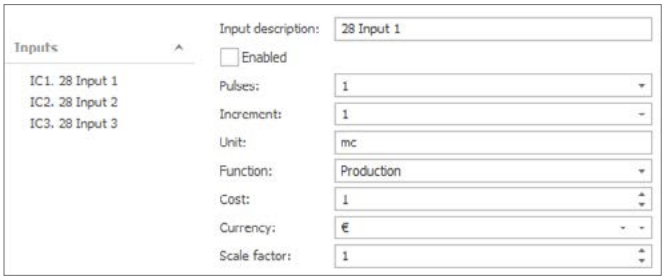
3IN METER - ART. 20004604

MODULE INFORMATION



ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5
DESCRIPTION	enter a short description of the module to easily identify it within the project. Example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

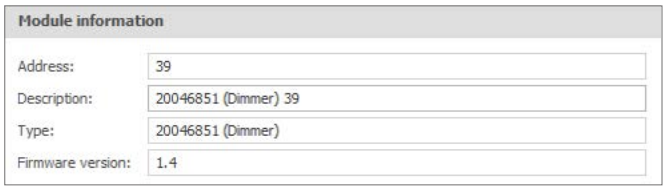
INPUTS



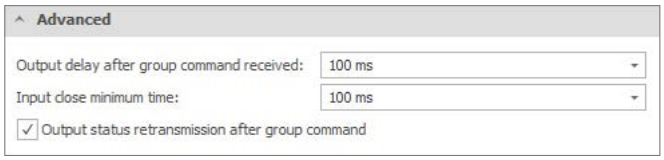
INPUT DESCRIPTION	enter a description indicating the type of command set for the input. the description is modified in the device list table.
ENABLED	placing or removing a tick in the enabled box enables/disables the input.
PULSES	enter the number of pulses required by the input to obtain an increment
INCREMENT	enter the value of the increment. For example, if you connect the input to a pulse water meter which generates a pulse every 2 litres, you will need to enter 1 in the pulses per increment field and 2 in the amount to add field. This means that for every 1 pulse, the meter count will increase by 2.
UNIT	enter the unit of measurement used
FUNCTION	PRODUCTION/CONSUMPTION: you can choose a category for the data collected
COST	enter the unit value to be used to calculate the cost for the quantity of units consumed
CURRENCY	you can select the currency to use when displaying consumption costs.
SCALE FACTOR	this parameter is used to set up conversion of the units of measurement displayed. For example, you heating system meters use calories but you want to display the values in Joules.

1OUT 300W DIMMER MODULE - ART. 20046851

MODULE INFORMATION



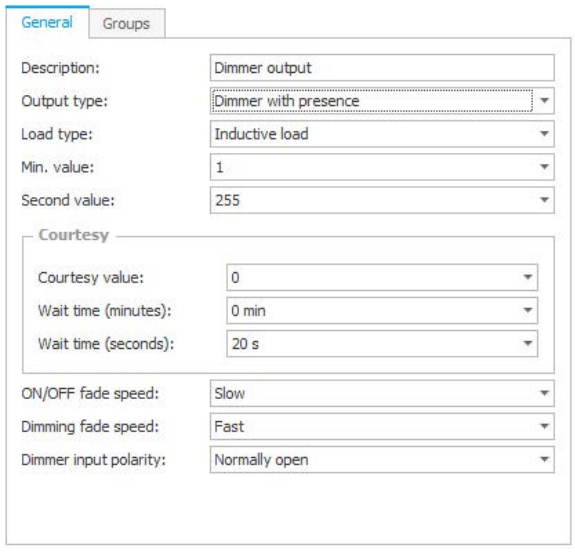
ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5
DESCRIPTION	Enter a short description of the module to easily identify it within the project. Example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**



ADVANCED	MODULE DELAY AFTER GROUP COMMAND RECEIVED	indicates the delay between receipt of a group command and switching of the module outputs associated with this group. This setting is used to delay the execution of commands across the various modules associated with the same group and therefore prevent the generation of large amounts of data over the BUS. *For example, if you order a module to deactivate all outputs with a group command and a delay of 2 seconds has been set, the outputs will be deactivated 2 seconds after the command is received.*
	INPUT CLOSE MINIMUM TIME	indicates the time for which the input must remain closed in order to send the command. This delay applies to all inputs on the module. *For example, if you want the button to perform the requested function only when held down for at least 4 seconds, simply set this time to 4s.*
	OUTPUT STATUS RETRANSMISSION AFTER GROUP COMMAND	this tick box enables transmission, over the BUS, of the status of the outputs activated following a group command received by the module. We recommend enabling this tick when group commands have been programmed for the system and system managers (for example Planux Manager, Serial Bridge, etc...) are installed. This retransmission carried out by the module receiving the command, which may be sent with a maximum delay of 12 seconds, is important in order to update the status of the outputs on the system managers.

DIMMER PARAMETERS

General

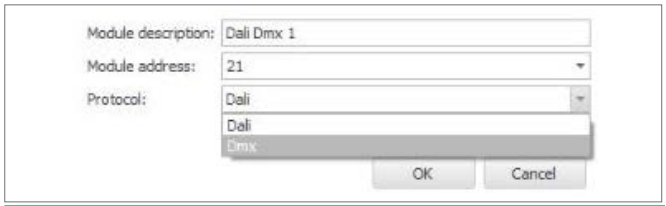


DESCRIPTION	enter a short description of the module to easily identify it within the project. Example: *Mod5 503 ground floor bathroom input*
OUTPUT TYPE	**DIMMER**: this function can be used to: • Select a pre-set brightness level: when you press the button connected to this input, the brightness is automatically set to the value indicated by the programming software. • Adjust the brightness using two buttons: this function involves the use of two inputs - one is programmed to switch the light off or to reduce its brightness if held pressed, and the other is programmed to switch the light on or to increase its brightness if held pressed. • Control the local dimmer: in the same way as for the digital input on the dimmer, you can also program the input of another module so that a single press switches the light on/off, and holding the button pressed adjusts its brightness. **DIMMER WITH PRESENCE**: this function can be used to: • Set the dimmer using the Presence detection function, which uses a motion sensor connected to the input of a digital module to increase the brightness of the light if the sensor detects the presence of a person in the room, and to reduce the brightness or switch the light off if there is no-one in the room.
LOAD TYPE	select the load type in accordance with the type of lamp connected: **CAPACITIVE LOAD** for Halogen lamps with electronic transformer, compact fluorescent lamps, LED lamps, 230 Vac. **INDUCTIVE LOAD** for 230 Vac halogen lamps. **ELECTROMAGNETIC TRANSFORMER LOAD** for low voltage halogen lamps with electromagnetic transformer (wound).
MIN. VALUE	set the "Min. value" (1-255) to establish the minimum light intensity at which the controlled lamp should be switched on; at lower values the output will remain off. The minimum value cannot be set to 0.
SECOND VALUE	set a second value (0-255) to control lamp activation at a pre-set light intensity level. The setpoint must be greater than the minimum value (otherwise the light will remain off).
ON/OFF FADE SPEED	set the speed (slow/medium/fast) for light intensity level transition when switching from ON -> OFF, OFF -> ON.
DIMMING FADE SPEED	set the speed (slow/medium/fast) for light intensity level transition during adjustment.
DIMMER INPUT POLARITY	set the input polarity: NORMALLY OPEN / NORMALLY CLOSED
COURTESY — COURTESY VALUE	enter the value (0-255) at which the lamp will assume "absence" condition (presence not detected).
COURTESY — WAIT TIME MINUTES/ SECONDS	set the duration of the timed light activation interval as desired. If presence is detected, the timed light will come on for the pre-set period.

Groups

DIMMER OUTPUT GROUPS	**GROUP 1/2/3/4:** up to 4 groups can be associated with the dimmer output, to control the output using group commands. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**
PRIORITY GROUP	**PRIORITY GROUP:** a priority group can be associated with the dimmer output in order to lock/unlock the dimmer and set ON/OFF commands to establish dimmer behaviour on receipt of the lock/unlock command. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.** **STATUS ON SET COMMAND:** the module no longer manages any commands received over the BUS and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the programming software). **STATUS ON RESET COMMAND:** the module resumes normal operation and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the programming software).
VIRTUAL OUTPUTS GROUPS	**SECOND VALUE GROUP:**a group can be associated with the fixed value output to set the set point value with a zone command. **PRESENCE ENABLE GROUP:** a group can be associated with the output to enable/ disable the presence function with a group command. **PRESENCE GROUP:** a group can be associated with the output to enable/disable the presence function with a group command. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**

INTERFACE FOR DALI AND DMX PROTOCOLS - ART. 20004600

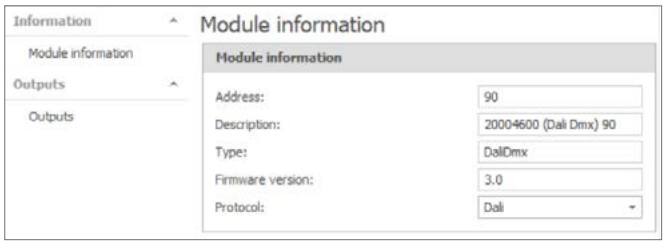


» *When you enter a module in the system, you will be asked which protocol you wish to use:*

- **DALI PROTOCOL**
- **DMX PROTOCOL**

- you can change the selection later from the MODULE INORMATION panel!

MODULE INFORMATION



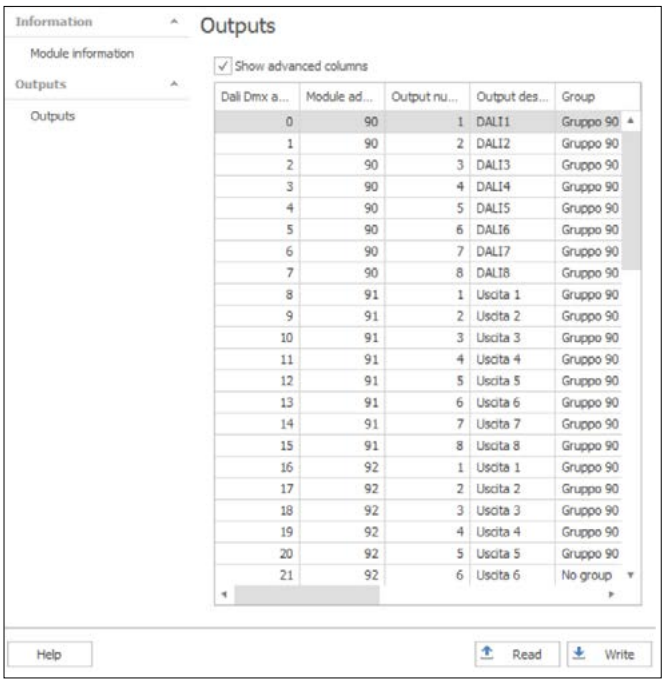
ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5 **The DALI-DMX module occupies 8 addresses!**
DESCRIPTION	enter a short description of the module to easily identify it within the project. Example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. **The availability of certain functions depends on the firmware version!**
PROTOCOL	you can choose between the **DALI** protocol and the **DMX** protocol, according to the components installed in the system.

Advanced

MODULE DELAY AFTER GROUP COMMAND RECEIVED	indicates the delay between receipt of a group command and switching of the module outputs associated with this group. This setting is used to delay the execution of commands across the various modules associated with the same group and therefore prevent the generation of large amounts of data over the BUS. *For example, if you order a module to deactivate all outputs with a group command and a delay of 2 seconds has been set, the outputs will be deactivated 2 seconds after the command is received.*
OUTPUT DELAY AFTER GROUP COMMAND RECEIVED	indicates the delay between activation of one output and the next on receipt of a group command controlling several outputs belonging to the same module. *For example, if you send a group command to a module to deactivate all outputs and a delay of 2 seconds has been set, the first output will be deactivated, then the second output will be deactivated 2 seconds later, and so on.*
OUTPUT STATUS RETRANSMISSION AFTER GROUP COMMAND	this tick box enables transmission, over the BUS, of the status of the outputs activated following a group command received by the module. We recommend enabling this tick when group commands have been programmed for the system and system managers (for example Planux Manager, Serial Bridge, etc...) are installed. This retransmission carried out by the module receiving the command, which may be sent with a maximum delay of 12 seconds, is important in order to update the status of the outputs on the system managers.

OUTPUTS

DESCRIPTION	enter a description for the output to facilitate identification
GROUP	you can select a group from those available
OUTPUT TYPE	you can choose between: **LIGHT** **RGB LIGHT** *(N.B.: each RGB light will occupy 3 outputs - one for each colour +G+B!)*
OUTPUT FUNCTION	the available functions are: **NOT USED** **MONOSTABLE** **INVERTER** **STEP BY SETP** **TIMED** **DIMMER**
TIME	this parameter defines the output activation time (TIMED outputs only!)



Select SHOW ADVANCED COLUMNS to display further parameters.

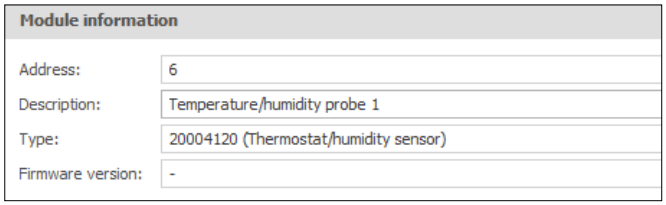
START / STOP DIMMER	set the parameters (0 ~ 255) to determine the brightness of the dimmer
FADE TIME / FADE STEP	set the parameters (0 ~ 255) to determine the dimmer transition times

INDOOR TEMPERATURE PROBE ON KEY-STONE ADAPTER - ART. 20004100

See “INDOOR TEMPERATURE AND HUMIDITY PROBE ON KEYSTONE ADAPTER - ART. 20004120”

INDOOR TEMPERATURE AND HUMIDITY PROBE ON KEYSTONE ADAPTER - ART. 20004120

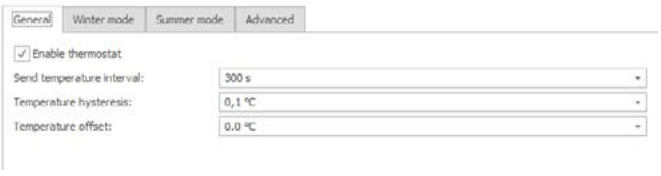
MODULE INFORMATION



ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph “Program module address” on page 5
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

ADVANCED	MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.
	OUTPUT STATUS RETRANSMISSION AFTER GROUP COMMAND	this tick box enables transmission, over the BUS, of the status of the outputs activated following a group command received by the module. We recommend enabling this tick when group commands have been programmed for the system and system managers (for example Planux Manager, Serial Bridge, etc...) are installed. This retransmission carried out by the module receiving the command, which may be sent with a maximum delay of 12 seconds, is important in order to update the status of the outputs on the system managers.
	ENABLE STATUS LED	this function enables the LED to indicate activation of the climate zone in temperature and/or humidity control.

THERMOSTAT PARAMETERS



General

ENABLE THERMOSTAT	indicates whether the thermostat function is enabled.
SEND TEMPERATURE INTERVAL	Indicates the time interval in seconds between each transmission of the temperature reading over the bus. Sending these temperature readings serves to update the system managers.
TEMPERATURE HYSTERESIS	indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in winter day mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In summer mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
TEMPERATURE OFFSET	you can specify a correction factor, in tenths of a degree (this can also be a negative value), to be added to the actual temperature reading. This is set by default to 0.

Winter mode / Summer mode

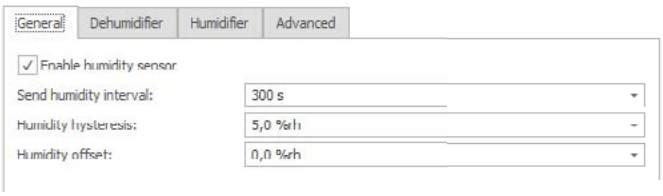
DAY THRESHOLD NIGHT THRESHOLD EMPTY THRESHOLD	select the setpoint and the zone to which the various operating modes will be applied
DAY / NIGHT / OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. *This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system.*

REMOTE VALVE	ADDRESS	enter the corresponding address used for activation of the temperature control system in the selected mode
	OUTPUTS	enter the corresponding output used for activation of the heating or cooling system in the selected mode
	FAN COIL SPEED CONTROL	**DIGITAL**: set this option if you want to control a multi-speed convector heater which is connected to a module over the BUS. In this case the first 4 module outputs on the installed module will be reserved for this function. Set the number of the module you wish to use and specify which of the 3 speeds will be used. *For example, if you select "Remote valve" and set the module number to 2, output 1 on module 2 will be used to enable and activate the temperature control machine, while outputs 2, 3 and 4 on module 2 will be used to control the 3 speed levels. Output 2 for speed level 1, output 3 for speed level 2 and output 4 for speed level 3.* **ANALOGUE:** this parameter can be used to set the climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in the advanced menu, and which are selected on the basis of the difference between the temperature setting for the climate zone and the actual temperature reading for the room. The greater the difference, the greater the output voltage (0-10V). The temperature differences that trigger changes in speed can be set in the advanced settings.

Advanced

WINTER-SUMMER SIGNALLING MODULE	this option can be used to configure an output to obtain an indication of summer mode.
DAY / NIGHT / OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. *This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system.* **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**
TEMPERATURE CHANGE FROM SPEED 1 TO 2 and from 1 TO 3	these values indicate the temperature difference, in relation to the setpoint, required for activation of speed 2 or speed 3 in fan coil mode

HUMIDISTAT PARAMETERS
(art. 20004120 only)



General

ENABLE HUMIDITY SENSOR	enables the humidity sensor function.
SEND HUMIDITY INTERVAL	indicates the time interval in seconds between each transmission of the setpoints and humidity settings over the BUS. These transmissions update the system managers as to the status (e.g. humidity readings). We recommend leaving this parameter set to the default value (5 minutes).
HUMIDITY HYSTERESIS	humidity hysteresis allows control of the humidification/dehumidification system without continuous activation or deactivation of the machine. For example, if you set a hysteresis of 5% and a humidity value of 60% for dehumidification, the dehumidifier will stop when the humidity reaches 55% (60% set value - 5% hysteresis) and restart when the value rises to 61%.
HUMIDITY OFFSET	you can specify a correction factor to be added to the actual humidity reading. This is set by default to 0.

Dehumidifier mode / Humidifier mode

DAY THRESHOLD NIGHT THRESHOLD EMPTY THRESHOLD	select the setpoint and the zone to which the various operating modes will be applied

DAY / NIGHT / OFF GROUP		a zone number can be assigned to one of the 3 day, night or off setpoints. *This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system.*
OUTPUT COMMAND	ADDRESS	enter the corresponding address used for activation of the humidity control system in the selected mode
	OUTPUTS	enter the corresponding output used for activation of the humidity control system in the selected mode
	FAN COIL SPEED CONTROL*	**DIGITAL**:set this option if you want to control a multi-speed convector heater connected to a module over the BUS. In this case the first 4 module outputs on the installed module will be reserved for this function. Set the number of the module you wish to use and specify which of the 3 speeds will be used. *For example, if you select "Remote valve" and set the module number to 2, output 1 on module 2 will be used to enable and activate the temperature control machine, while outputs 2, 3 and 4 on module 2 will be used to control the 3 speed levels. Output 2 for speed level 1, output 3 for speed level 2 and output 4 for speed level 3.* **ANALOGUE:** this parameter can be used to set climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in the advanced parameters menu, and which are selected on the basis of the difference between the humidity setting for the climate zone and the actual humidity measured in the room. The greater the difference, the greater the output voltage (0-10V). The differences in humidity that trigger changes in speed can be set in the advanced settings.

Advanced

DAY / NIGHT / OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. *This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system.*
HUMIDITY CHANGE	these values indicate the humidity difference, in relation to the setpoint, required for activation of speed 2 or speed 3 in fan coil mode.
FROM SPEED 1 2 3	these values indicate the analogue values for the three speeds to be applied in analogue fan coil mode.

DEW POINT PARAMETERS

(art. 20004120 only)

General

SEND DEW POINT INTERVAL	enter the time interval in seconds between each transmission of the setpoints and settings over the BUS. these transmissions update the system managers as to the status (e.g. humidity readings). We recommend leaving this parameter set to the default value (5 minutes).
DEW POINT HYSTERESIS	the dew point hysteresis allows control of the humidification/dehumidification system without continuous activation or deactivation of the machine. *For example, with a hysteresis of 0.4°, if a dew point offset of 20°C is set, the function will activate at 20°C and deactivate at 19.6°C.*
DEW POINT OFFSET	indicates the temperature below which the function is automatically deactivated

Advanced

ENABLE / DISABLE GROUP	you can assign an ENABLE GROUP and a DISABLE GROUP to the DEWPOINT function to activate or deactivate the function itself. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**
OUTPUT	you can select a MODULE and an OUTPUT to associate with the dew point function. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**

TEMPERATURE AND HUMIDITY PROBE, PT100 - ART. 20004140

MODULE INFORMATION

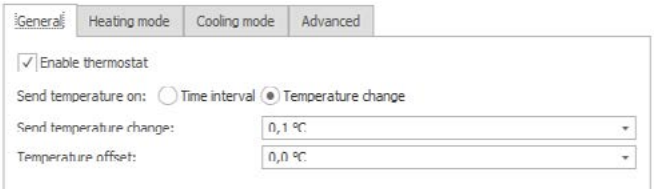
ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. ⚠ To assign an address to the module, use the DIP-switches
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

ADVANCED	ENABLE STATUS LED	this function enables the LED indicating activation of the climate zone in temperature for the temperature probe supplied.
	MINIMUM INPUT CLOSED TIME	sets the time for which the input must remain closed in order to send the command. *For example, if you want the button to perform the requested function only when held down for at least 4 seconds, simply set this time to 4s.*

INPUTS

For information regarding the programming of digital input 1, see paragraph "Inputs" on page 10

THERMOSTAT



General

ENABLE THERMOSTAT	tick the box to enable.
SEND TEMPERATURE ON:	select the method for transmission of the temperature reading over the bus. sending these temperature readings serves to update the system managers. **TIME INTERVAL**: the temperature reading will be sent to the system manager at time intervals set in the "Send temperature interval" field. **TEMPERATURE CHANGE**: the temperature reading will be sent to the system manager when there are changes in the room temperature reading equal to or greater than those set in the "Send temperature change" field
TEMPERATURE OFFSET	you can specify a correction factor, in tenths of a degree (this can also be a negative value), to be added to the actual temperature reading. This is set by default to 0.

Heating mode / Cooling mode

DAY THRESHOLD	set the desired temperature threshold
TEMPERATURE HYSTERESIS	Indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in day heating mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In cooling mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
ADDRESS	Enter the corresponding address used for activation of the temperature control system in the selected mode
OUTPUT	Enter the corresponding output used for activation of the heating or cooling system in the selected mode
FAN COIL SPEED CONTROL	DIGITAL: set this option if you want to control a convector heater with ON/ OFF inputs to change the speed and this convector heater is connected to a module over the BUS. In this case up to 3 outputs on the installed module will be reserved for this function. Set the number of the module and the number of the outputs (associated to speed levels) you wish to use. ANALOGUE: this parameter can be used to set climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in the advanced menu, and which are selected on the basis of the difference between the temperature setting for the climate zone and the actual temperature reading for the room. The greater the difference, the greater the output voltage (0-10V). The temperature differences that trigger changes in speed can be set in the advanced settings.

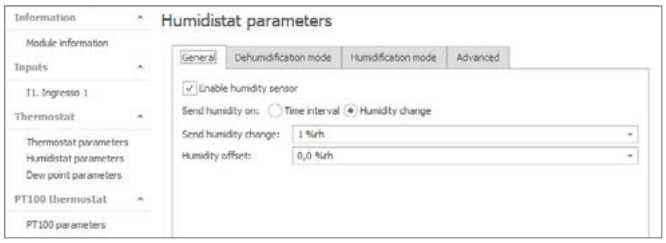
ADVANCED	FROST / HIGH TEMPERATURE PROTECTION THRESHOLD	the function protects the system in the event of extreme temperatures. if the temperature exceeds the set value, the system (even when set to OFF) will come on automatically to restore suitable conditions as dictated by temperature hysteresis.
	DAY GROUP OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
HEATING BLOCK	ENABLE BLOCK FROM PT100 TEMPERATURE	If this option is enables the system will stop heating as soon as the temperature read by the PT100 reaches the set threshold.

Advanced

HEATING / COOLING SIGNALLING	This option can be used to configure an output to obtain an indication of heating or cooling mode. Output active = cooling mode, output inactive = heating mode.
DAY GROUP OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. *This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system.* **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**

HUMIDITY SENSOR

General



ENABLE HUMIDITY SENSOR	Enables the humidity sensor function.
SEND HUMIDITY ON	Indicates the method for transmission of the humidity reading over the bus. Sending these humidity readings serves to update the system managers. **TIME INTERVAL**: the humidity reading will be sent to the system manager at time intervals set in the "Send humidity interval" field. **HUMIDITY CHANGE**: the humidity reading will be sent to the system manager when there are changes equal to or greater than those set in the "Send humidity change" field
HUMIDITY OFFSET	You can specify a correction factor to be added to the actual humidity reading. This is set by default to 0.

Dehumidification mode / Humidification mode

DAY THRESHOLD	Set the desired humidity threshold
HUMIDITY HYSTERESIS	humidity hysteresis allows control of the humidification/dehumidification system without continuous activation or deactivation of the machine. For example, if you set a hysteresis of 5% and a humidity value of 60% for dehumidification, the dehumidifier will stop when the humidity reaches 55% (60% set value - 5% hysteresis) and restart when the value rises to 61%.
ADDRESS	enter the corresponding address used for activation of the humidity control system in the selected mode
OUTPUT	enter the corresponding output used for activation of the humidity control system in the selected mode
FAN COIL SPEED CONTROL*	**DIGITAL**: set this option if you want to control a humidifier/dehumidifier with ON/OFF inputs for speed adjustment and this device is connected to a module over the BUS. In this case up to 3 outputs on the installed module will be reserved for this function. Set the number of the module and the number of the outputs (associated to speed levels) you wish to use. **ANALOGUE:** this parameter can be used to set the climate zone to control a multi-speed humidifier/dehumidifier unit with a 0-10V analogue input. This means the climate zone will send a speed control command to the analogue 0-10V output connected to the humidification/dehumidification unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in the advanced parameters menu, and which are selected on the basis of the difference between the humidity setting for the climate zone and the actual humidity measured in the room. The greater the difference, the greater the output voltage (0-10V). The differences in humidity that trigger changes in speed can be set in the advanced settings.

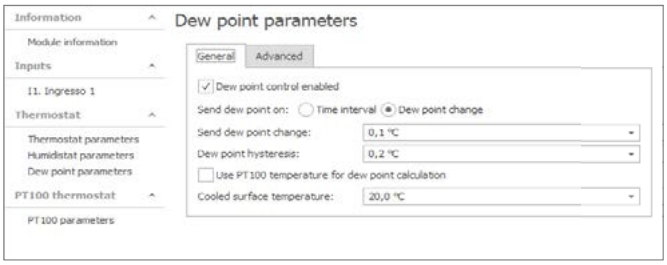
ADVANCED	DAY GROUP OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. *This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system.* **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**

Advanced

HUMIDIFICATION/ DEHUMIDIFICATION SIGNALLING	This option can be used to configure an output to obtain an indication of humidification or dehumidification mode. Output active = dehumidification mode, output inactive = humidification mode.
DAY GROUP OFF GROUP	A group number can be assigned to one of the 2 day or off setpoints. *This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system.* **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**

DEW POINT

General



DEW POINT CONTROL ENABLED	tick the box to enable.
SEND DEW POINT ON	select the method for transmission of the temperature reading over the bus. these transmissions update the system managers as to the status (e.g. humidity readings). We recommend leaving this parameter set to the default value (5 minutes). **TIME INTERVAL**: the temperature reading will be sent at time intervals set in the "Send dew point interval" field. **DEW POINT CHANGE**: the temperature reading will be sent when there are changes equal to or greater than those set in the "Send dew point change" field.
DEW POINT HYSTERESIS	the dew point hysteresis allows control of cooling system activation/deactivation without continuous activation or deactivation of the machine. For example, with a hysteresis of 0.4°, if a dew point offset of 20°C is set, the function will activate at 20°C and deactivate at 19.6°C.
USE PT 100 TEMP. TO CALCULATE DEW POINT	means the temperature reading from the PT100 sensor can be used to calculate the dew point.
COOLED SURFACE TEMPERATURE	if the PT100 probe is not being used to calculate the dew point, the temperature reached by the cooling surface (floor) when the system is running can be set.

Advanced

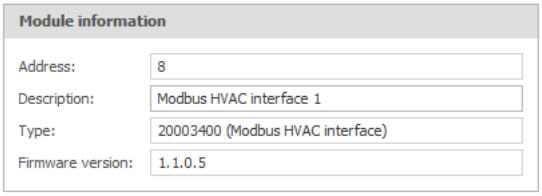
ENABLE / DISABLE GROUP	you can assign an ENABLE GROUP and a DISABLE GROUP to the DEWPOINT function to activate or deactivate the function itself. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
DEW POINT OVERCOMING SIGNALLING	a MODULE and an OUTPUT paired with the dew point function can be selected to show when the calculated limit has been exceeded. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

ENABLE / DISABLE GROUP	you can assign an ENABLE GROUP and a DISABLE GROUP to the DEWPOINT function to activate or deactivate the function itself. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
DEW POINT OVERCOMING SIGNALLING	a MODULE and an OUTPUT paired with the dew point function can be selected to show when the calculated limit has been exceeded. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

See paragraph "Thermostat" on page 21

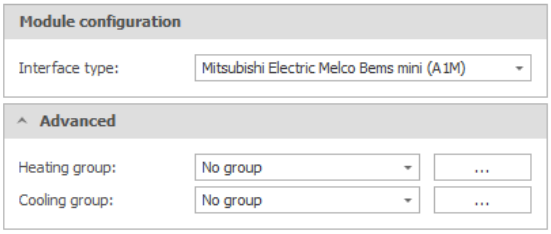
MODBUS HVAC INTERFACE MODULE - ART. 20003400

MODULE INFORMATION



ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

MODULE CONFIGURATION

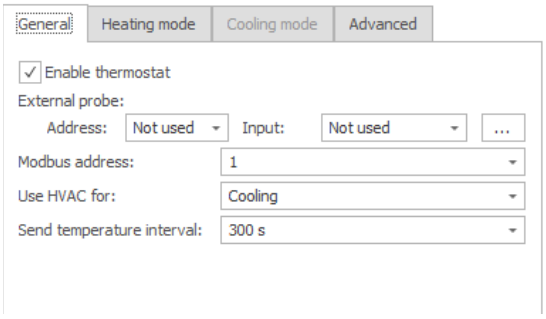


INTERFACE TYPE	Select the interface for your own heating/cooling system

ADVANCED	HEATING / COOLING GROUP	A group number can be assigned to each of the two operating modes (heating and cooling). This means it is possible, for example by closing a digital input, to set the same operating mode on all thermostats or Minitouch devices in the system. Pressing ... gives access to the group manager panel from which you can create or delete groups.

THERMOSTATS

General



ENABLE THERMOSTAT	Indicates whether the thermostat function is enabled.
ADDRESS	enter the address of the temperature probe on the BUS used for room temperature readings in the selected climate zone (for example, the address of a temperature probe art. 20004120) or of a system manager with integrated climate zone (for example, Icona Manager art. 20003310W)
INPUT	enter the input for the climate zone used for room temperature readings. If the selected device only has one input, you will have to set 1.
MODBUS ADDRESS	Enter the address set on the ModBus interface of the air conditioning machine for the selected climate zone.
USE HVAC FOR	Select the function that will be managed directly by the modbus. If both heating and cooling need to be controlled in a system, but only cooling is managed via ModBus protocol, the parameters for "heating" mode need to be set on the ModBus interface screen, while no parameters need to be programmed on the screen of the sensor providing room temperature readings.
SEND TEMPERATURE INTERVAL	Enter the time interval at which the temperature reading will be sent to the system manager

Heating mode / Cooling mode

DAY THRESHOLD	Set the desired temperature threshold
TEMPERATURE HYSTERESIS	Indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in day heating mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In cooling mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
ADDRESS	Enter the corresponding address used for activation of the temperature control system in the selected mode
OUTPUT	Enter the corresponding output used for activation of the heating or cooling system in the selected mode

Advanced

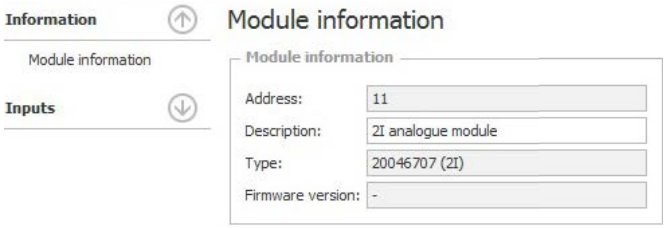
HEATING / COOLING SIGNALLING	This option can be used to configure an output to obtain an indication of heating or cooling mode. Output active = cooling mode, output inactive = heating mode.
HVAC FAN SPEEDS	Set the number of speed levels available on the cooling/heating system machines
ENABLE HVAC FAN SPEED AUTO	Enable this function if the machine used to control heating or cooling has an Automatic speed function. The speed will increase or decrease depending on the difference in temperature between the desired value and the actual value
HVAC VANE POSITIONS	Set the number of positions available for vane adjustment when directing the air onto the heating/cooling system machines
ENABLE HVAC VANE SWING	Enable this function if the machine used to control heating or cooling has an Automatic vane swing function for air direction adjustment.

ANALOGUE MODULES

Analogue modules can be used to read and set a signal between 0 and 10 V, and therefore make it possible to have an adjustable value which varies over time. The analogue inputs are usually used for the connection of sensors with a 0-10 V output, such as brightness level sensors, humidity sensors, temperature sensors, etc... The only device integrated into the Comelit system capable of providing a 0-10 V signal is the temperature sensor 20046708. When using the temperature sensor connected to the analogue input the system manager can be used to check, view and set the temperature measured by the sensor (in degrees Centigrade). If using other devices or temperature sensors, it will not be possible to view the recorded value on the system managers or set/adjust the intervention setpoints.
The analogue outputs (for example, on module 20046810) are usually used for the connection of dimmers with a 0-10V input, and therefore for brightness control. For dimmer operation, the 0-10 V output must be set up for the "Dimmer" function. Control of a 0-10 V output on the 20046810 module for the adjustment of a dimmer, for example, must be carried out either from a system manager or from a common digital input programmed to control the 20046810 module with the relevant output 1 or 2. It is not possible to control the 2 outputs on the 20046810 module simultaneously when adjusting the brightness from a single digital input, i.e. from one button.

2IN ANALOGUE MODULE - ART. 20046707

MODULE INFORMATION



ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. **⚠ The availability of certain functions depends on the firmware version!**

Advanced

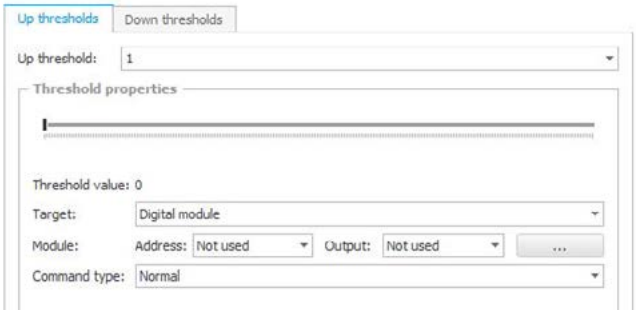
MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.

INPUTS

DESCRIPTION		enter a short description of the module to easily identify it within the project. Example: *Mod5 503 ground floor bathroom input*
TYPE		AUTO SEND STATUS / AUTO SET OUTPUT / THERMOSTAT
AUTO SEND STATUS	SEND VALUE INTERVAL	set a time (in seconds) for transmission of the input value via bus. These transmissions are used to update the analogue inputs.
AUTO SEND STATUS	SEND VALUE ON CHANGE	set the input variation value (0-255) for transmission via bus without waiting for the value transmission interval.
AUTO SET OUTPUT	COMMAND SEND DELAY	set a time (in seconds) for transmission of the command via bus after the set threshold has been exceeded.

Output activation thresholds

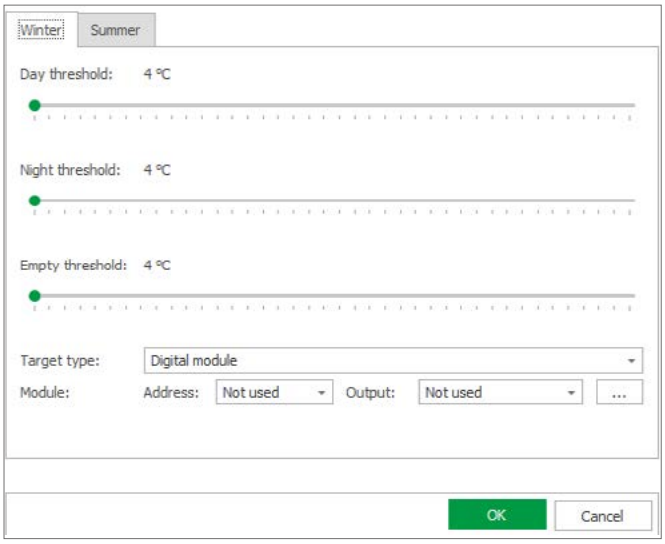
This option can be used to select setpoints (8 upward and 8 downward) for the 0-10V input, for the activation or deactivation of an output when the specified setpoint is exceeded. For example, it can be used to activate an output when a certain brightness level is detected by a 0-10 V dawn/dusk sensor. This means it is possible to activate 8 different outputs when the value recorded by the 0-10 V input increases, and deactivate the same (or different) outputs when the 0-10 V signal decreases. The value recorded by the analogue input is converted to an 8-bit value, from 0 to 255. The value recorded and converted to an 8-bit format cannot be viewed on the system manager devices.



THERMOSTAT	SEND VALUE INTERVAL	Indicates the time interval in seconds between each transmission of the temperature reading over the bus. Sending these temperature readings serves to update the system managers.
THERMOSTAT	TEMPERATURE OFFSET	if the temperature reading taken in the room by another instrument is slightly different to that displayed by the thermostat due to the installation position of the latter, a correction coefficient, measured in tenths of a degree (this can also be negative), can be applied and added to the actual temperature reading. This is set by default to 0.
THERMOSTAT	TEMPERATURE HYSTERESIS	indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in winter day mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In summer mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.

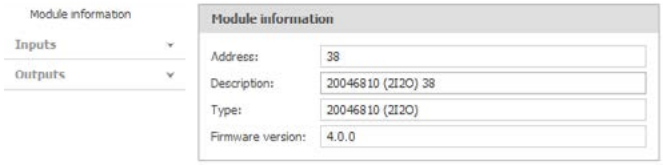
Thermostat thresholds

This option allows you to set a temperature threshold for the various operating modes.



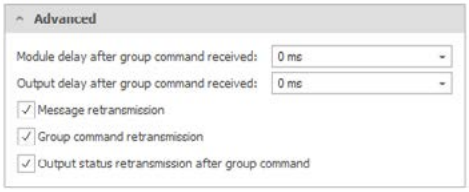
2IN/2OUT ANALOGUE MODULE - ART. 20046810

MODULE INFORMATION



ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: Mod5 503 ground floor bathroom input
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ The availability of certain functions depends on the firmware version!

Advanced



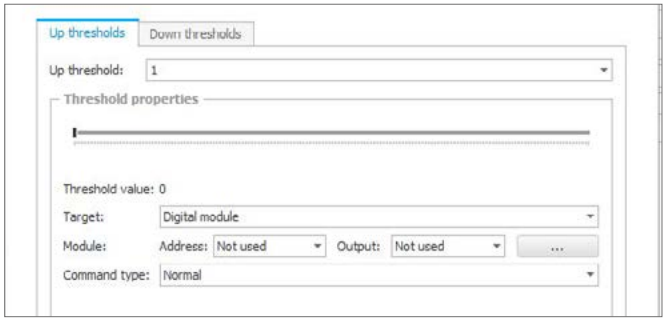
MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.

INPUTS

DESCRIPTION		enter a short description of the module to easily identify it within the project. example: Mod5 503 ground floor bathroom input
TYPE		AUTO SEND STATUS AUTO SET OUTPUT
AUTO SEND STATUS	SEND VALUE INTERVAL	set a time (in seconds) for transmission of the input value via bus. These transmissions are used to update the analogue inputs.
AUTO SEND STATUS	SEND VALUE ON CHANGE	set the input variation value (0-255) for transmission via bus without waiting for the value transmission interval.
AUTO SET OUTPUT	COMMAND SEND DELAY	set a time (in seconds) for transmission of the command via bus after the set threshold has been exceeded.

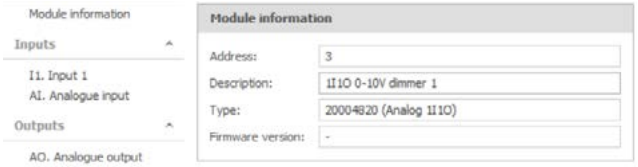
Output activation thresholds

This option can be used to select setpoints (8 upward and 8 downward) for the 0-10V input, for the activation or deactivation of an output when the specified setpoint is exceeded. For example, it can be used to activate an output when a certain brightness level is detected by a 0-10 V dawn/dusk sensor. This means it is possible to activate 8 different outputs when the value recorded by the 0-10 V input increases, and deactivate the same (or different) outputs when the 0-10 V signal decreases. The value recorded by the analogue input is converted to an 8-bit value, from 0 to 255. The value recorded and converted to an 8-bit format cannot be viewed on the system manager devices.



1IN/1OUT ANALOGUE MODULE - ART. 20004820

MODULE INFORMATION



ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. ⚠ To assign an address to the module, use the DIP-switches.
DESCRIPTION	Enter a short description of the module to easily identify it within the project. We recommend entering the installation point and function of that module. Example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

ADVANCED	MODULE DELAY AFTER GROUP COMMAND RECEIVED	Sets the delay between receipt of a group command and switching of the module outputs associated with this group. This setting is used to delay the execution of commands across the various modules associated with the same group and therefore prevent the generation of large amounts of data over the BUS. *For example, if you order a module to deactivate all outputs with a group command and a delay of 2 seconds has been set, the outputs will be deactivated 2 seconds after the command is received.*
ADVANCED	MINIMUM INPUT CLOSED TIME	Sets the time for which the input must remain closed in order to send the command. *For example, if you want the button to perform the requested function only when held down for at least 4 seconds, simply set this time to 4s.*

INPUTS

Input 1

Standard parameters

INPUT DESCRIPTION	Enter a description indicating the type of command set for the input. The description is modified in the device list table.
TARGET TYPE	**MODULE**: use the module function to control one or more module outputs from a digital input. When this option is selected, you must enter the number of the module and output(s) you wish to control. **GROUP**: this function allows you to command multiple outputs on different modules. When this option is selected, you must enter the group number you wish to control. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc. To do this, the outputs must be assigned to the same group on the output settings screen. For example, if you want to control all the lights, one group (for example GROUP 1) must be assigned to all the outputs connected to the lights, and then an input set as GROUP in the TARGET TYPE field, entering GROUP 1. **SYSTEM MANAGER**: the system manager function sends a command directly to the system managers, for example: Icona Manager, Planux Manager, Serial Bridge, Minitouch. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. *For example, if you want to use a button to activate a scenario stored in the memory of a Planux Manager or Minitouch system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the Serial Bridge.*

COMMAND TYPE	**NORMAL:** the module sends a command to the target, controlling the output according to the way it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.* **SET**: the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.* **RESET**: the module sends a "force OFF" command and the output is then deactivated independently of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind" or "Venetian blind", the relay is not activated and the blind to which it is connected will not move. *For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.* **ACTIVATE/DEACTIVATE ANALOGUE OUTPUT**: this command allows you to activate/deactivate an analogue output. *For example, a dimmer 20046851.* **CYCLIC SET/RESET**: the CYCLIC SET/RESET function allows you to send alternate SET and RESET commands from the same input. For example, if you configure a button to control 3 outputs of a digital module and you configure the input as cyclic SET/RESET, the first time the button is pressed it will send the SET command to activate the 3 outputs and the next time it will send the RESET command to deactivate the 3 outputs. This function is particularly useful when you have various outputs controlled individually from different points that you wish to bring into alignment control from a single point. **MONOSTABLE SET/RESET**: this command can be used to send SET command when the input is closed and a RESET command when the input is opened. For example, you can connect a digital input to a dusk sensor with a free ON/OFF contact so that the lights switch on when the dusk sensor trips and switch off when the sensor is deactivated. With this input, when the dusk sensor contact closes a SET command is sent to activate the outputs, and when the dusk sensor contact opens a RESET command is sent to switch off the lights.

Long press function

This function allows you to send a second command from the same button connected to a digital input when the button is held pressed for a period of time that exceeds the time set for this function.
For example, it is possible to configure the button to control the switching on or off one light in a room with short press or to send a command that switches off all the lights in the room with a long press (group command).

TARGET TYPE	Paragraph "Standard parameters" on page 25
COMMAND TYPE	Paragraph "Standard parameters" on page 25
MODULE	Paragraph "Standard parameters" on page 25
TIME	this parameter can be used to set the length of time that a button must be pressed before the command is recognised as a long press. (MAX 12 secs.)

Advanced parameters

POLARITY	NORMALLY OPEN NORMALLY CLOSED
ENABLE INPUT STATUS TRANSMISSION AT MODULE STARTUP	This option allows you to check the module status and send the corresponding command via BUS at each startup and when the power supply is restored. We recommend enabling the function if the input is configured to lock some functions which otherwise would remain locked if the power supply was not connected when the unlock command was made. *For example, the input is configured to send a cyclic SET/RESET command to a priority group to lock the irrigation command output.* If at the moment of the output unlocking event there is a voltage drop, the command will not be sent. When the module restarts when the power supply is restored, the input might be open but the output will still be locked. With this option enabled, on module startup the input status is sent over the BUS, and therefore, if the input is open, the output will be unlocked.

Analogue input

Standard parameters

INPUT DESCRIPTION	Enter a short description of the module to easily identify it within the project. We recommend entering the installation point and function of that module. Example: Mod5 503 ground floor bathroom input
INPUT TYPE	Select the type of sensor connected to the analogue input 4-20 mA / 0-10V

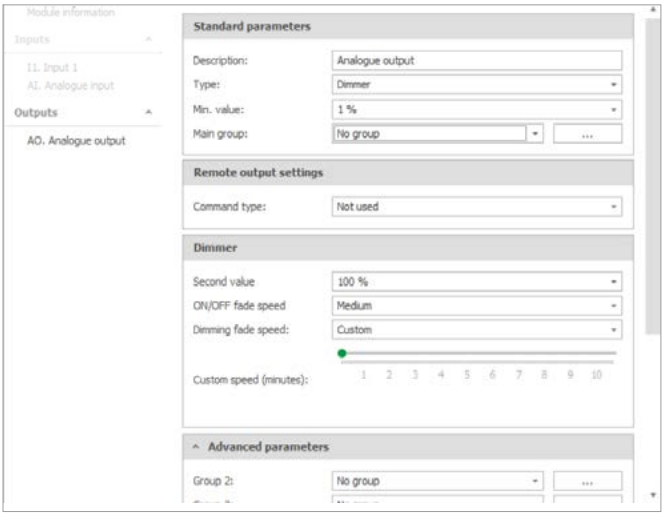
FUNCTION	Select the function to be activated for the analogue input	
	AUTO SEND STATUS	Used to send the value read on the input on the basis of a time interval or a change
	AUTO SET OUTPUT	This option can be used to select setpoints (8 upward and 8 downward) for the analogue input, for the activation or deactivation of an output when the specified setpoint is exceeded. For example, it can be used to activate an output when a certain brightness level is detected by a twilight sensor. Another option is to activate 8 different outputs when the value recorded by the analogue input increases, and deactivate them when the signal decreases. The value recorded by the analogue input is converted to an 8-bit value, from 0 to 255.

AUTO SEND STATUS	SEND VALUE INTERVAL	Set a time (in seconds) for transmission of the input value via bus. These transmissions are used to update the analogue inputs.
	SEND VALUE ON CHANGE	Set the input variation value (0-255) for transmission via bus without waiting for the value transmission interval.

AUTO SET OUTPUT	THRESHOLDS	Set the values to be sent to the modules or groups for each of the 8 upper or lower thresholds.
	COMMAND SEND DELAY	Set a time (in seconds) for transmission of the command via bus after the set threshold has been exceeded.

OUTPUTS

Analogue output



DESCRIPTION	Enter a short description to easily identify the output.

TYPE	**DIMMER**: this function can be used to: • Select a pre-set brightness level: when you press the button associated with this function, the brightness is automatically set to the value indicated by the programming software. • Adjust the brightness using two buttons: this function involves the use of two inputs - one is programmed to switch the light off or to reduce its brightness if held pressed, and the other is programmed to switch the light on or to increase its brightness if held pressed. • Control the local dimmer: in the same way as for the digital input on the dimmer, you can also program the input of another module so that a single press switches the light on/off, and holding the button pressed adjusts its brightness. Paragraph "DIMMER function:" on page 27 **DIMMER WITH PRESENCE**: this function can be used to: • Set the dimmer using the Presence detection function, which uses a motion sensor connected to the input of a digital module to increase the brightness of the light if the sensor detects the presence of a person in the room, and to reduce the brightness or switch the light off if there is no-one in the room. Paragraph "DIMMER WITH PRESENCE function:" on page 27 **MIRROR ANALOGUE INPUT**: the function can be used to set the output to the same value as the selected analogue input. The analogue input can be mirrored on both the local analogue output and the output of another module. Paragraph "MIRROR ANALOGUE INPUT function:" on page 27 **MIRROR ANALOGUE OUTPUT:** this function can be used to set the output to the same selected analogue value. The analogue output can be mirrored on both the local analogue output and the output of another module. Paragraph "MIRROR ANALOGUE OUTPUT function:" on page 27 **LINEAR OUTPUT FROM ANALOGUE INPUT:** this function can be used to set the output in line with the value of the selected analogue input. This makes it possible to set the behaviour of the output in relation to the input value. It is possible to control both the local analogue output and the output of another module. Paragraph "LINEAR OUTPUT FROM ANALOGUE INPUT function:" on page 27 **PID DIMMER (keeps brightness constant):** this function can be used to automatically regulate the output to maintain the selected setpoint value. Paragraph "PID DIMMER function (keeps brightness constant):" on page 28 **PID DIMMER WITH PRESENCE (keeps brightness constant):** this function can be used to automatically regulate the output to maintain the selected setpoint value if the presence of an external motion sensor is detected. If motion is not detected within the specified time period, the output will reach the set value. Paragraph "PID DIMMER WITH PRESENCE function (keeps brightness constant):" on page 28

DIMMER function:

STANDARD PARAMETERS	**MINIMUM VALUE:** set the "Min. value" (1-100%) to establish the minimum light intensity at which the controlled lamp should be switched on; at lower values the output will remain off.		
	MAIN GROUP: a group can be associated to control the output using group commands. Pressing [...] gives access to the group manager panel from which you can create or delete groups.		
REMOTE OUTPUT SETTINGS	**COMMAND TYPE:** NOT USED: the function can only be used to control the local output for the module. MODULE: this function con be used to control, as well as the local output for the module, the output of another module. When this option is selected, you must enter the module number and the output number you wish to control. GROUP: the function can be used to control, as well as the local output for the module, a group. When this option is selected, you must enter the group you wish to control.		
DIMMER	**SECOND VALUE:** set a second value (1-100%) to control lamp activation at a pre-set light intensity level. This value must be greater than the minimum value (otherwise the light will remain off).		
	ON/OFF FADE SPEED: set the speed (slow/medium/fast) for light intensity level transition when switching from ON -> OFF, OFF -> ON.		
	DIMMING FADE SPEED: set the speed (slow/medium/fast) for light intensity level transition during adjustment.		
ADVANCED PARAMETERS	**GROUP 2-3-4:** up to 4 groups can be associated to control the output using group commands. Pressing [...] gives access to the group manager panel from which you can create or delete groups.		
	PRIORITY COMMAND	**PRIORITY GROUP**	a priority group can be associated with the dimmer output in order to lock/unlock the dimmer and set ON/OFF commands to establish dimmer behaviour on receipt of the lock/unlock command. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
		STATUS ON SET COMMAND	the module no longer manages any commands received over the BUS and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the SimpleHome programming software).
		STATUS ON RESET COMMAND	the module resumes normal operation and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the SimpleHome programming software).
	VIRTUAL OUTPUTS GROUPS	**SECOND VALUE GROUP**	a group can be associated to set the second value for the output via "Group command". Pressing [...] gives access to the group manager panel from which you can create or delete groups.

DIMMER WITH PRESENCE function:

STANDARD PARAMETERS	**MINIMUM VALUE:** set the "Min. value" (1-100%) to establish the minimum light intensity at which the controlled lamp should be switched on; at lower values the output will remain off. The minimum value cannot be set to 0.
	MAIN GROUP: a group can be associated to control the output using group commands. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
REMOTE OUTPUT SETTINGS	**COMMAND TYPE:** NOT USED: the function can only be used to control the local output for the module. MODULE: this function con be used to control, as well as the local output for the module, the output of another module. When this option is selected, you must enter the module number and the output number you wish to control. GROUP: the function can be used to control, as well as the local output for the module, a group. When this option is selected, you must enter the group you wish to control.
COURTESY	**COURTESY VALUE:** enter the value (0-100%) at which the lamp will assume "absence" condition (presence not detected).
	WAIT TIME: set the duration of the timed light activation interval as desired. If presence is detected, the timed light will come on for the pre-set period.
DIMMER	**ON/OFF FADE SPEED:** set the speed (slow/medium/fast) for light intensity level transition when switching from ON -> OFF, OFF -> ON.
	DIMMING FADE SPEED: set the speed (slow/medium/fast) for light intensity level transition during adjustment.

ADVANCED PARAMETERS	**GROUP 2-3-4:** up to 4 groups can be associated to control the output using group commands. Pressing [...] gives access to the group manager panel from which you can create or delete groups.		
	PRIORITY COMMAND	**PRIORITY GROUP**	Apriority group can be associated with the dimmer output in order to lock/unlock the dimmer and set ON/OFF commands to establish dimmer behaviour on receipt of the lock/unlock command. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
		STATUS ON SET COMMAND	the module no longer manages any commands received over the BUS and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the SimpleHome programming software).
		STATUS ON RESET COMMAND	the module resumes normal operation and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the SimpleHome programming software).
	VIRTUAL OUTPUTS GROUPS Pressing [...] gives access to the group manager panel from which you can create or delete groups.	**PRESENCE ENABLE GROUP**	A group can be associated with the output to enable/disable the presence function with a group command. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
		PRESENCE GROUP	A group can be associated with the output to activate the presence function with a group command. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

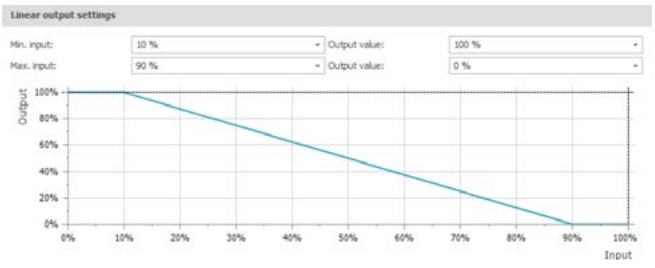
MIRROR ANALOGUE INPUT function:

STANDARD PARAMETERS	**MODULE:** set the address and number for the analogue input you want to mirror.
	MINIMUM VALUE: set the minimum value under which the output cannot fall. (Minimum value that can be set 1%).
REMOTE OUTPUT SETTINGS	**COMMAND TYPE:** NOT USED: the function can only be used to control the local output for the module. MODULE: this function con be used to control, as well as the local output for the module, the output of another module. When this option is selected, you must enter the module number and the output number you wish to control. GROUP: the function can be used to control, as well as the local output for the module, a group. When this option is selected, you must enter the group you wish to control.

MIRROR ANALOGUE OUTPUT function:

STANDARD PARAMETERS	**MODULE:** set the address and number for the analogue output you want to mirror.
REMOTE OUTPUT SETTINGS	**COMMAND TYPE:** NOT USED: the function can only be used to control the local output for the module. MODULE: this function con be used to control, as well as the local output for the module, the output of another module. When this option is selected, you must enter the module number and the output number you wish to control. GROUP: the function can be used to control, as well as the local output for the module, a group. When this option is selected, you must enter the group you wish to control.

LINEAR OUTPUT FROM ANALOGUE INPUT function:



STANDARD PARAMETERS	**MODULE:** set the address and number for the analogue input you want to mirror.
REMOTE OUTPUT SETTINGS	**COMMAND TYPE:** NOT USED**:** the function can only be used to control the local output for the module. MODULE: this function con be used to control, as well as the local output for the module, the output of another module. When this option is selected, you must enter the module number and the output number you wish to control. GROUP: the function can be used to control, as well as the local output for the module, a group. When this option is selected, you must enter the group you wish to control.
LINEAR OUTPUT SETTINGS	**MINIMUM INPUT-OUTPUT VALUE:** minimum value of the input to be associated with the output. You also need to set the value which should be assumed by the output when the minimum input value is reached. **MAXIMUM INPUT-OUTPUT VALUE:** maximum value of the input to be associated with the output. You also need to set the value which should be assumed by the output when the maximum input value is reached. The chart shows the behaviour of the output in relation to the input values.

PID DIMMER function (keeps brightness constant):

STANDARD PARAMETERS	**MODULE:** set the address and number of the analogue input to which the reference sensor for automatic output control is connected.		
	MAIN GROUP: a group can be associated to control the output using group commands. Pressing [...] gives access to the group manager panel from which you can create or delete groups.		
REMOTE OUTPUT SETTINGS	**COMMAND TYPE:** NOT USED: the function can only be used to control the local output for the module. MODULE: this function con be used to control, as well as the local output for the module, the output of another module. When this option is selected, you must enter the module number and the output number you wish to control. GROUP: the function can be used to control, as well as the local output for the module, a group. When this option is selected, you must enter the group you wish to control.		
PID SETTINGS	**SETPOINT VALUE:** set the value that should be used for automatic output regulation. The output is corrected until the selected setpoint value is reached.		
	MINIMUM VALUE: set the minimum output regulation value. During regulation, the output will never drop below this value.		
	DEFAULT VALUE: set the value that should be assumed by the output at the start of regulation.		
	PID MODE: set the value corresponding to the regulation speed.		
ADVANCED PARAMETERS	**GROUP 2-3-4:** up to 4 groups can be associated to control the output using group commands. Pressing [...] gives access to the group manager panel from which you can create or delete groups.		
	PRIORITY COMMAND	**PRIORITY GROUP**	a priority group can be associated with the dimmer output in order to lock/unlock the dimmer and set ON/OFF commands to establish dimmer behaviour on receipt of the lock/unlock command. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
		STATUS ON SET COMMAND	the module no longer manages any commands received over the BUS and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the SimpleHome programming software).
		STATUS ON RESET COMMAND	the module resumes normal operation and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the SimpleHome programming software).

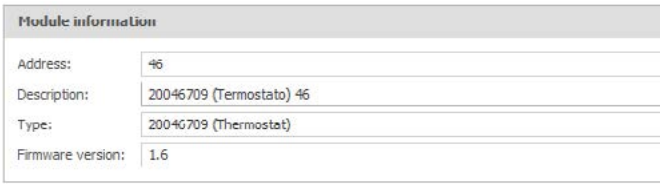
PID DIMMER WITH PRESENCE function (keeps brightness constant):

STANDARD PARAMETERS	**MODULE:** set the address and number of the analogue input to which the reference sensor for automatic output control is connected.
	MAIN GROUP: a group can be associated to control the output using group commands. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
REMOTE OUTPUT SETTINGS	**COMMAND TYPE:** NOT USED: the function can only be used to control the local output for the module. MODULE: this function con be used to control, as well as the local output for the module, the output of another module. When this option is selected, you must enter the module number and the output number you wish to control. GROUP: the function can be used to control, as well as the local output for the module, a group. When this option is selected, you must enter the group you wish to control.
COURTESY	**COURTESY VALUE:** enter the value (0-100%) at which the lamp will assume “absence” condition (presence not detected).
	WAIT TIME: set the duration of the timed light activation interval as desired. If presence is detected, the timed light will come on for the pre-set period.

PID SETTINGS	**SETPOINT VALUE:** set the value that should be used for automatic output regulation. The output is corrected until the selected setpoint value is reached.		
	MINIMUM VALUE: set the minimum output regulation value. During regulation, the output will never drop below this value.		
	DEFAULT VALUE: set the value that should be assumed by the output at the start of regulation.		
	PID MODE: set the value corresponding to the regulation speed.		
ADVANCED PARAMETERS	**GROUP 2-3-4:** up to 4 groups can be associated to control the output using group commands. Pressing [...] gives access to the group manager panel from which you can create or delete groups.		
	PRIORITY COMMAND	**PRIORITY GROUP**	A priority group can be associated with the dimmer output in order to lock/unlock the dimmer and set ON/OFF commands to establish dimmer behaviour on receipt of the lock/unlock command. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
		STATUS ON SET COMMAND	the module no longer manages any commands received over the BUS and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the SimpleHome programming software).
		STATUS ON RESET COMMAND	the module resumes normal operation and forces the output to assume the set ON/OFF status (regardless of how the output was programmed using the SimpleHome programming software).
	VIRTUAL OUTPUTS GROUPS Pressing [...] gives access to the group manager panel from which you can create or delete groups.	**PRESENCE ENABLE GROUP**	A group can be associated with the output to enable/disable the presence function with a group command. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
		PRESENCE GROUP	A group can be associated with the output to activate the presence function with a group command. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

FLUSH-MOUNTING LCD THERMOSTAT - ART. 20046709

MODULE INFORMATION



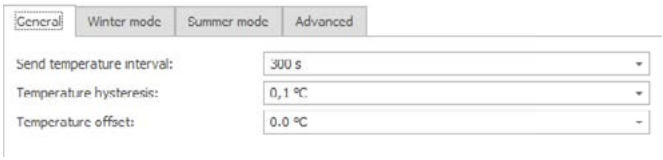
ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: Ground floor bathroom thermostat
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ The availability of certain functions depends on the firmware version!

Advanced

MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.

PARAMETERS

General



SEND TEMPERATURE INTERVAL	set the time, in seconds, for transmission of the temperature reading via bus. sending these temperature readings serves to update the system managers.
TEMPERATURE HYSTERESIS	set the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in winter day mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In summer mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
TEMPERATURE OFFSET	if the temperature reading taken in the room by another instrument is slightly different to that displayed by the thermostat due to the installation position of the latter, a correction coefficient, measured in tenths of a degree (this can also be negative), can be applied and added to the actual temperature reading. This is set by default to 0.

Winter mode, summer mode

DAY - NIGHT - EMPTY THRESHOLD	select the setpoint and the zone to which the various operating modes will be applied
DAY / NIGHT / OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system.

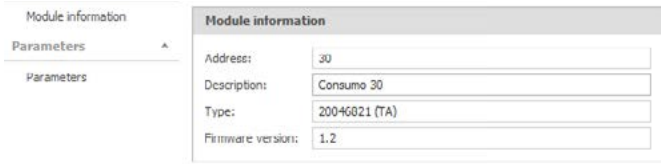
REMOTE VALVE	ADDRESS	enter the corresponding address used for activation of the temperature control system in the selected mode
	OUTPUT	enter the corresponding output used for activation of the temperature control system in the selected mode
	FAN COIL SPEED CONTROL	**DIGITAL**: set this option if you want to control a multi-speed convector heater which is connected to a module over the BUS. In this case the first 4 module outputs on the installed module will be reserved for this function. Set the number of the module you wish to use and specify which of the 3 speeds will be used. *For example, if you select "Remote valve" and set the module number to 2, output 1 on module 2 will be used to enable and activate the temperature control machine, while outputs 2, 3 and 4 on module 2 will be used to control the 3 speed levels. Output 2 for speed level 1, output 3 for speed level 2 and output 4 for speed level 3.*

Advanced

WINTER-SUMMER SIGNALLING MODULE	this option can be used to configure an output to obtain an indication of summer mode.
DAY / NIGHT / OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system. Pressing ... gives access to the group manager panel from which you can create or delete groups.
TEMPERATURE CHANGE FROM SPEED 1 TO 2 and from 1 TO 3	these values indicate the temperature difference, in relation to the setpoint, required for activation of speed 2 or speed 3 in fan coil mode

LOAD AND CONSUMPTION MANAGEMENT DIN (TA) - ART. 20046821

MODULE INFORMATION



ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. To change the module address number, proceed as in paragraph "Program module address" on page 5
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: Mod5 503 ground floor bathroom input
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ The availability of certain functions depends on the firmware version!

Advanced parameters

MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.
MIN. POWER CHANGE FOR SENDING AUTOMATIC VALUE	select the desired value (in W) for threshold
AUTOMATIC VALUE SEND INTERVAL	select the desired time interval between each message sent.
IMMEDIATE POWER THRESHOLD	absorption setpoint (in W) for immediate cut-off.
TIMED POWER THRESHOLD	absorption setpoint (in W) for timed cut-off.
HYSTERESIS	set the desired value (in W)
TOLERANCE	tolerance of power in excess of setpoint
INTERVAL BETWEEN CONNECTIONS	select the time period that must elapse with power available before reconnecting a load (default=5 sec.)
INTERVAL BETWEEN DISCONNECTIONS	select the time period that must elapse before DISCONNECTING a load due to the power threshold being exceeded (default = 5 sec.)
SIGNALLING MODULE ADDRESS	set the desired signalling module address
SIGNALLING MODULE OUTPUT	set the desired signalling module output

PARAMETERS

Load disconnection manager

DISCONNECTION ORDER	indicates the order in which the various loads will be disconnected on reaching the power setpoint
DESCRIPTION	enter a general description of the load. The description is shown in the "Loads" menu on the system manager.
MODULE ADDRESS	enter the address of the module connected to the load
MODULE OUTPUT	enter the output of the module connected to the load
...	[for future use] this function can be used to select via a graphic interface the module and the output connected to the load
POWER	enter the anticipated consumption for the entered load. This value is only used during reconnection, to prevent continuous connection and disconnection of loads. We recommend entering the average consumption and not the maximum power value. The value should never be greater than the value set for the disconnection setpoints minus the tolerance and delta values.
MINIMUM DISCONNECTION TIME	time period that must elapse after the load has been DISCONNECTED due to the power threshold being exceeded, before an attempt to reconnect it is made (default = 1 min.)
INVERT OUTPUT	N/C - N/O

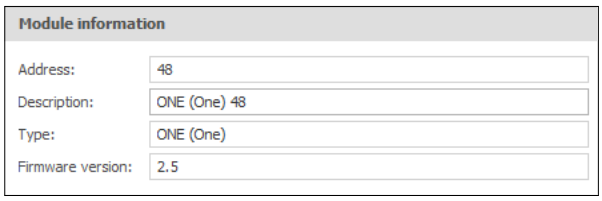
Show power consumption

UNIT	this value cannot be selected
FUNCTION	select either CONSUMPTION or PRODUCTION as the function
COST PER kWh	enter the cost per kWh according to the type of load
CURRENCY	enter the reference currency
CO2 CONSTANT [kg/kWh]	in the case of electricity production systems, it is possible to set the CO2 constant saved by the system producing the energy. If there are several inputs set as production (for example, in a three-phase photovoltaic system), they must all be set with the same value. The value can subsequently by modified through the system manager menu. The CO2 graphic is automatically displayed by the system manager when a chart representing energy production is present.

4. ENTRANCE PANELS

ONE

MODULE INFORMATION



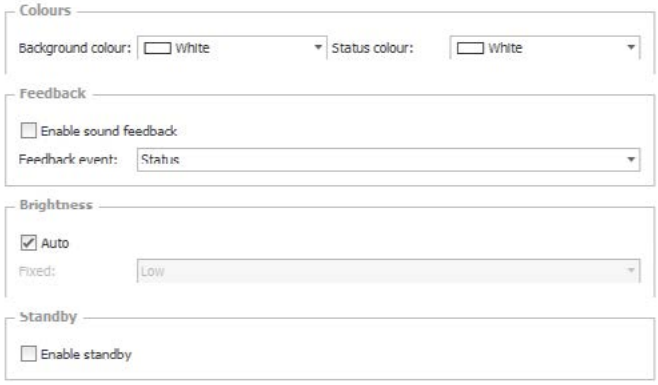
ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. ⚠ To assign an address to the module, use the DIP-switches.
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: *Mod5 503 ground floor bathroom input*
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ **The availability of certain functions depends on the firmware version!**

ADVANCED	DELAY BETWEEN SCENARIO STEPS	this parameter can be used to set a delay time for the execution of the 8 commands relating to the scenario input. This time only adjusts the time it takes to execute the commands carried out by the scenario input. For example: command 1 = blind; command 2 = light off; delay = 3000ms (3 sec.) On pressing the button, the blind is lowered immediately and 3 seconds later the light is switched off.
	MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.
	GROUP COMMAND RETRANSMISSION	this tick enables retransmission of a group command. Retransmission sends the group command 3 times. The group command has no status response, as it is not possible to indicate the status of several outputs. We recommend that this tick is always enabled if group commands are used across the system.

CONFIGURATION

Graphic settings

COLOURS	this menu can be used to set all module buttons to the same colour in a single action. This function takes priority over the settings performed manually on each individual LED. Select the colours of the LEDs for IDLE and ACTIVATED statuses.
FEEDBACK	**ENABLE SOUND FEEDBACK** is used to activate sound feedback, choosing between **STATUS** (tone emitted on change of status) and PRESS (tone emitted when pressed).
BRIGHTNESS	**AUTO**: when this function is activated, the brightness of the keys will be adjusted automatically according to the ambient light conditions detected by the on-board sensor. **FIXED**: select the brightness, choosing between LOW / MEDIUM / HIGH
STANDBY	if the Standby function is activated, the ONE control device will switch off key lighting after 5 seconds of inactivity, in order to save energy.



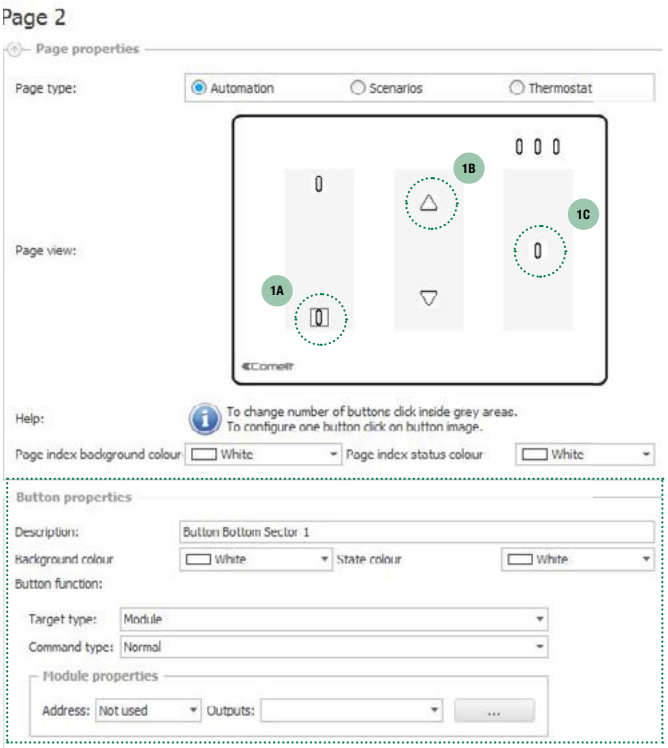
⚠ The ONE control device has 3 screens that can be programmed with 3 different functions:

- **AUTOMATION MANAGEMENT**
- **SCENARIO MANAGEMENT** (max. 1 screen per device)
- **THERMOSTAT MANAGEMENT** (max. 1 screen per device)

• AUTOMATION MANAGEMENT

Page properties

1. Select AUTOMATED DEVICE
2. Select the desired NUMBER of BUTTONS (1 -2 -3 - arrows) for each SECTOR by clicking on the grey area (at each click the type of button will change for that sector)
3. if necessary, change the PAGE INDEX BACKGROUND COLOUR and the PAGE INDEX STATUS COLOUR from the drop-down menu.



1. Select the SINGLE BUTTON you wish to configure. [1A - 1B - 1C]
2. Enter the parameters in the "Button properties" window to configure the button function.

Button properties

NAME	Name of selected button - NON-MODIFIABLE - software-managed
DESCRIPTION	Field used to enter a short description of the function or the module managed by the button/arrow
BACKGROUND COLOUR	Select a colour to identify the outputs inactive status for the controlled module
STATUS COLOUR	Select a colour to identify the outputs active status for the controlled module

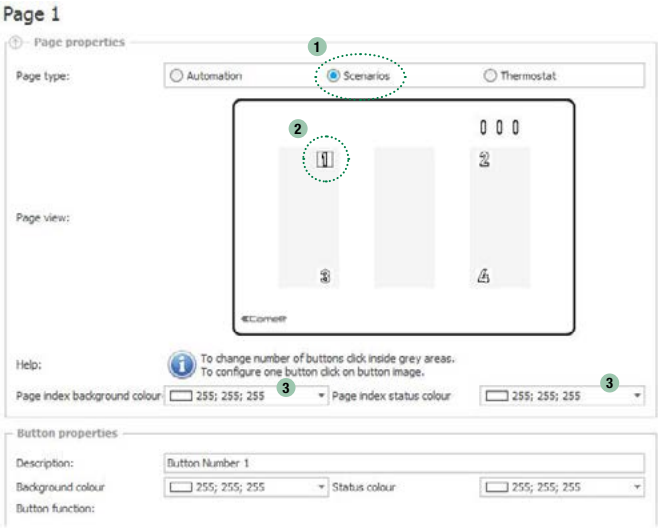
TARGET TYPE	MODULE	the module function is used to control one or more outputs of a module. When this option is selected, you must enter the number of the module and output(s) you wish to control.
	GROUP	the function enables control of several outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc... To do this, the outputs must be assigned to the same group on the output settings screen. For example, if you want to control all the lights, one group (for example GROUP 5) must be assigned to all the outputs connected to the lights, and then an input set as "GROUP" in the message addressee field, entering the number GROUP 5.
	SYSTEM MANAGER	the system manager function sends a command directly to the system managers, for example Planux Manager, Serial Bridge, Minitouch. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. You must set the number of the system manager input to send. For example, if you want to use a button to activate a scenario stored in the memory of a Planux Manager or Minitouch system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the serial bridge.
	DIMMER	this function is used to control a dimmer module. Press the button once to activate / deactivate the light connected to the module. Press and hold the button for 1 second; the intensity wheel used to adjust the light intensity will appear. When this option is selected, you must enter the number of the module and output(s) you wish to control.
	RGB	this function is used to control an RGB light managed by a DALI-DMX module 20004600. Press the button once to activate / deactivate the light connected to the module output. Press and hold the button for 10 seconds; the colour wheel used to adjust the colour of the RGB lights will appear. Press the arrows to adjust the light intensity. When this option is selected, you must enter the number of the module and output(s) you wish to control.

COMMAND TYPE	NORMAL	the module sends a command to the addressee, switching the output for which it was programmed. For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.
	SET	the module sends a “force ON” command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" or "Venetian blind". For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.
	RESET	the module sends a “force OFF” command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind", the relay is not activated and the blind to which it is connected will not move. For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.
	ACTIVATE ANALOGUE OUTPUT	the module sends the activation command to the set analogue output, bringing the output to the last value set temporarily. This is used, for example, to switch on dimmable lights connected to modules Art. 20046810 or Art. 20046851.
	DEACTIVATE ANALOGUE OUTPUT	the module sends the off command to the set analogue output. This is used, for example, to switch off dimmable lights connected to modules Art. 20046810 or Art. 20046851.

• SCENARIO MANAGEMENT

The scenario input can be used to send 16 different commands over the BUS. For example, it is useful if you want to switch off all the lights in the home, lower all the blinds, deactivate the controlled sockets, etc... In this case, several commands are required and sent over the BUS; the scenario input can be used for this purpose. When the button connected to the scenario input is pressed, the 16 commands are carried out consecutively; the time between one command and the next can be set (0.5 seconds by default).

1. Select SCENARIOS
2. Select one of the 4 scenarios available.
3. if necessary, change the PAGE INDEX BACKGROUND COLOUR and the PAGE INDEX STATUS COLOUR from the drop-down menu.



Button function - scenario summary

Summary of the 16 different configurable commands.

► Select the corresponding line to edit the command.

Button function - scenario step

STEP NAME	non-modifiable
DESCRIPTION	field in which you can enter a brief description of the step

TARGET TYPE	MODULE	the module function is used to control one or more outputs of a module. When this option is selected, you must enter the number of the module and output(s) you wish to control.
	GROUP	the function enables control of several outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc... To do this, the outputs must be assigned to the same group on the output settings screen. For example, if you want to control all the lights, one group (for example GROUP 5) must be assigned to all the outputs connected to the lights, and then an input set as "GROUP" in the message addressee field, entering the number GROUP 5.
	SYSTEM MANAGER	the system manager function sends a command directly to the system managers, for example Planux Manager, Serial Bridge, Minitouch. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. You must set the number of the system manager input to send. 8 objects corresponding to simulated inputs are available, one for each scenario that can be activated; this allows association with the Buttons function. For example, if you want to use a button to activate a scenario stored in the memory of a Planux Manager or Minitouch system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the serial bridge.

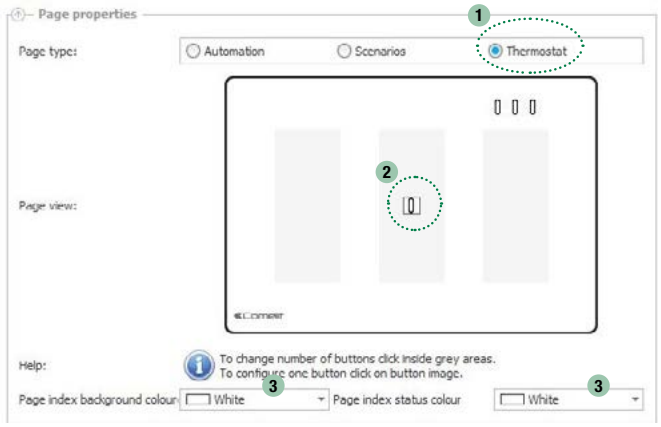
COMMAND TYPE	NORMAL	the module sends a command to the addressee, switching the output for which it was programmed. For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.
	SET	the module sends a “force ON” command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" or "Venetian blind". For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.
	RESET	the module sends a “force OFF” command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind" or "Venetian blind", the relay is not activated and the blind to which it is connected will not move. For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.
	ACTIVATE ANALOGUE OUTPUT	the module sends the activation command to the set analogue output, bringing the output to the last value set temporarily. This is used, for example, to switch on dimmable lights connected to modules Art. 20046810 or Art. 20046851.
	DEACTIVATE ANALOGUE OUTPUT	the module sends the off command to the set analogue output. This is used, for example, to switch off dimmable lights connected to modules Art. 20046810 or Art. 20046851.
	SET ANALOGUE VALUE	can be used to bring the brightness or analogue output to the set value which appears alongside it
	SET RGB COLOUR	this command is used to set the desired colour of an RGB light, using the field which appears alongside it

• CLIMATE MANAGEMENT

The thermostat management screen can be used to control the temperature sensor on board

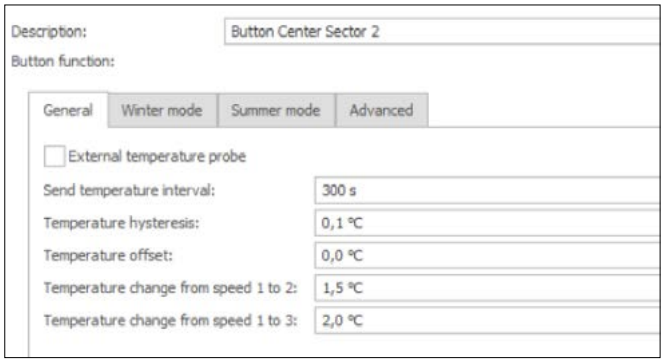
the ONE module or an external sensor, for temperature adjustment up to +3° / -3°C in steps of 0.5°C in relation to the last set point selected, using the thermostat adjustment screen.

1. Select THERMOSTAT
2. Select the centre button
3. if necessary, change the PAGE INDEX BACKGROUND COLOUR and the PAGE INDEX STATUS COLOUR from the drop-down menu.



Button properties

DESCRIPTION	Field used to enter a short description of the function or the module managed by the button/arrow



General

EXTERNAL TEMPERATURE PROBE	select this field to use an external probe, indicating the MODULE and INPUT of the probe.
SEND TEMPERATURE INTERVAL	Indicates the time interval in seconds between each transmission of the temperature reading over the bus. Sending these temperature readings serves to update the system managers.
TEMPERATURE HYSTERESIS	indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in winter day mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In summer mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
TEMPERATURE OFFSET	if the temperature reading taken in the room by another instrument is slightly different to that displayed by the thermostat due to the installation position of the latter, a correction coefficient, measured in tenths of a degree (this can also be negative), can be applied and added to the actual temperature reading. This is set by default to 0.
TEMPERATURE CHANGE FROM SPEED 1 TO 2 and from 1 TO 3	these values indicate the temperature difference, in relation to the setpoint, required for activation of speed 2 or speed 3 in fan coil mode

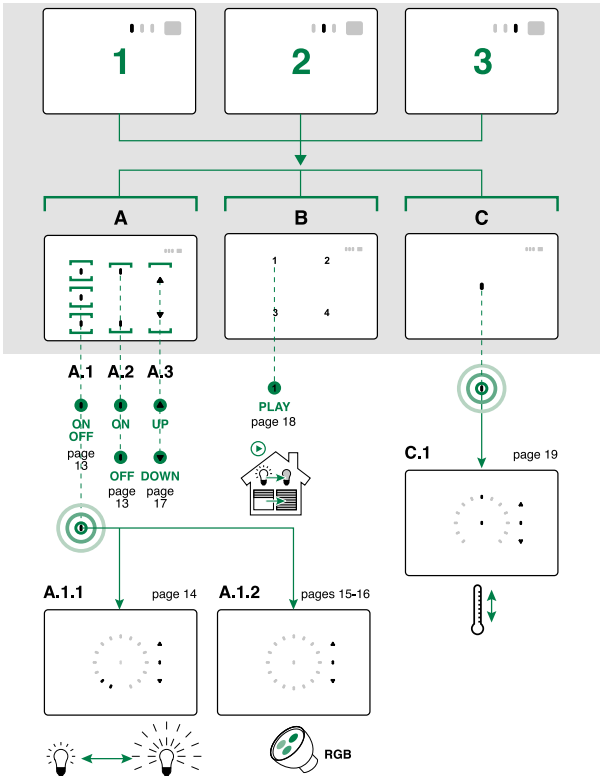
Winter mode / Summer mode

ADDRESS	enter the module used for activation of the heating or cooling system in the selected mode
OUTPUT	enter the output used for activation of the heating or cooling system in the selected mode
FAN COIL SPEED CONTROL	DIGITAL: set this option if you want to control a multi-speed convector heater which is connected to a module over the BUS. It is possible to reserve outputs 1 to 4 or 5 to 8. For example, if you select "Remote valve" and set the module number to 2, output 1 on module 2 will be used to enable and activate the temperature control machine, while outputs 2, 3 and 4 on module 2 will be used to control the 3 speed levels. Output 2 for speed level 1, output 3 for speed level 2 and output 4 for speed level 3.

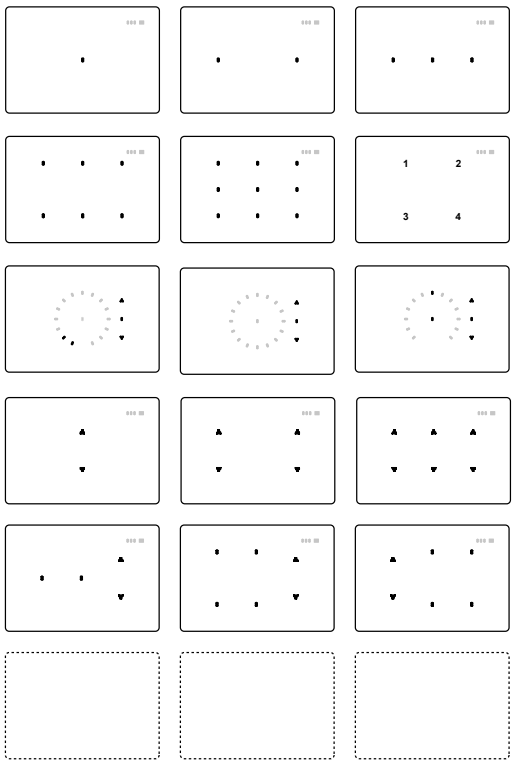
Advanced

WINTER-SUMMER SIGNALLING MODULE	This option can be used to configure an output to obtain an indication of summer mode.
DAY / NIGHT / OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
TEMPERATURE CHANGE FROM SPEED 1 TO 2 and from 1 TO 3	these values indicate the temperature difference, in relation to the setpoint, required for activation of speed 2 or speed 3 in fan coil mode

CONFIGURATION INFOGRAPHIC

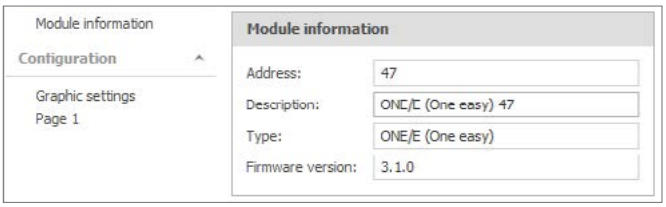


EXAMPLE SCREEN CONFIGURATIONS



ONE EASY - ONE/E

MODULE INFORMATION

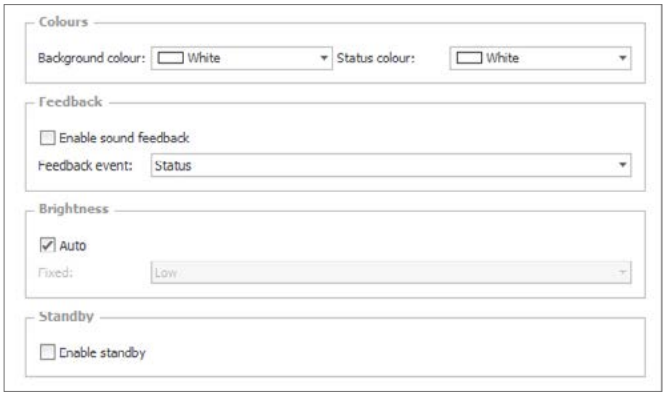


ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. ⚠ To assign an address to the module, use the DIP-switches.
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: Mod5 503 ground floor bathroom input
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ The availability of certain functions depends on the firmware version!

ADVANCED	MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.
	GROUP COMMAND RETRANSMISSION	this tick enables retransmission of a group command. Retransmission sends the group command 3 times. The group command has no status response, as it is not possible to indicate the status of several outputs. We recommend that this tick is always enabled if group commands are used across the system.

CONFIGURATION

Graphic settings



COLOURS	this menu can be used to set all module buttons to the same colour in a single action. This function takes priority over the settings performed manually on each individual LED. Select the colours of the LEDs for IDLE and ACTIVATED statuses.
FEEDBACK	ENABLE SOUND FEEDBACK is used to activate sound feedback, choosing between STATUS (tone emitted on change of status) and PRESS (tone emitted when pressed).
BRIGHTNESS	AUTO: when this function is activated, the brightness of the keys will be adjusted automatically according to the ambient light conditions detected by the on-board sensor. FIXED: select the brightness, choosing between LOW / MEDIUM / HIGH
STANDBY	if the Standby function is activated, the ONE control device will switch off key lighting after 5 seconds of inactivity, in order to save energy.

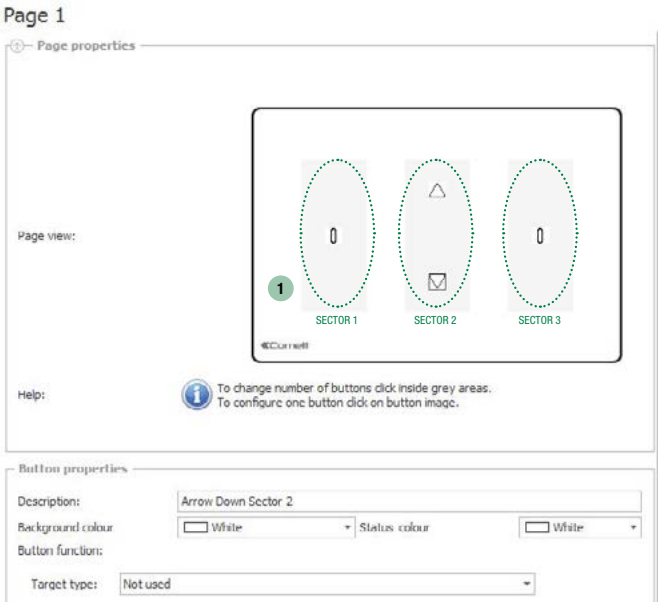
⚠ The ONE EASY control device has 1 page available that can be programmed for the function:

• AUTOMATION MANAGEMENT

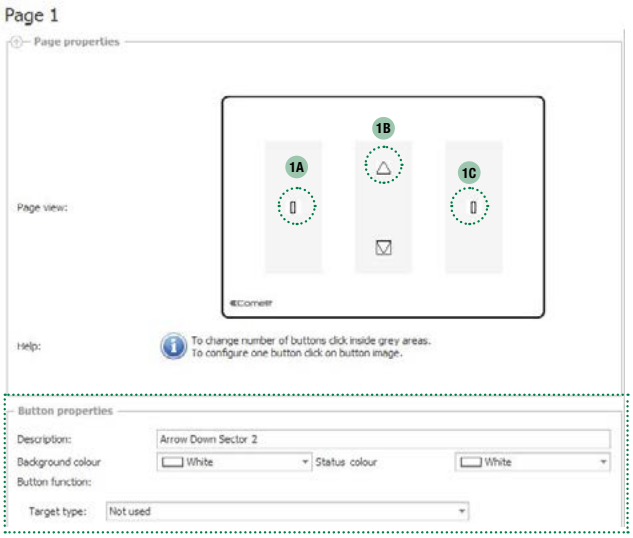
• AUTOMATION MANAGEMENT

Page properties

1. Select the desired number of buttons: sectors 1, 2 and 3 can be configured with 1 button each; sector 2 can also be configured with arrow keys



1. Select the SINGLE BUTTON you wish to configure. [1A - 1B - 1C]
2. Enter the parameters in the "Button properties" window to configure the button function.



Button properties

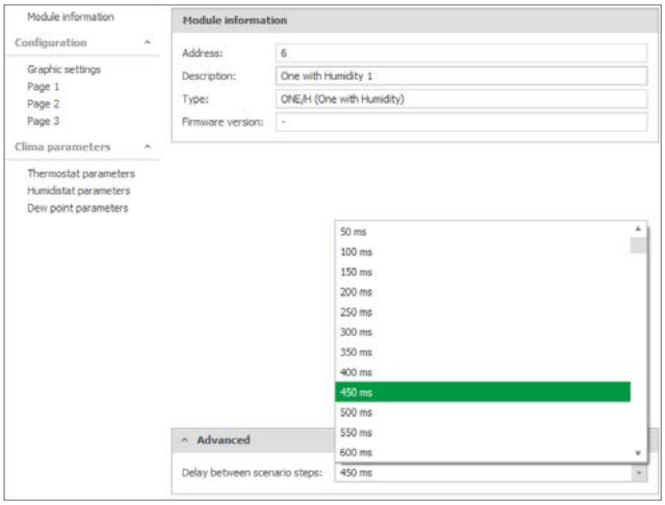
NAME	name of selected button - NON-MODIFIABLE - software-managed
DESCRIPTION	field used to enter a short description of the function or the module managed by the button/arrow
BACKGROUND COLOUR	colour of the button when idle - select the desired colour
STATUS COLOUR	colour of the button when activated - select the desired colour

TARGET TYPE	MODULE	the module function is used to control one or more outputs of a module. When this option is selected, you must enter the number of the module and output(s) you wish to control.
	GROUP	the function enables control of several outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc... To do this, the outputs must be assigned to the same group on the output settings screen. For example, if you want to control all the lights, one group (for example GROUP 5) must be assigned to all the outputs connected to the lights, and then an input set as "GROUP" in the message addressee field, entering the number GROUP 5.
	SYSTEM MANAGER	the system manager function sends a command directly to the system managers, for example Planux Manager, Serial Bridge, Minitouch. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. You must set the number of the system manager input to send. For example, if you want to use a button to activate a scenario stored in the memory of a Planux Manager or Minitouch system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the serial bridge.

COMMAND TYPE	NORMAL	the module sends a command to the addressee, switching the output for which it was programmed. For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.
	SET	the module sends a “force ON” command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" or "Venetian blind". For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.
	RESET	the module sends a “force OFF” command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind" or "Venetian blind", the relay is not activated and the blind to which it is connected will not move. For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.
	ACTIVATE ANALOGUE OUTPUT	the module sends the activation command to the set analogue output, bringing the output to the last value set temporarily. This is used, for example, to switch on dimmable lights connected to modules Art. 20046810 or Art. 20046851.
	DEACTIVATE ANALOGUE OUTPUT	the module sends the off command to the set analogue output. This is used, for example, to switch off dimmable lights connected to modules Art. 20046810 or Art. 20046851.

ONE/H

MODULE INFORMATION

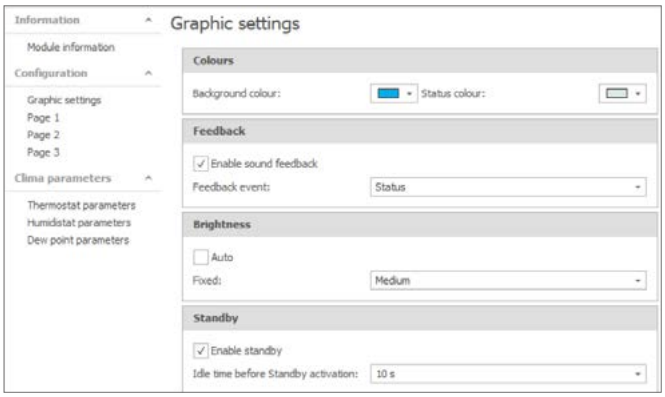


ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. ⚠ To assign an address to the module, use the DIP-switches.
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: Mod5 503 ground floor bathroom input
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ The availability of certain functions depends on the firmware version!

ADVANCED	DELAY BETWEEN SCENARIO STEPS	this parameter can be used to set a delay time for the execution of the 8 commands relating to the scenario input. This time only adjusts the time it takes to execute the commands carried out by the scenario input. *For example: command 1 = blind; command 2 = light off; delay = 3000ms (3 sec.)* *On pressing the button, the blind is lowered immediately and 3 seconds later the light is switched off.*

CONFIGURATION

Graphic settings



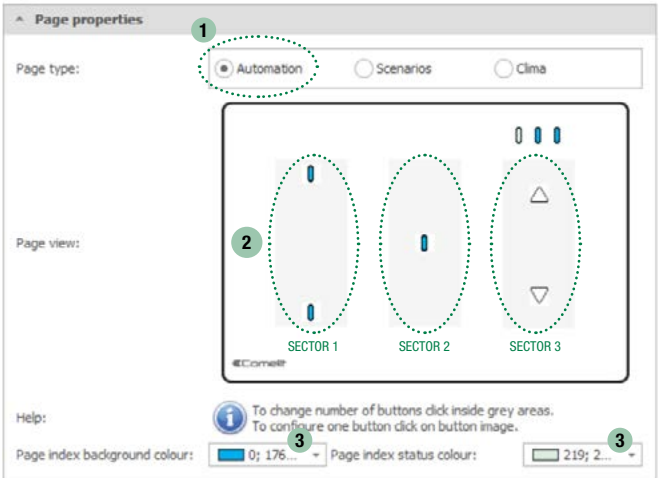
COLOURS	select a colour for the background LEDs and a colour for the status LEDs. Caution! This function overwrites previous settings made manually for each individual LED.
FEEDBACK	ENABLE SOUND FEEDBACK is used to activate sound feedback, choosing between STATUS (tone emitted on change of status) and PRESS (tone emitted when pressed).
BRIGHTNESS	AUTO: when this function is activated, the brightness of the keys will be adjusted automatically according to the ambient light conditions detected by the on-board sensor. FIXED: select the brightness, choosing between LOW / MEDIUM / HIGH
STANDBY	when the function is enabled, the ONE/H entrance panel will switch off the LEDs after the time period selected in the drop-down menu “Idle time before Standby activation”.
RETURN TO PAGE 1	when the function is enabled, the ONE/H entrance panel will return to Page 1 after the time period selected in the drop-down menu “Idle time before return to Page 1”.

The ONE/H control device has 3 screens that can be programmed with 3 different functions:
- **AUTOMATION MANAGEMENT**
- **SCENARIO MANAGEMENT** (max. 1 screen per device)
- **THERMOSTAT MANAGEMENT** (max. 1 screen per device)

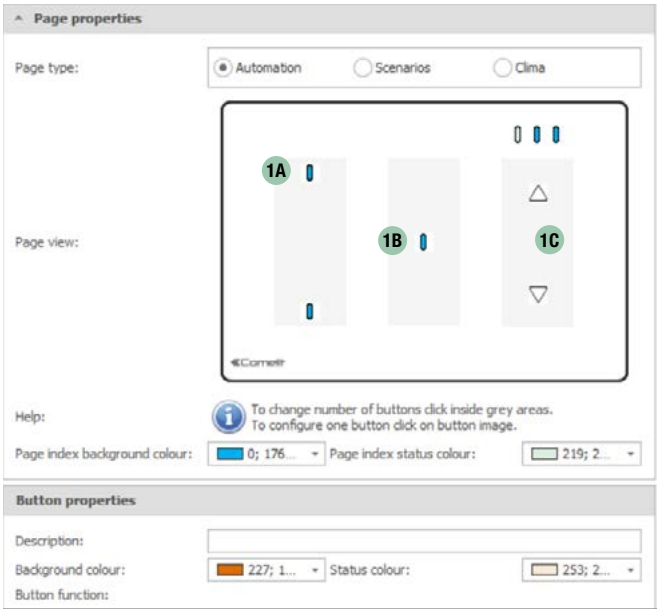
• AUTOMATION MANAGEMENT

Page properties

1. Select AUTOMATED DEVICE
2. Select the desired NUMBER of BUTTONS (1 -2 -3 - arrows) for each SECTOR by clicking on the grey area (at each click the type of button will change for that sector)
3. if necessary, change the PAGE INDEX BACKGROUND COLOUR and the PAGE INDEX STATUS COLOUR from the drop-down menu.



- ▶ Select the SINGLE BUTTON you wish to configure. [1A - 1B - 1C]
- ▶ Enter the parameters in the "Button properties" window to configure the button function.



DESCRIPTION	Field used to enter a short description of the function or the module managed by the button/arrow
BACKGROUND COLOUR	Select a colour to identify the outputs inactive status for the controlled module
STATUS COLOUR	Select a colour to identify the outputs active status for the controlled module

TARGET TYPE	MODULE	the module function is used to control one or more outputs of a module. When this option is selected, you must set the command type, enter the number of the module and output(s) you wish to control.
	GROUP	the function enables control of several outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc. To do this, the outputs must be assigned to the same group on the output settings screen. When this option is selected, you must set the command type and enter the group you wish to control. For example, if you want to control all the lights, one group (for example GROUP 5) must be assigned to all the outputs connected to the lights, and then an input set as "GROUP" in the message addressee field, entering the number GROUP 5.
	SYSTEM MANAGER	the system manager function sends a command directly to the system managers, for example Maxi Manager, Serial Bridge, Icona Manager. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. You must set the number of the system manager input to send. For example, if you want to use a button to activate a scenario stored in the memory of a Maxi Manager or Icona Manager system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the Serial Bridge.
	DIMMER	this function is used to control a dimmer module. Press the button once to activate / deactivate the light connected to the module. Press and hold the button for 1 second; the intensity wheel used to adjust the light intensity will appear. When this option is selected, you must enter the number of the module and output(s) you wish to control.
	RGB	this function is used to control an RGB light managed by a DALI-DMX module 20004600. Press the button once to activate / deactivate the light connected to the module output. Press and hold the button for 10 seconds; the colour wheel used to adjust the colour of the RGB lights will appear. Press the arrows to adjust the light intensity. When this option is selected, you must enter the number of the module and output(s) you wish to control.

COMMAND TYPE	NORMAL	the module sends a command to the addressee, switching the output for which it was programmed. For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.
	SET	the module sends a “force ON” command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" or "Venetian blind". For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.
	CYCLIC SET/ RESET	the cyclic SET/RESET function allows you to send alternate SET and RESET commands from the same button. For example, if you configure a button to control 3 outputs of a digital module and you configure the input as cyclic SET/RESET, the first time the button is pressed it will send the SET command to activate the 3 outputs and the next time it will send the RESET command to deactivate the 3 outputs. This function is particularly useful when you have various outputs controlled individually from different points that you wish to bring into alignment control from a single point.
	RESET	the module sends a “force OFF” command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind", the relay is not activated and the blind to which it is connected will not move. For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.
	ACTIVATE ANALOGUE OUTPUT	the module sends the activation command to the set analogue output, bringing the output to the last value set temporarily. This is used, for example, to switch on dimmable lights connected to modules Art. 20046810 or Art. 20046851.
	DEACTIVATE ANALOGUE OUTPUT	the module sends the off command to the set analogue output. This is used, for example, to switch off dimmable lights connected to modules Art. 20046810 or Art. 20046851.

• SCENARIO MANAGEMENT

The scenario input can be used to send 16 different commands over the BUS. For example, it is useful if you want to switch off all the lights in the home, lower all the blinds, deactivate the controlled sockets, etc... In this case, several commands are required and sent over the BUS; the scenario input can be used for this purpose. When the button connected to the scenario input is pressed, the 16 commands are carried out consecutively; the time between one command and the next can be set (0.5 seconds by default).

- ▶ Select SCENARIOS
- ▶ Select one of the 4 scenarios available.
- ▶ if necessary, change the PAGE INDEX BACKGROUND COLOUR and the PAGE INDEX STATUS COLOUR from the drop-down menu.

Button function - scenario summary

Summary of the 16 different configurable commands.

- ▶ Select the corresponding line to edit the command.

Button function - scenario step

STEP NAME	non-modifiable
DESCRIPTION	field in which you can enter a brief description of the step

TARGET TYPE	MODULE	the function is used to control one or more outputs of a module. When this option is selected, you must set the command type, enter the number of the module and output(s) you wish to control.
	GROUP	the function enables control of several outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc. To do this, the outputs must be assigned to the same group on the output settings screen. When this option is selected, you must set the command type and enter the group you wish to control. For example, if you want to control all the lights, one group (for example GROUP 5) must be assigned to all the outputs connected to the lights, and then an input set as "GROUP" in the message addressee field, entering the number GROUP 5.
	SYSTEM MANAGER	the system manager function sends a command directly to the system managers, for example Maxi Manager, Serial Bridge, Icona Manager. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. You must set the number of the system manager input to send. For example, if you want to use a button to activate a scenario stored in the memory of a Maxi Manager or Icona Manager system manager, you must set the input in this way. This also applies if you want to use an input status for a logic or link function on the Serial Bridge.

COMMAND TYPE	NORMAL	the module sends a command to the addressee, switching the output for which it was programmed. For example, if you send a normal command to a timed output, the output will be activated for the set time; if you send a normal command to an output set as bistable, the output inverts its status.
	SET	the module sends a “force ON” command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" or "Venetian blind". For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received.
	RESET	the module sends a “force OFF” command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. If the RESET command is sent to an output programmed as "Blind" or "Venetian blind", the relay is not activated and the blind to which it is connected will not move. For example, to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive.
	ACTIVATE ANALOGUE OUTPUT	the module sends the activation command to the set analogue output, bringing the output to the last value set temporarily. This is used, for example, to switch on dimmable lights connected to modules Art. 20046810 or Art. 20046851.
	DEACTIVATE ANALOGUE OUTPUT	the module sends the off command to the set analogue output. This is used, for example, to switch off dimmable lights connected to modules Art. 20046810 or Art. 20046851.
	SET ANALOGUE VALUE	can be used to bring the brightness or analogue output to the set value which appears alongside it
	SET RGB COLOUR	this command is used to set the desired colour of an RGB light, using the field which appears alongside it

• CLIMATE MANAGEMENT

The CLIMATE management screen can be used to control the temperature/humidity sensor on board the ONE/H module or an external sensor, for temperature adjustment up to +3° / -3°C in steps of 0.5°C in relation to the last set point selected.

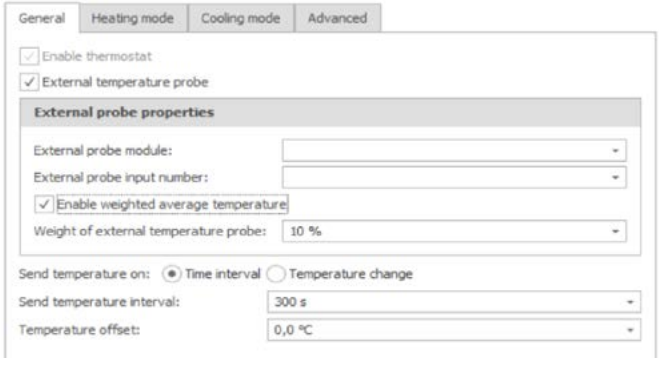
- Select CLIMATE
- Select the centre button
- if necessary, change the PAGE INDEX BACKGROUND COLOUR and the PAGE INDEX STATUS COLOUR from the drop-down menu.

Button properties

DESCRIPTION	Field used to enter a short description of the function or the module managed by the button/arrow

CLIMATE PARAMETERS

Thermostat parameters



General

ENABLE THERMOSTAT	tick the box to enable.
SEND TEMPERATURE ON:	select the method for transmission of the temperature reading over the bus. sending these temperature readings serves to update the system managers. TIME INTERVAL: the temperature reading will be sent to the system manager at time intervals set in the "Send temperature interval" field. TEMPERATURE CHANGE: the temperature reading will be sent to the system manager when there are changes in the room temperature reading equal to or greater than those set in the “Send temperature change” field.
TEMPERATURE OFFSET	you can specify a correction factor, in tenths of a degree (this can also be a negative value), to be added to the actual temperature reading. This is set by default to 0.

Heating mode / Cooling mode

DAY THRESHOLD	set the desired temperature threshold
TEMPERATURE HYSTERESIS	Thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in day heating mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In cooling mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
ADDRESS	Enter the corresponding address used for activation of the temperature control system in the selected mode
OUTPUT	Enter the corresponding output used for activation of the heating or cooling system in the selected mode
FAN COIL SPEED CONTROL	DIGITAL: set this option if you want to control a multi-speed convector heater with ON/OFF inputs for speed adjustment and this heater is connected to a module over the BUS. In this case up to 3 outputs on the installed module will be reserved for this function. Set the number of the module and the number of the outputs (associated to speed levels) you wish to use. 3-STEP ANALOGUE: this parameter can be used to set the climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in the Fan coil control menu, and which are selected on the basis of the difference between the temperature setting for the climate zone and the actual temperature reading for the room. The temperature differences that trigger changes in speed can be set in the Fan coil control menu. CONTINUOUS ANALOGUE: this parameter can be used to set the climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control varies depending on the difference between the temperature setting for the climate zone and the actual temperature measured in the room. The greater the difference, the greater the output voltage (0-10V). The temperature difference that triggers maximum speed can be set in the Fan coil control menu using the Max Delta speed parameter.

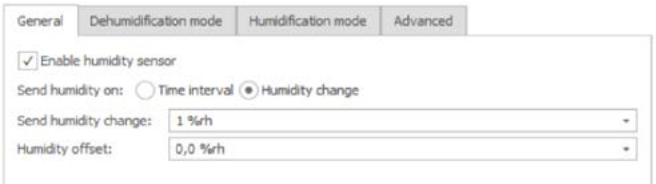
ADVANCED	FROST / HIGH TEMPERATURE PROTECTION THRESHOLD	the function protects the system in the event of extreme temperatures. if the temperature exceeds the set value, the system (even when set to OFF) will come on automatically to restore suitable conditions as dictated by temperature hysteresis.
	DAY GROUP OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
HEATING BLOCK	ENABLE BLOCK FROM PT100 TEMPERATURE	If this option is enables the system will stop heating as soon as the temperature read by the PT100 reaches the set threshold.

Advanced

HEATING / COOLING SIGNALLING	This option can be used to configure an output to obtain an indication of heating or cooling mode. Output active = cooling mode, output inactive = heating mode.
DAY GROUP OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

Humidistat parameters

General



ENABLE HUMIDITY SENSOR	Enables the humidity sensor function.

SEND HUMIDITY ON	Indicates the method for transmission of the humidity reading over the bus. Sending these humidity readings serves to update the system managers. **TIME INTERVAL**: the humidity reading will be sent to the system manager at time intervals set in the "Send humidity interval" field. **HUMIDITY CHANGE**: the humidity reading will be sent to the system manager when there are changes equal to or greater than those set in the "Send humidity change" field.
HUMIDITY OFFSET	You can specify a correction factor to be added to the actual humidity reading. This is set by default to 0.

Dehumidification mode / Humidification mode

DAY THRESHOLD	set the desired humidity threshold
HUMIDITY HYSTERESIS	humidity hysteresis allows control of the humidification/dehumidification system without continuous activation or deactivation of the machine. For example, if you set a hysteresis of 5% and a humidity value of 60% for dehumidification, the dehumidifier will stop when the humidity reaches 55% (60% set value - 5% hysteresis) and restart when the value rises to 61%.
ADDRESS	enter the corresponding address used for activation of the humidity control system in the selected mode
OUTPUT	enter the corresponding output used for activation of the humidity control system in the selected mode
FAN COIL SPEED CONTROL*	DIGITAL: set this option if you want to control a humidifier/dehumidifier with ON/OFF inputs for speed adjustment and this device is connected to a module over the BUS. In this case up to 3 outputs on the installed module will be reserved for this function. Set the number of the module and the number of the outputs (associated to speed levels) you wish to use. ANALOGUE: this parameter can be used to set the climate zone to control a multi-speed humidifier/dehumidifier unit with a 0-10V analogue input. This means the climate zone will send a speed control command to the analogue 0-10V output connected to the humidification/dehumidification unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in the advanced parameters menu, and which are selected on the basis of the difference between the humidity setting for the climate zone and the actual humidity measured in the room. The greater the difference, the greater the output voltage (0-10V). The differences in humidity that trigger changes in speed can be set in the advanced settings.

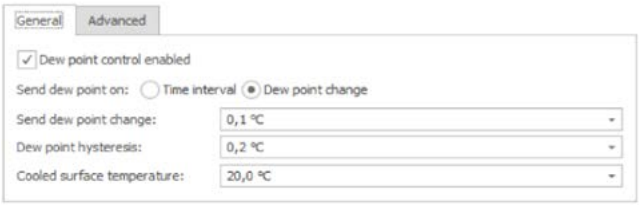
ADVANCED	DAY GROUP OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means the same setpoint can be set on all thermostats or Minitouch units in the system, for example by closing a digital input. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

Advanced

HUMIDIFICATION/ DEHUMIDIFICATION SIGNALLING	This option can be used to configure an output to obtain an indication of humidification or dehumidification mode. Output active = dehumidification mode, output inactive = humidification mode.
DAY GROUP OFF GROUP	A group number can be assigned to one of the 2 day or off setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

Dew point parameters

General

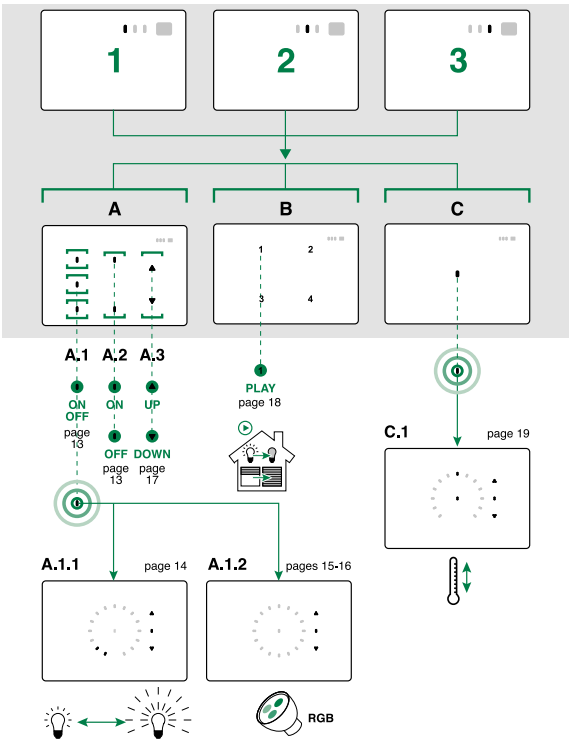


DEW POINT CONTROL ENABLED	tick the box to enable.
SEND DEW POINT ON	select the method for transmission of the temperature reading over the bus. these transmissions update the system managers as to the status (e.g. humidity readings). We recommend leaving this parameter set to the default value (5 minutes). TIME INTERVAL: the temperature reading will be sent at time intervals set in the "Send dew point interval" field. DEW POINT CHANGE: the temperature reading will be sent when there are changes equal to or greater than those set in the "Send dew point change" field.
DEW POINT HYSTERESIS	the dew point hysteresis allows control of cooling system activation/deactivation without continuous activation or deactivation of the machine. For example, with a hysteresis of 0.4°, if a dew point offset of 20°C is set, the function will activate at 20°C and deactivate at 19.6°C.
USE PT 100 TEMP. TO CALCULATE DEW POINT	means the temperature reading from the PT100 sensor can be used to calculate the dew point.
COOLED SURFACE TEMPERATURE	if the PT100 sensor is not being used to calculate the dew point, the temperature reached by the cooling surface (floor) when the system is running can be set.

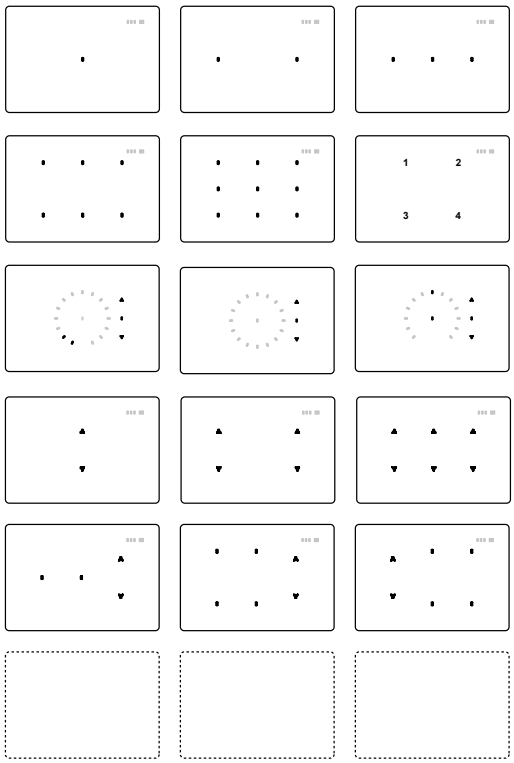
Advanced

ENABLE / DISABLE GROUP	you can assign an ENABLE GROUP and a DISABLE GROUP to the DEWPOINT function to activate or deactivate the function itself. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
DEW POINT OVERCOMING SIGNALLING	a MODULE and an OUTPUT paired with the dew point function can be selected to show when the calculated limit has been exceeded. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

CONFIGURATION INFOGRAPHIC



EXAMPLE SCREEN CONFIGURATIONS

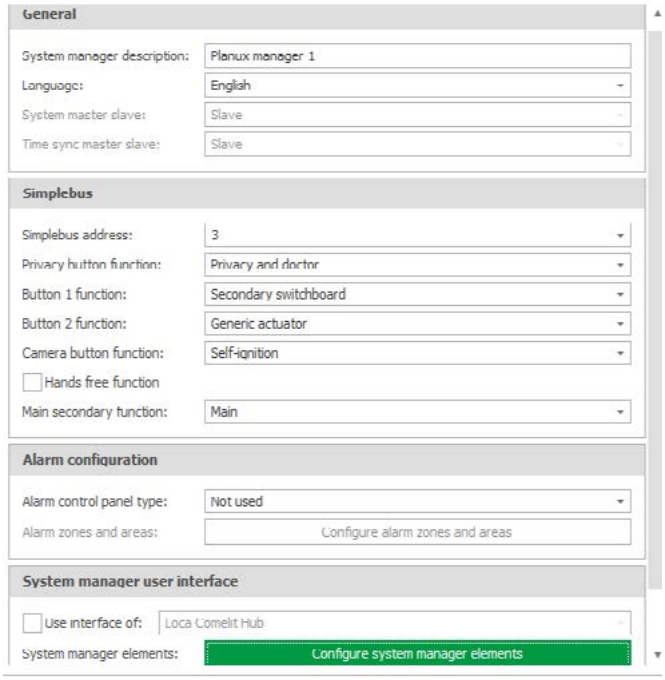


5. SYSTEM MANAGER PROGRAMMING

The programmable settings and operation types relating to Comelit home automation system managers are summarised below.

PLANUX MANAGER 20034801

MODULE INFORMATION



General

SYSTEM MANAGER DESCRIPTION	enter a short description of the system manager to easily identify it within the project.
LANGUAGE	Select the language for the system manager interface
SYSTEM MASTER / SLAVE	The master device transmits the home automation configuration to the slave devices. By default, the first system manager to be added to the system will be the master. Only one of the system managers in the system may be set as the master, and all the remaining system managers must be set as slaves. The device will automatically be a slave if there is a Comelit Hub 20003150 in the system.
TIME SYNC MASTER / SLAVE	The master device transmits the date and time to the slave devices. By default, the system manager added to the system is a time sync slave. If there is a Comelit Hub 20003150 in the system, it will be the master device. Only one of the system managers in the system may be set as the master, and all the remaining system managers must be set as slaves. TIME SYNC master and SYSTEM master may be 2 different system managers. If there is no Comelit Hub 20003150 in the system we recommend setting Serial Bridge 20003101 as time sync master so that the date and time are updated automatically.

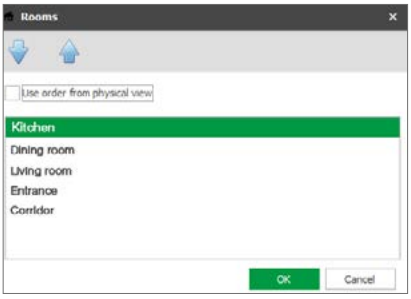
Simplebus

SIMPLEBUS ADDRESS	from the menu you can configure the Simplebus address of the system manager
PRIVACY BUTTON FUNCTION	from this menu you can select the function associated with the PRIVACY button of the manager, choosing between: PRIVACY / DOCTOR / PRIVACY + DOCTOR
BUTTON 1 FUNCTION BUTTON 2 FUNCTION	from this menu you can select the function associated with BUTTON 1 of the manager, choosing between: GENERIC ACTUATOR / MAIN SWITCHBOARD / GENERIC CAMERA / SECONDARY SWITCHBOARD / ALARM / HOUSEKEEPER
CAMERA BUTTON FUNCTION	from this menu you can select the function associated with the CAMERA button of the manager, choosing between: GENERIC ACTUATOR / MAIN SWITCHBOARD / SELF ACTIVATION / GENERIC CAMERA / SECONDARY SWITCHBOARD / ALARM / HOUSEKEEPER
HANDS FREE FUNCTION	the flag is used to activate the function. On receipt of a call the monitor will start communicating automatically.
MAIN SECONDARY FUNCTION	from this menu you can configure the function as: SECONDARY / MAIN / MULTI MAIN

Alarm configuration

ALARM CONTROL PANEL TYPE	select the type of alarm control panel installed in the system: S32 / S40 / S88 / S88F / S88R / S200 / VEDO10 / VEDO34 / VEDO68 / VEDO200
ALARM ZONES AND AREAS	⚠ For S series control panels, alarm zones and areas must be configured using the dedicated function: • add the areas • select the wired zones/wireless zones used • associate the zones and areas

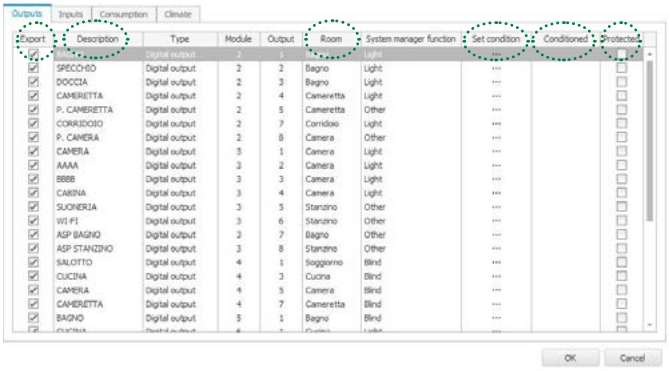
System manager user interface

USE INTERFACE OF	it is possible to select a system manager from which to import the user interface, or to deselect the flag and configure the system manager manually. This function can only be activated when there are at least 2 system managers in the system. by default, the system manager uses the interface for the first system manager (default master) entered in the system.
CONFIGURE SYSTEM MANAGER ELEMENTS *	from this menu you can select which system manager elements to view and manage via the system manager. OUTPUTS / INPUTS / CONSUMPTION / CLIMATE (Further information on page 39)
SORT ROOMS	the menu can be used to change the order in which rooms are displayed on the system manager. ► Remove the flag from Use order from physical view, select the desired room, move it up/down using the arrows, then confirm or cancel the procedure. The order cannot be changed directly if using the interface for another system manager. 

The parameters that can be changed in System manager elements are described below.

* Outputs

⚠ **Only the OUTPUTS ASSOCIATED WITH THE PHYSICAL VIEW are visible**



EXPORT	the selected OUTPUTS will be displayed on the system manager. Select them using flags.
DESCRIPTION	the element description can be customised. the new description will also be updated on the System manager.
ROOM	you can select the room (from those belonging to the direct hierarchy of the selected output) to which the output is to be linked.
SET OUTPUT OUTPUT	To use the Conditioned Output function, at least one input on one of the digital modules installed must be set as System manager. The conditioned output makes it possible to stop the timers set for that output on the system manager, according to the status of an input on a digital module set as system manager. Conditioning is activated by Icona Manager / Planux Manager / Minitouch.
CONDITIONED	the column shows the conditioning status of the outputs by means of a flag (PRESENT for CONDITIONED OUTPUTS)
PROTECTED	this function can be used to protect the selected outputs in that a PASSWORD will be required before their ACTIVATION or DEACTIVATION via System manager

* Inputs

EXPORT	the selected INPUTS will be displayed on the master home automation system manager or the system manager associated with the home automation master. Select, using the flags.
DESCRIPTION	the element description can be customised. the new description will also be updated on the System manager.
SYSTEM MANAGER FUNCTION	⚠ it is necessary to set SCENARIO mode in systems with PLANUX or MINITOUCH with master home automation firmware versions UNDER VERSION 2.0 In systems with ICONA or PLANUX or MINITOUCH with firmware VERSION 2.0 or HIGHER, set the value to INPUT
SCENARIO ACTIVATION	you can activate/deactivate the function by selecting ON/OFF from the drop-down menu
SCENARIO DESCRIPTION	you can enter a description of the selected scenario

* Consumption

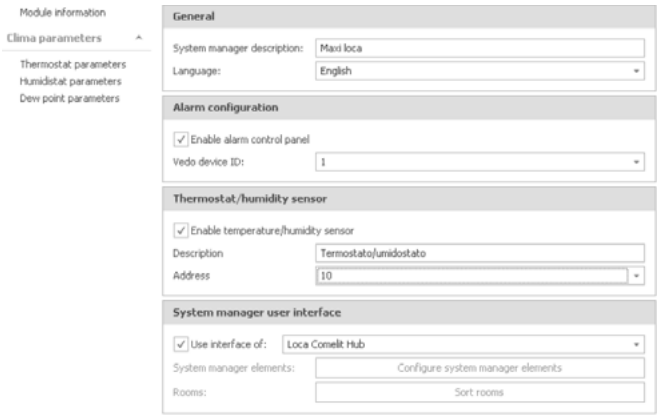
EXPORT	the selected CONSUMPTION values will be displayed on the master home automation system manager or the system manager associated with the home automation master. Select, using the flags.
DESCRIPTION	the element description can be customised. the new description will also be updated on the System manager.
GROUP	This function allows you to group together a number of counters of the same type (e.g. electricity consumption meters) in a single group so that they all be displayed graphically as a single counter. Pressing [Gruppi] gives access to the group manager panel from which you can create or delete groups.
VISIBLE	The VISIBLE attribute serves to make the selected consumption value visible on the System manager
COMPARE	The COMPARE attribute adds a graph for comparison of the two TA modules, one of which is set as PRODUCTION and one as CONSUMPTION to facilitate data matching.

* Climate

EXPORT	the selected CLIMATE ELEMENTS will be displayed on the system manager. Select, using the flags.
DESCRIPTION	the element description can be customised. the new description will also be updated on the System manager.

MAXI MANAGER WITH ANDROID 20003300W

MODULE INFORMATION



General

Maxi Manager with Android 20003300W as a home automation system manager works exclusively in conjunction with Comelit Hub; for this reason it behaves as a home automation slave and a time sync slave.

SYSTEM MANAGER DESCRIPTION	enter a short description of the system manager to easily identify it within the project.
LANGUAGE	select the language for the system manager interface.

Alarm configuration

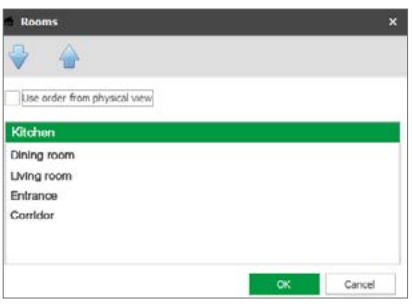
Communication with the Vedo alarm control panel requires suitable configuration using the Safe Manager software.
Compatible Vedo control panels: VEDO10 - VEDO34 - VEDO68 - VEDO200 version 2.10.X - VEDO IP version 2.7.X

ENABLE ALARM CONTROL PANEL	enable to allow communication with the alarm system
VEDO DEVICE ID	enter the device ID as set in Safe Manager

Thermostat/humidity sensor

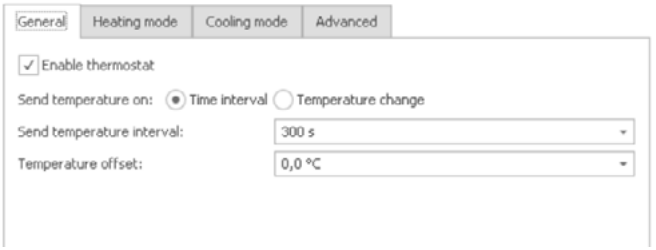
ENABLE TEMPERATURE/ HUMIDITY SENSOR	this function is used to enable/disable programming of the system manager's built-in temperature and humidity sensor
DESCRIPTION	you can enter a description of the sensor to facilitate its identification in the system manager
ADDRESS	assign an address on the bus to the sensor

System manager user interface

USE INTERFACE OF	it is possible to select a system manager from which to import the user interface, or to deselect the flag and configure the system manager manually. This function can only be activated when there are at least 2 system managers in the system. by default, the system manager uses the interface for the first system manager (default master) entered in the system.
CONFIGURE SYSTEM MANAGER ELEMENTS	the menu can be used to select which elements to view and manage via the Comelit app and via the system managers utilising the user interface for the module. OUTPUTS / INPUTS / CONSUMPTION / CLIMATE / SCENARIOS / RULES (Further information on page 47)
SORT ROOMS	the menu can be used to change the order in which rooms are displayed on the system manager. ► Remove the flag from Use order from physical view, select the desired room, move it up/down using the arrows, then confirm or cancel the procedure. The order cannot be changed directly if using the interface for another system manager. 

THERMOSTAT PARAMETERS

General



ENABLE THERMOSTAT	this option enables/disables management of the integrated temperature probe.
SEND TEMPERATURE ON:	select the method for transmission of the temperature reading over the BUS. Sending these temperature readings serves to update the system managers. **TIME INTERVAL** the temperature reading will be sent to the system manager at time intervals set in the "Send temperature interval" field. **TEMPERATURE CHANGE** the temperature reading will be sent to the system manager when there are changes in the room temperature reading equal to or greater than those set in the "Send temperature change" field
TEMPERATURE OFFSET	You can specify a correction factor, in tenths of a degree (this can also be a negative value), to be added to the actual temperature reading. This is set by default to 0.

Heating mode / Cooling mode

DAY THRESHOLD	Set the desired temperature threshold
TEMPERATURE HYSTERESIS	Indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in day heating mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In cooling mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
ADDRESS	Enter the address of the module to which the activation element for the temperature control system in the selected mode (Heating / Cooling) is connected
OUTPUT	Enter the output of the module to which the activation element for the temperature control system in the selected mode (Heating / Cooling) is connected

FAN COIL CONTROL	FAN COIL SPEED CONTROL*	**OFF:** Fan Coil speed control disabled **DIGITAL**: set this option if you want to control a multi-speed convector heater with ON/OFF inputs for speed adjustment and this heater is connected to a module over the BUS. In this case up to 3 outputs on the installed module will be reserved for this function. Set the address of the module and the relevant outputs (associated to speed levels) you wish to use. **ANALOGUE:** this parameter can be used to set the climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in parameters Speed 1 / Speed 2 / Speed 3, and which are selected on the basis of the difference between the temperature setting for the climate zone and the actual temperature reading for the room. The bigger the difference, the higher the value of the 0-10V output will rise. The temperature differences triggering the different speed levels can be set in parameters *Change from speed* 1 to 2 and *Change from speed* 1 to 3.

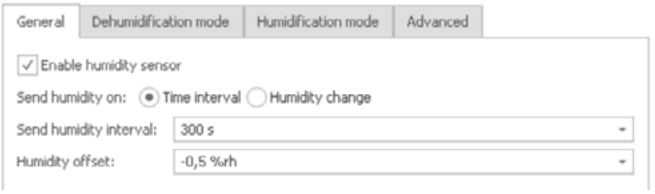
ADVANCED	FROST / HIGH TEMPERATURE PROTECTION THRESHOLD	the function protects the system in the event of extreme temperatures. if the temperature exceeds the set value, the system (even when set to OFF) will come on automatically to restore suitable conditions as dictated by temperature hysteresis.
	DAY, OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

Advanced

HEATING / COOLING SIGNALLING	This option can be used to configure an output to obtain an indication of heating or cooling mode. Output active = cooling mode, output inactive = heating mode.
DAY, OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

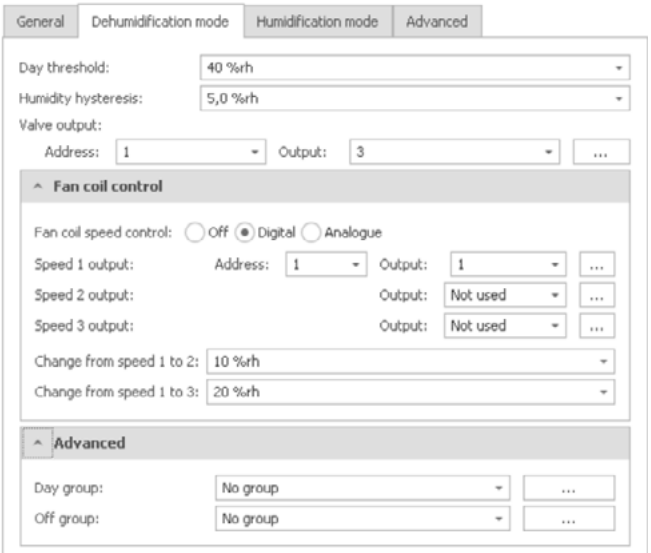
HUMIDISTAT PARAMETERS

General



ENABLE HUMIDITY SENSOR	this option enables/disables management of the integrated humidity probe.
SEND HUMIDITY ON	select the method for transmission of the humidity reading over the BUS. Sending these humidity readings serves to update the system managers. **TIME INTERVAL**: the humidity reading will be sent to the system manager at time intervals set in the "Send humidity interval" field. **HUMIDITY CHANGE**: the humidity reading will be sent to the system manager when there are changes equal to or greater than those set in the "Send humidity change" field.
HUMIDITY OFFSET	you can specify a correction factor to be added to the actual humidity reading. This is set by default to 0.

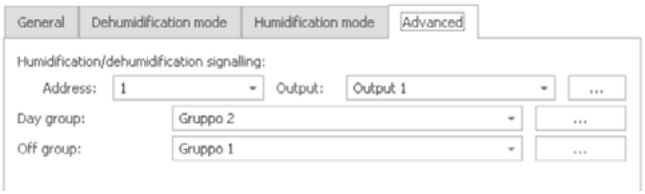
Dehumidification mode / Humidification mode



DAY THRESHOLD	set the desired humidity threshold

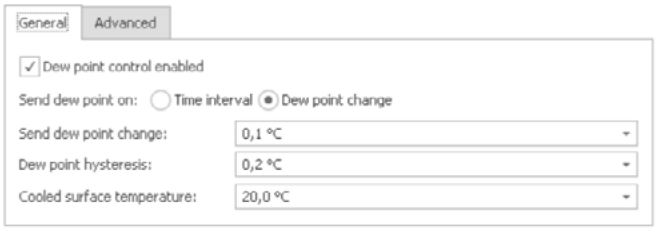
	HUMIDITY HYSTERESIS	humidity hysteresis allows control of the humidification/dehumidification system without continuous activation or deactivation of the machine. For example, if you set a hysteresis of 5% and a humidity value of 60% for dehumidification, the dehumidifier will stop when the humidity reaches 55% (60% set value - 5% hysteresis) and restart when the value rises to 61%.
	ADDRESS	enter the address of the module to which the activation element for the humidity control system in the selected mode (Dehumidification / Humidification) is connected
	OUTPUT	enter the output of the module to which the activation element for the humidity control system in the selected mode (Dehumidification / Humidification) is connected
FAN COIL CONTROL	FAN COIL SPEED CONTROL*	**OFF:** Fan Coil speed control disabled **DIGITAL**: set this option if you want to control a humidifier/dehumidifier with ON/OFF inputs for speed adjustment and this device is connected to a module over the BUS. In this case up to 3 outputs on the installed module will be reserved for this function. Set the address of the module and the relevant outputs (associated to speed levels) you wish to use. **ANALOGUE:** this parameter can be used to set the climate zone to control a multi-speed humidifier/dehumidifier unit with a 0-10V analogue input. This means the climate zone will send a speed control command to the analogue 0-10V output connected to the humidification/dehumidification unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in parameters Speed 1 / Speed 2 / Speed 3, and which are selected on the basis of the difference between the humidity setting for the climate zone and the actual humidity reading for the room. The greater the difference, the greater the output voltage (0-10V). The humidity differences triggering the different speed levels can be set in parameters*Change from speed* 1 to 2 and *Change from speed* 1 to 3.
ADVANCED	DAY, OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

Advanced



HUMIDIFICATION/ DEHUMIDIFICATION SIGNALLING	This option can be used to configure an output to obtain an indication of humidification or dehumidification mode. Output active = dehumidification mode, output inactive = humidification mode.
GROUP DAY MODE OFF MODE	A group number can be assigned to one of the 2 day or off setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

DEW POINT PARAMETERS



General

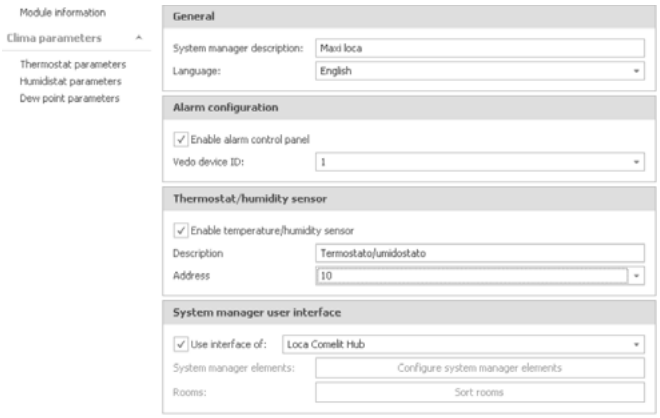
DEW POINT CONTROL ENABLED	this option is used to enable/disable dew point control.
SEND DEW POINT ON	Indicates the method for transmission of the temperature reading over the bus. These transmissions update the system managers as to the status (e.g. humidity readings). We recommend leaving this parameter set to the default value (5 minutes). **TIME INTERVAL**: the temperature reading will be sent at time intervals set in the "Send dew point interval" field. **DEW POINT CHANGE**: the temperature reading will be sent when there are changes equal to or greater than those set in the"Send dew point change" field.
DEW POINT HYSTERESIS	the dew point hysteresis allows control of cooling system activation/deactivation without continuous activation or deactivation of the machine. For example, with a hysteresis of 0.4°, if a dew point offset of 20°C is set, the function will activate at 20°C and deactivate at 19.6°C.
COOLED SURFACE TEMPERATURE	To calculate the dew point it's necessary to manually set the temperature reached by the cooling surface (floor) when the system is running can be set.

Advanced

ENABLE GROUP DISABLE GROUP	you can assign an ENABLE GROUP and a DISABLE GROUP to the DEWPOINT function to activate or deactivate the function itself. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
DEW POINT OVERCOMING SIGNALLING	a MODULE and an OUTPUT paired with the dew point function can be selected to show when the calculated limit has been exceeded. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

MAXI MANAGER 20003320W

MODULE INFORMATION



General

Maxi Manager 20003320W as a home automation system manager works exclusively in conjunction with Comelit Hub; for this reason it behaves as a home automation slave and a time sync slave.

SYSTEM MANAGER DESCRIPTION	enter a short description of the system manager to easily identify it within the project.
LANGUAGE	select the language for the system manager interface.

Alarm configuration

Communication with the Vedo alarm control panel requires suitable configuration using the Safe Manager software.
Compatible Vedo control panels: VED010 - VED034 - VED068 - VED0200 version 2.10.X - VEDO IP version 2.7.X

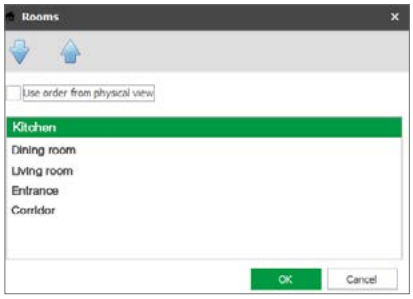
ENABLE ALARM CONTROL PANEL	enable to allow communication with the alarm system
VEDO DEVICE ID	enter the device ID as set in Safe Manager

Thermostat/humidity sensor

ENABLE TEMPERATURE/ HUMIDITY SENSOR	this function is used to enable/disable programming of the system manager's built-in temperature and humidity sensor
DESCRIPTION	you can enter a description of the sensor to facilitate its identification in the system manager
ADDRESS	assign an address on the bus to the sensor

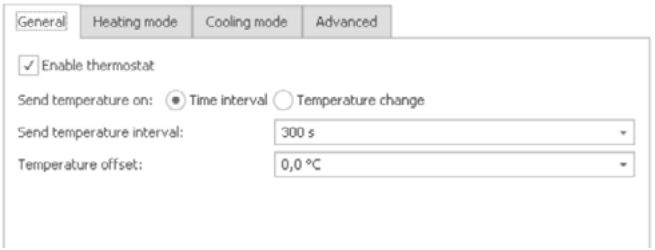
System manager user interface

USE INTERFACE OF	it is possible to select a system manager from which to import the user interface, or to deselect the flag and configure the system manager manually. This function can only be activated when there are at least 2 system managers in the system. by default, the system manager uses the interface for the first system manager (default master) entered in the system.
CONFIGURE SYSTEM MANAGER ELEMENTS	the menu can be used to select which elements to view and manage via the Comelit app and via the system managers utilising the user interface for the module. OUTPUTS / INPUTS / CONSUMPTION / CLIMATE / SCENARIOS / RULES (Further information on page 47)

SORT ROOMS	the menu can be used to change the order in which rooms are displayed on the system manager. ▶ Remove the flag from Use order from physical view, select the desired room, move it up/down using the arrows, then confirm or cancel the procedure. The order cannot be changed directly if using the interface for another system manager. 

THERMOSTAT PARAMETERS

General



ENABLE THERMOSTAT	this option enables/disables management of the integrated temperature probe.
SEND TEMPERATURE ON:	select the method for transmission of the temperature reading over the BUS. Sending these temperature readings serves to update the system managers. **TIME INTERVAL** the temperature reading will be sent to the system manager at time intervals set in the "Send temperature interval" field. **TEMPERATURE CHANGE** the temperature reading will be sent to the system manager when there are changes in the room temperature reading equal to or greater than those set in the "Send temperature change" field
TEMPERATURE OFFSET	You can specify a correction factor, in tenths of a degree (this can also be a negative value), to be added to the actual temperature reading. This is set by default to 0.

Heating mode / Cooling mode

DAY THRESHOLD	Set the desired temperature threshold
TEMPERATURE HYSTERESIS	Indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in day heating mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In cooling mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.

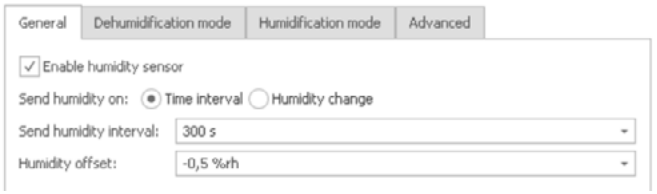
	ADDRESS	Enter the address of the module to which the activation element for the temperature control system in the selected mode (Heating / Cooling) is connected
	OUTPUT	Enter the output of the module to which the activation element for the temperature control system in the selected mode (Heating / Cooling) is connected
FAN COIL CONTROL	FAN COIL SPEED CONTROL*	**OFF:** Fan Coil speed control disabled **DIGITAL**: set this option if you want to control a multi-speed convector heater with ON/OFF inputs for speed adjustment and this heater is connected to a module over the BUS. In this case up to 3 outputs on the installed module will be reserved for this function. Set the address of the module and the relevant outputs (associated to speed levels) you wish to use. **ANALOGUE:** this parameter can be used to set the climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in parameters Speed 1 / Speed 2 / Speed 3, and which are selected on the basis of the difference between the temperature setting for the climate zone and the actual temperature reading for the room. The bigger the difference, the higher the value of the 0-10V output will rise. The temperature differences triggering the different speed levels can be set in parameters *Change from speed* 1 to 2 and *Change from speed* 1 to 3.
ADVANCED	FROST / HIGH TEMPERATURE PROTECTION THRESHOLD	the function protects the system in the event of extreme temperatures. if the temperature exceeds the set value, the system (even when set to OFF) will come on automatically to restore suitable conditions as dictated by temperature hysteresis.
	DAY, OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

Advanced

HEATING / COOLING SIGNALLING	This option can be used to configure an output to obtain an indication of heating or cooling mode. Output active = cooling mode, output inactive = heating mode.
DAY, OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all thermostats or Minitouch units in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.

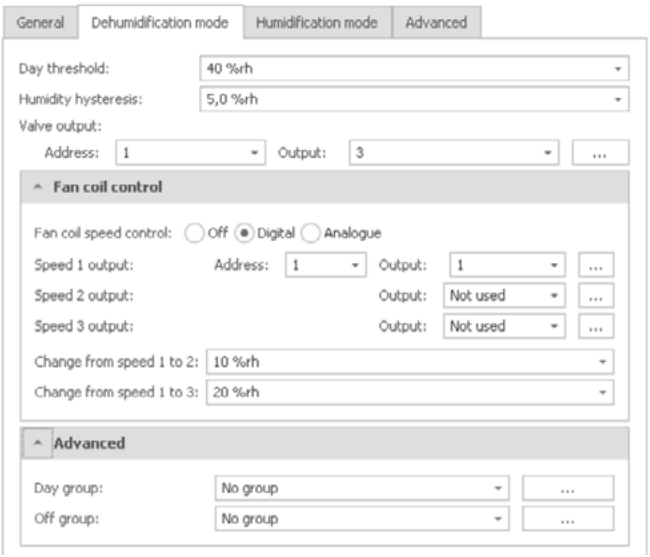
HUMIDISTAT PARAMETERS

General



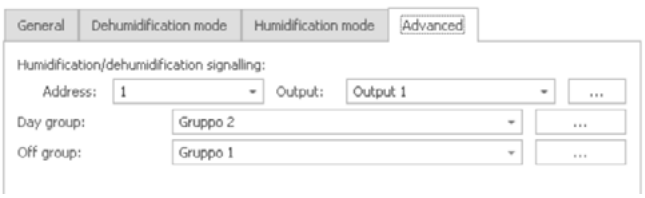
ENABLE HUMIDITY SENSOR	this option enables/disables management of the integrated humidity probe.
SEND HUMIDITY ON	select the method for transmission of the humidity reading over the BUS. Sending these humidity readings serves to update the system managers. **TIME INTERVAL**: the humidity reading will be sent to the system manager at time intervals set in the "Send humidity interval" field. **HUMIDITY CHANGE**: the humidity reading will be sent to the system manager when there are changes equal to or greater than those set in the "Send humidity change" field.
HUMIDITY OFFSET	you can specify a correction factor to be added to the actual humidity reading. This is set by default to 0.

Dehumidification mode / Humidification mode



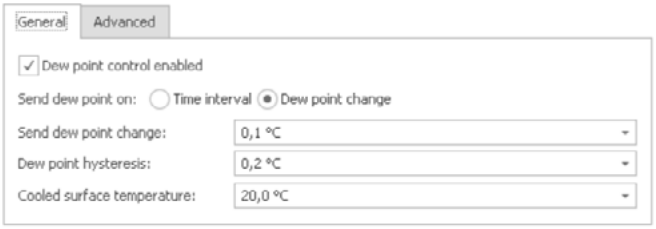
DAY THRESHOLD		set the desired humidity threshold
HUMIDITY HYSTERESIS		humidity hysteresis allows control of the humidification/dehumidification system without continuous activation or deactivation of the machine. For example, if you set a hysteresis of 5% and a humidity value of 60% for dehumidification, the dehumidifier will stop when the humidity reaches 55% (60% set value - 5% hysteresis) and restart when the value rises to 61%.
ADDRESS		enter the address of the module to which the activation element for the humidity control system in the selected mode (Dehumidification / Humidification) is connected
OUTPUT		enter the output of the module to which the activation element for the humidity control system in the selected mode (Dehumidification / Humidification) is connected
FAN COIL CONTROL	FAN COIL SPEED CONTROL*	**OFF:** Fan Coil speed control disabled **DIGITAL**: set this option if you want to control a humidifier/dehumidifier with ON/OFF inputs for speed adjustment and this device is connected to a module over the BUS. In this case up to 3 outputs on the installed module will be reserved for this function. Set the address of the module and the relevant outputs (associated to speed levels) you wish to use. **ANALOGUE:** this parameter can be used to set the climate zone to control a multi-speed humidifier/dehumidifier unit with a 0-10V analogue input. This means the climate zone will send a speed control command to the analogue 0-10V output connected to the humidification/dehumidification unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in parameters Speed 1 / Speed 2 / Speed 3, and which are selected on the basis of the difference between the humidity setting for the climate zone and the actual humidity reading for the room. The greater the difference, the greater the output voltage (0-10V). The humidity differences triggering the different speed levels can be set in parameters *Change from speed* 1 to 2 and *Change from speed* 1 to 3.
ADVANCED	DAY, OFF GROUP	A group number can be assigned to one of the 2 day or OFF setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing ... gives access to the group manager panel from which you can create or delete groups.

Advanced



HUMIDIFICATION/ DEHUMIDIFICATION SIGNALLING	This option can be used to configure an output to obtain an indication of humidification or dehumidification mode. Output active = dehumidification mode, output inactive = humidification mode.
GROUP DAY MODE OFF MODE	A group number can be assigned to one of the 2 day or off setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system. Pressing ... gives access to the group manager panel from which you can create or delete groups.

DEW POINT PARAMETERS



General

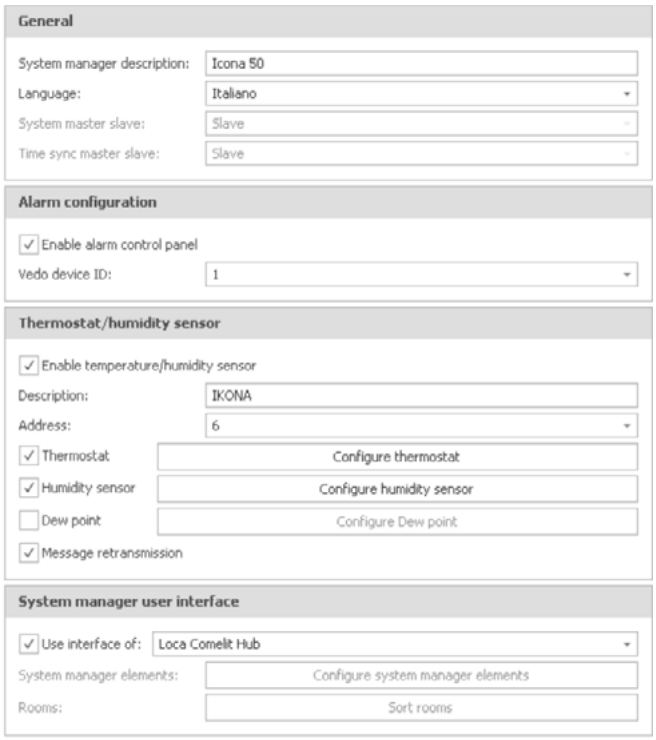
DEW POINT CONTROL ENABLED	this option is used to enable/disable dew point control.
SEND DEW POINT ON	Indicates the method for transmission of the temperature reading over the bus. These transmissions update the system managers as to the status (e.g. humidity readings). We recommend leaving this parameter set to the default value (5 minutes). **TIME INTERVAL**: the temperature reading will be sent at time intervals set in the "Send dew point interval" field. **DEW POINT CHANGE**: the temperature reading will be sent when there are changes equal to or greater than those set in the"Send dew point change" field.
DEW POINT HYSTERESIS	the dew point hysteresis allows control of cooling system activation/deactivation without continuous activation or deactivation of the machine. For example, with a hysteresis of 0.4°, if a dew point offset of 20°C is set, the function will activate at 20°C and deactivate at 19.6°C.
COOLED SURFACE TEMPERATURE	To calculate the dew point it's necessary to manually set the temperature reached by the cooling surface (floor) when the system is running can be set.

Advanced

ENABLE GROUP DISABLE GROUP	you can assign an ENABLE GROUP and a DISABLE GROUP to the DEWPOINT function to activate or deactivate the function itself. Pressing ... gives access to the group manager panel from which you can create or delete groups.
DEW POINT OVERCOMING SIGNALLING	a MODULE and an OUTPUT paired with the dew point function can be selected to show when the calculated limit has been exceeded. Pressing ... gives access to the group manager panel from which you can create or delete groups.

ICONA MANAGER 20003310W

MODULE INFORMATION



General

SYSTEM MANAGER DESCRIPTION	enter a short description of the system manager to easily identify it within the project.
LANGUAGE	select the language for the system manager interface
SYSTEM MASTER / SLAVE	the *master* device transmits the HOME AUTOMATION CONFIGURATION to the *slave* devices. • By default, the first system manager to be added to the system will be the *master*. • Only one of the system managers in the system may be set as the master, and all the remaining system managers must be set as slaves. • The device will automatically be a slave if there is a Comelit Hub 20003150 in the system.
TIME SYNC MASTER / SLAVE	The *master* device transmits the DATE AND TIME to the *slave* devices. • By default, the system manager added to the system is a time sync slave. • If there is a Comelit Hub 20003150 in the system, it will be the master device. • Only one of the system managers in the system may be set as the *master*, and all the remaining system managers must be set as *slaves*. • TIME SYNC master and SYSTEM master may be 2 different system managers. • If there is no Comelit Hub 20003150 in the system we recommend setting Serial Bridge 20003101 as time sync master so that the date and time are updated automatically.

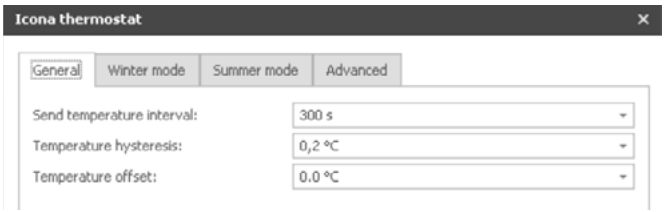
Alarm configuration

ENABLE ALARM CONTROL PANEL	select the ID of the device configured on the control panel. ⚠ S-series control panels are not compatible with Icona Manager

Thermostat/humidity sensor

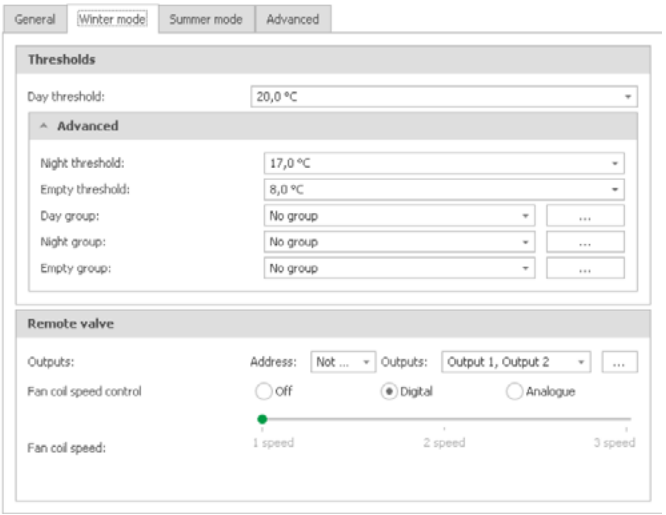
ENABLE TEMPERATURE/ HUMIDITY SENSOR	this function is used to enable/disable programming of the system manager's built-in temperature and humidity sensor
DESCRIPTION	you can enter a description of the sensor to facilitate its identification in the system manager
ADDRESS	assign an address on the bus to the sensor
THERMOSTAT **CONFIGURE THERMOSTAT *(1)**	the tick box serves to enable/disable the thermostat function of the system manager. The CONFIGURE THERMOSTAT panel is used to set the parameters of the device's built-in thermostat to ensure its correct operation. (Further information on page 45)
HUMIDITY SENSOR **CONFIGURE HUMIDITY SENSOR *(2)**	the tick box serves to enable/disable the humidity sensor function of the system manager. The CONFIGURE HUMIDITY SENSOR panel is used to set the parameters of the device's built-in humidity sensor to ensure its correct operation. (Further information on page 46)
DEW POINT **CONFIGURE DEW POINT *(3)**	the tick box serves to enable/disable the dew point function of the system manager The CONFIGURE DEW POINT panel is used to set the specific parameters of the function. (Further information on page 47)
MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.

*(1) Configure thermostat - GENERAL



SEND TEMPERATURE INTERVAL	indicates the time interval in seconds between each transmission of the temperature reading over the bus. Sending these temperature readings serves to update the system managers.
TEMPERATURE HYSTERESIS	indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in winter day mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In summer mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
TEMPERATURE OFFSET	if the temperature reading taken in the room by another instrument is slightly different to that displayed by the thermostat due to the installation position of the latter, a correction coefficient, measured in tenths of a degree (this can also be negative), can be applied and added to the actual temperature reading. This is set by default to 0.

*(1) Configure thermostat - WINTER/SUMMER MODE



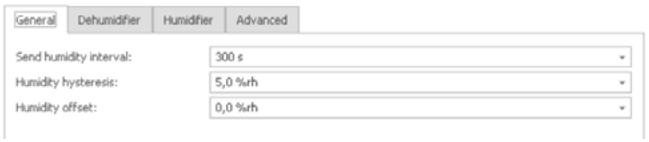
THRESHOLDS	DAY / NIGHT / EMPTY THRESHOLD	select the setpoint and the zone to which the various operating modes will be applied
	DAY / NIGHT/ OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. This means it is possible, by closing a digital input for example, to select the same setpoint on all the humidity sensors in the system.

REMOTE VALVE	ADDRESS	enter the corresponding address used for activation of the thermostat control system in the selected mode
	OUTPUT	enter the output used for activation of the thermostat control system in the selected mode
	FAN COIL SPEED CONTROL	**DIGITAL**: set this option if you want to control a multi-speed convector heater which is connected to a module over the BUS. In this case the first 4 module outputs on the installed module will be reserved for this function. Set the number of the module you wish to use and specify which of the 3 speeds will be used. *For example, if you select "Remote valve" and set the module number to 2, output 1 on module 2 will be used to enable and activate the temperature control machine, while outputs 2, 3 and 4 on module 2 will be used to control the 3 speed levels. Output 2 for speed level 1, output 3 for speed level 2 and output 4 for speed level 3.* **ANALOGUE:** this parameter can be used to set the climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in the advanced menu, and which are selected on the basis of the difference between the temperature setting for the climate zone and the actual temperature reading for the room. The greater the difference, the greater the output voltage (0-10V). The temperature differences that trigger changes in speed can be set in the advanced settings.

*(1) Configure thermostat - ADVANCED

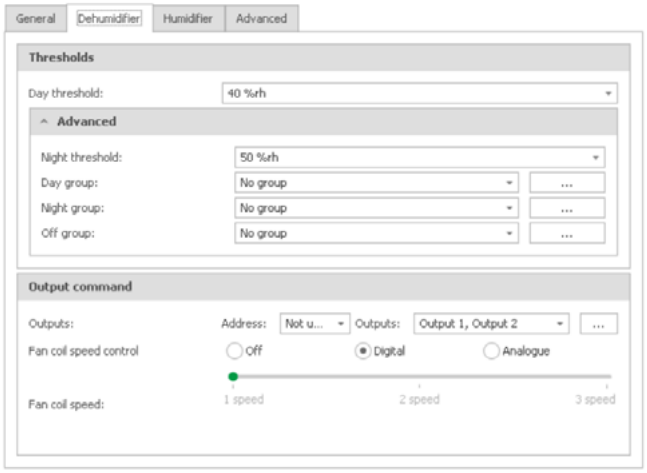
WINTER-SUMMER SIGNALLING MODULE	this option can be used to configure an output to obtain an indication of the thermostat in SUMMER mode.
DAY GROUP NIGHT GROUP	a zone number can be assigned to one of the 3 day and night setpoints. *This means it is possible, for example by closing a digital input, to set the same threshold on all thermostats or Minitouch devices in the system* Pressing [...] gives access to the group manager panel from which you can create or delete groups
TEMPERATURE CHANGE FROM SPEED 1 TO 2 and from 1 TO 3	these values indicate the temperature difference, in relation to the setpoint, required for activation of speed 1, 2 or 3.
SPEED 1 SPEED 2 SPEED 3	these values indicate the 3 speeds of the fan coil units in analogue mode expressed as a percentage.

*(2) Configure humidity sensor - GENERAL



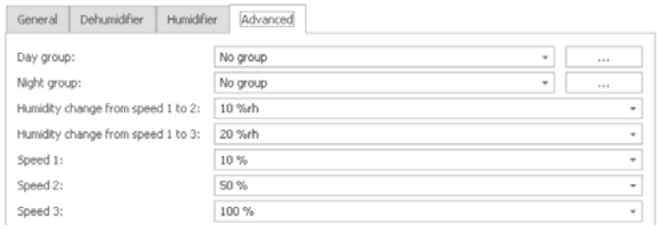
SEND HUMIDITY INTERVAL	indicates the time interval in seconds between each transmission of the setpoints and humidity settings over the BUS. These transmissions update the system managers as to the status (e.g. humidity readings). We recommend leaving this parameter set to the default value (5 minutes).
HUMIDITY HYSTERESIS	humidity hysteresis allows control of the humidification/dehumidification system without continuous activation or deactivation of the machine. For example, if you set a hysteresis of 5% and a humidity value of 60% for dehumidification, the dehumidifier will stop when the humidity reaches 55% (60% set value - 5% hysteresis) and restart when the value rises to 61%.
HUMIDITY OFFSET	if the humidity reading taken in the room by another instrument is slightly different to that displayed by the humidity sensor due to the installation position of the latter, a correction coefficient, measured in tenths of a degree (this can also be negative), can be applied and added to the actual humidity reading. This is set by default to 0.

*(2) Configure humidistat - DEHUMIDIFIER / HUMIDIFIER



THRESHOLDS	**DAY THRESHOLD** NIGHT THRESHOLD EMPTY THRESHOLD	select the setpoint and the zone to which the various operating modes will be applied
	DAY GROUP NIGHT GROUP OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. This means it is possible, for example by closing a digital input, to set the same operating mode on all humidifiers or Minitouch devices in the system.
OUTPUT COMMAND	ADDRESS	enter the corresponding address used for activation of the humidity control system in the selected mode
	OUTPUTS	enter the corresponding output used for activation of the humidity control system in the selected mode
	FAN COIL SPEED CONTROL	**DIGITAL**:set this option if you want to control a multi-speed unit connected to a module over the BUS. In this case the first 4 module outputs on the installed module will be reserved for this function. Set the address of the module you wish to use and specify which of the 3 speeds will be used. *For example, if you select "Remote valve" and set the module number to 2, output 1 on module 2 will be used to enable and activate the unit, while outputs 2, 3 and 4 on module 2 will be used to control the 3 speed levels (output 2 for speed 1, output 3 for speed 2 and output 4 for speed 3).* **ANALOGUE:** this parameter can be used to set the climate zone to control a multi-speed fan coil unit with a 0-10V analogue input. In this way the climate zone will send a speed control command to the analogue 0-10V output connected to the fan coil unit to control its operating speed. The analogue output control provides 3 speed settings, which can be set as required in the ADVANCED MENU, and which are selected on the basis of the difference between the temperature/humidity setting for the climate zone and the actual temperature/humidity reading for the room. The greater the difference, the greater the output voltage (0-10V). The differences in temperature and humidity that trigger changes in speed can be set in the advanced settings.

*(2) Configure thermostat - ADVANCED



GROUP DAY GROUP NIGHT GROUP	a zone number can be assigned to one of the 3 day and night setpoints. This means it is possible, for example by closing a digital input, to set the same operating mode on all humidifiers or Minitouch devices in the system. Pressing [...] gives access to the group manager panel from which you can create or delete groups.
TEMPERATURE CHANGE FROM SPEED 1 TO 2 and from 1 TO 3	these values indicate the temperature difference, in relation to the setpoint, required for activation of speed 1, 2 or 3.
SPEED 1 - 2 - 3	these values indicate the 3 speeds of the fan coil units in analogue mode expressed as a percentage

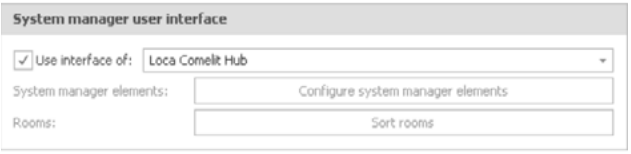
*[3] Configure dew point - GENERAL

SEND DEW POINT INTERVAL	indicates the time interval in seconds between each transmission of the setpoints and settings over the BUS. These transmissions update the system managers as to the status (e.g. humidity readings). We recommend leaving this parameter set to the default value (5 minutes).
DEW POINT HYSTERESIS	the dew point hysteresis allows control of the humidification/dehumidification system without continuous activation or deactivation of the machine. For example, with a hysteresis of 0.4°, if a dew point offset of 20°C is set, the function will activate at 20°C and deactivate at 19.6°C.
DEW POINT OFFSET	indicates the temperature below which the function is automatically deactivated

*[3] Configure dew point - ADVANCED

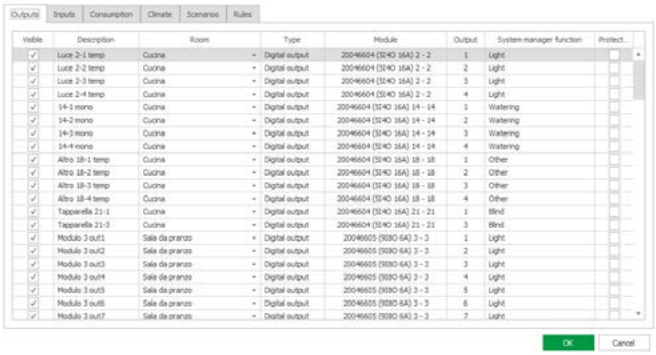
ENABLE GROUP DISABLE GROUP	You can assign an enable group and a disable group to the *Dew point* function to activate or deactivate the function itself. *Pressing ... gives access to the group manager panel from which you can create or delete groups.*
OUTPUT	You can select a MODULE and an OUTPUT to associate with the dew point function. *Pressing ... gives access to the group manager panel from which you can create or delete groups.*

System manager user interface



USE INTERFACE OF	it is possible to select a system manager from which to import the user interface, or to deselect the flag and configure the system manager manually. • This function can only be activated when there are at least 2 system managers in the system. • by default, the system manager uses the interface for the first system manager *(default master)* entered in the system.
CONFIGURE SYSTEM MANAGER ELEMENTS *	from this menu you can select which elements to view and manage via the system manager. **OUTPUTS / INPUTS / CONSUMPTION / CLIMATE / SCENARIOS / RULES** (Further information on page 47)
SORT ROOMS	the menu can be used to change the order in which rooms are displayed on the system manager. ► Remove the flag from *Use order from physical view*, select the desired room, move it up/down using the arrows, then confirm or cancel the procedure. • The order cannot be changed directly if using the interface for another system manager.

*Configure system manager elements - OUTPUTS



⚠ Only the OUTPUTS associated with the *Physical view* are visible

VISIBLE	the selected OUTPUTS will be displayed on the system manager. Select them using flags.
DESCRIPTION	the element description can be customised. » the new description will also be updated on the system manager.
ROOM	you can select the room to which the output is to be linked.
TYPE	displays the output type (analogue or digital)
MODULE	displays a description of the module for the relevant output
OUTPUT	displays the module channel
SYSTEM MANAGER FUNCTION	displays the category to which the relevant output belongs (light, automation, blind, irrigation, other)
SET OUTPUT OUTPUT	to use the Conditioned Output function, at least one input on one of the digital modules installed must be set as system manager. The conditioned output makes it possible to stop the timers set for that output on the system manager, according to the status of an input on a digital module set as system manager. Conditioning is activated by Icona Manager / Planux Manager / Minitouch.
CONDITIONED	the column visually displays the conditioning status of the outputs by means of a flag (present for conditioned outputs)
PROTECTED	this function can be used to protect the selected outputs in that a password will be required before their ACTIVATION or DEACTIVATION via system manager

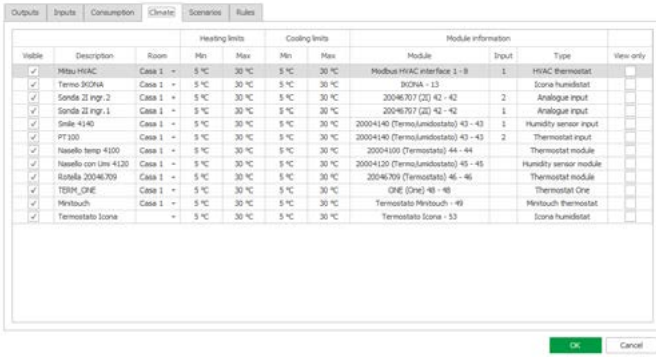
*Configure system manager elements - INPUTS

VISIBLE	the selected INPUTS will be displayed on the master home automation system manager or the system manager associated with the home automation master. Select, using the flags.
DESCRIPTION	the element description can be customised. » the new description will also be updated on the system manager.
ROOM	you can select the room to which the input is to be linked.
SCENARIO ACTIVATION	you can activate/deactivate the function by selecting**ON/OFF** from the drop-down menu
SCENARIO DESCRIPTION	you can enter a description of the selected scenario
TYPE	displays the input type (virtual or digital) Only the digital inputs set with the *System manager* function will be displayed
MODULE	displays a description of the module for the relevant input
INPUT	displays the module channel

*Configure system manager elements - CONSUMPTION

VISIBLE	the selected devices will be displayed on the master home automation system manager or the system manager associated with the home automation master.
DESCRIPTION	the element description can be customised. the new description will also be updated on the system manager.
TYPE	displays the type of load control device (*Load module* or *Meter input*)
MODULE	displays a description of the relevant module
MODULE FUNCTION	displays the function set for the module (*Consumption* or *Production).* A module set as PRODUCTION, of the LOAD MODULE type, will automatically generate the CO2 graph on the system manager. The CO2 graph will always be displayed.
INPUT	displays the module channel
GROUP	this function allows you to group together a number of meters of the same type (e.g. *Electricity consumption meters)* in a single group so that they can all be displayed graphically as a single meter. **Pressing Gruppi gives access to the group manager panel from which you can create or delete groups.** When a group is created, the corresponding graph will be generated automatically on the system manager. The Group graph will always be displayed.
COMPARE	this function allows you to compare and view a graph showing the consumption and production data for the selected TAs on the system manager. Select the TA set as *Production* and one of the TAs set as *Consumption*. The *Compare* graph will always be displayed.

*Configure system manager elements - CLIMATE



VISIBLE	the selected CLIMATE ELEMENTS will be displayed on the system manager. Select, using the flags.	
DESCRIPTION	the element description can be customised. the new description will also be updated on the System manager.	
ROOM	you can select the room to which the climate element is to be linked.	
HEATING LIMITS	you can change the heating setpoint regulation limits from the system manager.	
COOLING LIMITS	you can change the cooling setpoint regulation limits from the system manager.	
MODULE INFORMATION	MODULE	Displays a description of the module for the relevant climate device.
	INPUT	Displays the relevant module channel for art. 20003400.
	TYPE	Displays the type of climate device.
VIEW ONLY	this function allows you to set the view only element, it will not therefore be possible to send commands from the system manager	

*Configure system manager elements - SCENARIOS

VISIBLE	the selected *scenarios* will be displayed on the system manager. Select, using the flags. These scenarios cannot be changed from the system managers
DESCRIPTION	the element description can be customised. » the new description will also be updated on the system manager.

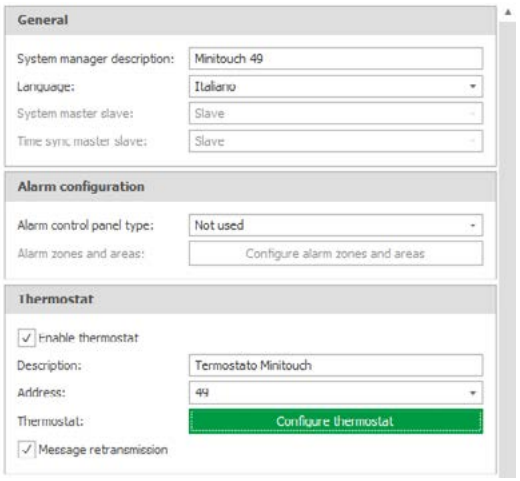
*Configure system manager elements - RULES

VISIBLE	the selected *rules* will be displayed on the system manager. Select, using the flags. The rules can be enabled/disabled from the system manager.
DESCRIPTION	the element description can be customised. » the new description will also be updated on the system manager.

MINITOUCH 20034607

MODULE INFORMATION

General



SYSTEM MANAGER DESCRIPTION	enter a short description of the system manager to easily identify it within the project.
LANGUAGE	select the language for the system manager interface
SYSTEM MASTER / SLAVE	the *master* device transmits the HOME AUTOMATION CONFIGURATION to the *slave* devices. • By default, the first system manager to be added to the system will be the *master*. • Only one of the system managers in the system may be set as the master, and all the remaining system managers must be set as slaves. • The device will automatically be a slave if there is a Comelit Hub 20003150 in the system.
TIME SYNC MASTER / SLAVE	the *master* device transmits the DATE AND TIME to the *slave* devices. • By default, the system manager added to the system is a time sync slave. • If there is a Comelit Hub 20003150 in the system, it will be the master device. • Only one of the system managers in the system may be set as the *master*, and all the remaining system managers must be set as *slaves*. • TIME SYNC master and SYSTEM master may be 2 different system managers. • If there is no Comelit Hub 20003150 in the system we recommend setting Serial Bridge 20003101 as time sync master so that the date and time are updated automatically.

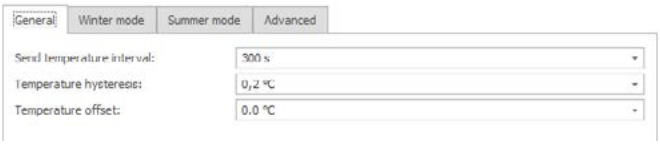
Alarm configuration

ALARM CONTROL PANEL TYPE	select the type of alarm control panel installed in the system: **S32 / S40 / S88 / S88F / S88R / S200 / VED010 / VED034 / VED068 / VED0200**
ALARM ZONES AND AREAS	for S series control panels, alarm zones and areas must be configured using the dedicated function: add areas, select wired zones / wireless zones used, pair zones and areas

Thermostat

ENABLE THERMOSTAT	the tick box serves to enable/disable the thermostat function of the system manager.
DESCRIPTION	you can enter a description of the sensor to facilitate its identification in the system manager.
ADDRESS	assign an address on the bus to the sensor.
CONFIGURE THERMOSTAT*(1)	defines the parameters of the device's built-in thermostat to ensure its correct operation.
MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.

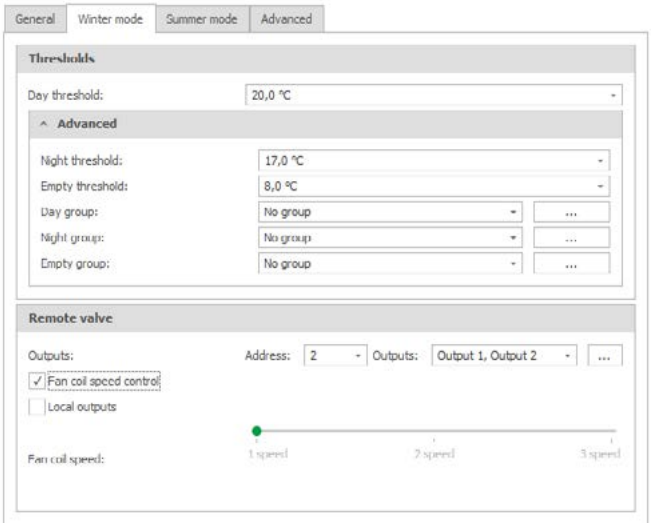
*(1) Configure thermostat - GENERAL



SEND TEMPERATURE INTERVAL	indicates the time interval in seconds between each transmission of the temperature reading over the bus. Sending these temperature readings serves to update the system managers.

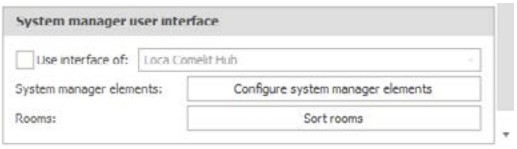
TEMPERATURE HYSTERESIS	indicates the thermostat output activation interval, in tenths of a degree. For example, if this is set to 4 tenths of a degree (default value) and the thermostat is set to 20°C in winter day mode, it will activate the relay until the temperature of 20°C is reached. After switching off, it will be reactivated when the temperature drops below 19.6°C (20°C - 0.4°C). In summer mode, operation is reversed and therefore if a setpoint of 20°C is selected, the thermostat will activate cooling mode until the temperature drops to 20°C. After switching off, it will be reactivated when the temperature exceeds 20.4°C.
TEMPERATURE OFFSET	if the temperature reading taken in the room by another instrument is slightly different to that displayed by the thermostat due to the installation position of the latter, a correction coefficient, measured in tenths of a degree (this can also be negative), can be applied and added to the actual temperature reading. This is set by default to 0.

*(1) Configure thermostat - WINTER/SUMMER MODE



THRESHOLDS	DAY / NIGHT / EMPTY THRESHOLD	select the setpoint and the zone to which the various operating modes will be applied
	DAY / NIGHT / OFF GROUP	a zone number can be assigned to one of the 3 day, night or off setpoints. *This means it is possible, by closing a digital input for example, to select the same setpoint on all the thermostats in the system.*
REMOTE VALVE	ADDRESS	enter the corresponding address used for activation of the temperature control system in the selected mode
	OUTPUT	enter the corresponding output used for activation of the temperature control system in the selected mode
	FAN COIL SPEED CONTROL	**DIGITAL**: set this option if you want to control a multi-speed convector heater which is connected to a module over the BUS. In this case the first 4 module outputs on the installed module will be reserved for this function. Set the number of the module you wish to use and specify which of the 3 speeds will be used. *For example, if you select "Remote valve" and set the module number to 2, output 1 on module 2 will be used to enable and activate the temperature control machine, while outputs 2, 3 and 4 on module 2 will be used to control the 3 speed levels. Output 2 for speed level 1, output 3 for speed level 2 and output 4 for speed level 3.*
	LOCAL OUTPUTS	Enable this function to use the built-in Minitouch outputs to control solenoid valves or fan coil units

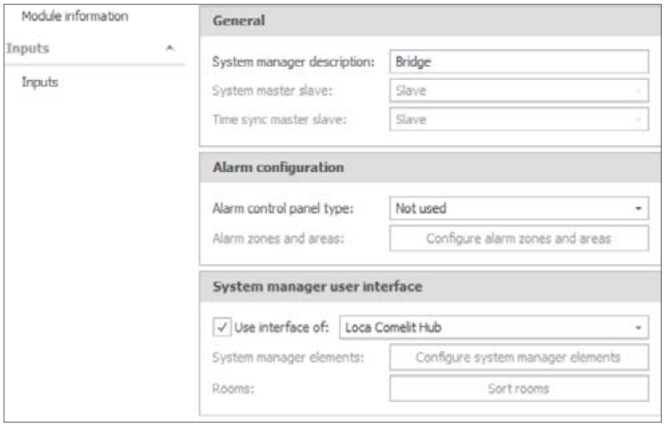
System manager user interface



USE INTERFACE OF	it is possible to select a system manager from which to import the user interface, or to deselect the flag and configure the system manager manually. • This function can only be activated when there are at least 2 system managers in the system. • by default, the system manager uses the interface for the first system manager *(default master)* entered in the system.
CONFIGURE SYSTEM MANAGER ELEM.	from this menu you can select which system manager elements to view and manage via the system manager. **OUTPUTS/INPUTS/CONSUMPTION/CLIMATE** (Further information on page 39)
SORT ROOMS	the menu can be used to change the order in which rooms are displayed on the system manager. ► Remove the flag from *Use order from physical view*, select the desired room, move it up/down using the arrows, then confirm or cancel the procedure. • The order cannot be changed directly if using the interface for another system manager.

SERIAL BRIDGE 20003101

MODULE INFORMATION



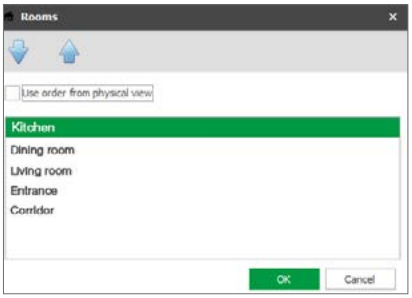
General

SYSTEM MANAGER DESCRIPTION	enter a short description of the system manager to easily identify it within the project.
SYSTEM MASTER / SLAVE	The *master* device transmits the HOME AUTOMATION CONFIGURATION to the *slave* devices. • By default, the first system manager to be added to the system will be the *master*. • Only one of the system managers in the system may be set as the master, and all the remaining system managers must be set as slaves. • The device will automatically be a slave if there is a Comelit Hub 20003150 in the system.
TIME SYNC MASTER / SLAVE	The *master* device transmits the DATE AND TIME to the *slave* devices. • By default, the system manager added to the system is a time sync slave. • If there is a Comelit Hub 20003150 in the system, it will be the master device. • Only one of the system managers in the system may be set as the *master*, and all the remaining system managers must be set as *slaves*. • TIME SYNC master and SYSTEM master may be 2 different system managers. *If you choose to set Serial Bridge 20003101 as time sync master, you will need to select "enable NTP" in "Setup_Date and Time" as illustrated in the programming manual for art. 20003101, available on the website pro.comelitgroup.com; otherwise if you set Serial Bridge 20003101 as a time sync slave you will need to deselect it.*
ALARM MASTER SLAVE	set the system manager as master or slave for the ALARM part of the system.

Alarm configuration

ALARM CONTROL PANEL TYPE	select the type of alarm control panel installed in the system: **S32 / S40 / S88 / S88F / S88R / S200 / VED010 / VED034 / VED068 / VED0200**
ALARM ZONES AND AREAS	⚠ For S series control panels, alarm zones and areas must be configured using the dedicated function: **1.** add the areas **2.** select the wired zones/wireless zones used **3.** associate the zones and areas

System manager user interface

USE INTERFACE OF	it is possible to select a system manager from which to import the user interface, or to deselect the flag and configure the system manager manually. • This function can only be activated when there are at least 2 system managers in the system. • by default, the system manager uses the interface for the first system manager *(default master)* entered in the system.
CONFIGURE SYSTEM MANAGER ELEMENTS*	from this menu you can select which system manager elements to view and manage via the system manager. **OUTPUTS / INPUTS / CONSUMPTION / CLIMATE** (Further information on page 39)
SORT ROOMS	the menu can be used to change the order in which rooms are displayed on the system manager. ► Remove the flag from *Use order from physical view*, select the desired room, move it up/down using the arrows, then confirm or cancel the procedure. The order cannot be changed directly if using the interface for another system manager. 

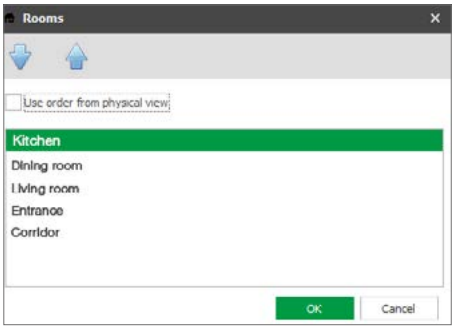
COMELIT HUB 20003150

MODULE INFORMATION

General

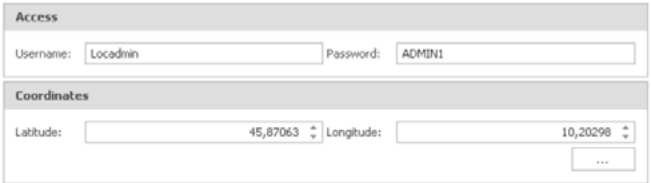
SYSTEM MANAGER DESCRIPTION	Enter a short description of the system manager to easily identify it within the project and while pairing it with the Comelit app.
TYPE	this parameter shows the product name and code
SYSTEM MASTER SLAVE	The *master* device transmits the home automation configuration to the *slave* devices. Comelit Hub is always the system master.
TIME SYNC MASTER SLAVE	The *master* device transmits the DATE AND TIME to the *slave* devices. Comelit Hub is always the *time sync* master.

App user interface

CONFIGURE SYSTEM MANAGER ELEMENTS	the menu can be used to select which elements to view and manage via the Comelit app and via the system managers utilising the user interface for the module. **OUTPUTS / INPUTS / CONSUMPTION / CLIMATE / SCENARIOS / RULES** (Further information on page 47)
ROOMS	the menu can be used to change the order in which rooms are displayed on the system manager and in the Comelit app. ► Remove the flag from *Use order from physical view*, select the desired room, move it up/down using the arrows, then confirm or cancel the procedure. 

SETTINGS

General



ACCESS	USERNAME	Enter a username for login via app and system managers. (Default: admin)
	PASSWORD	Enter a password for login via app and system managers. (Default: admin)

*COORDINATES	LATITUDE	Enter the geographical coordinates for the module installation site.
	LONGITUDE	Enter the geographical coordinates for the module installation site.

*Parameters required to use the *Twilight* function in Rules.

Alarm

Communication with the Vedo alarm control panel requires suitable configuration using the Safe Manager software.
Compatible Vedo control panels: VEDO10 - VEDO34 - VEDO68 - VEDO200 version 2.10.X - VEDO IP version 2.7.X

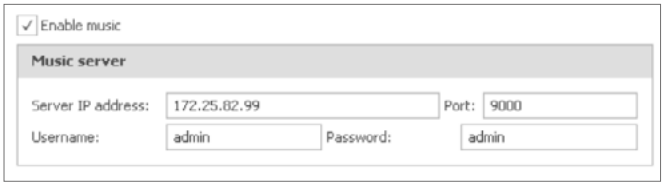
The Import Safe option automatically imports the required parameters from Safe Manager.

ENABLE ALARM	Click in the box to allow communication with the alarm system.
VEDO DEVICE ID	Enter the device ID as set in Safe Manager.
VEDO DEVICE PASSWORD	Enter the device password as set in Safe Manager.
LOCAL IP ADDRESS	Enter the local IP address of the alarm control panel with which you want to communicate.
PORT	Enter the local communication port for the control panel as set in Safe Manager.
IMPORT SAFE	Click "Import Safe" to automatically recover the required data by importing the project form the Safe Manager database. This option allows the integration of alarm system actions into scenarios and home automation rules.

ViP

ENABLE ViP	This option is used to enable/disable video entry system management using the Comelit app via Comelit Hub.

Music



MUSIC SERVER	ENABLE MUSIC	this option is used to enable/disable communication between Comelit Hub and the audio distribution server module.
	SERVER IP ADDRESS	Enter the IP address of the audio distribution server module you want to manage.
	PORT	Enter the communication port configured on the audio distribution server you want to manage.
	USERNAME	Enter the username configured on the audio distribution server you want to manage.
	PASSWORD	Enter the password configured on the audio distribution server you want to manage.

SCENARIOS

Scenario is the function used to send a sequence of commands via BUS. The scenario can send commands to home automation systems and alarm systems; a delay can be set between these actions. Scenarios can be executed manually or automatically.
For example, the scenario command can be used to switch off all the lights in the home, close the blinds, deactivate controlled sockets, etc. with a single command.

Comelit Hub can be used to manage up to 100 scenarios.

DESCRIPTION	enter a short description of the scenario to easily identify it within the project, in the Comelit app and on system managers.

	PHYSICAL ELEMENT	OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
		ELEMENT TYPE The options depend on the functions created in *Physical view*.	Choose between: LIGHT / CLIMATE / AUTOMATION / IRRIGATION / BLIND / OTHER
		PHYSICAL ELEMENT The options depend on the functions created in *Physical view*.	select from the available elements. (Example Light1, Light2)
		COMMAND The options depend on the selected element.	choose from the available options

TARGET TYPE	**MODULE** Input/Outputs not associated with any system element can be entered directly. If the desired input/ output has already been associated with an element, you will need to use “System element” as “Target type”	**COMMAND TYPE** Select the command to send to the group.	Choose between: **NORMAL** the module sends a command to the addressee, switching the output for which it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time. If you send a normal command to an output set as Step by Step, the output inverts its status.*
			SET the module sends a “force ON” command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received*
			RESET the module sends a “force OFF” command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. The RESET command does not affect outputs set as "Blind" or "Venetian blind". *For example, if you want to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive*
			ACTIVATE ANALOGUE OUTPUT the module sends the activation command to the set analogue output, bringing the output to the last value set temporarily.
			DEACTIVATE ANALOGUE OUTPUT the module sends the off command to the set analogue output.
			SET ANALOGUE VALUE this command can be used to control an analogue output on a module. *For example, the output of dimmer 20046851, choosing also the value you wish to set.*
			SET RGB COLOUR this command can be used to control an output of the module 20004600 configured as RGB to adjust the colour and brightness.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.
		TARGET PROPERTIES	Select the address of the module and the relevant output you wish to control. Pressing [...] gives access to the module manager panel from which you can select the output.
	GROUP	**COMMAND TYPE** Select the command to send to the group.	Choose between: **NORMAL** the module sends a command to the addressee, switching the output for which it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time. If you send a normal command to an output set as Step by Step, the output inverts its status.*
			SET the module sends a “force ON” command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received*
			RESET the module sends a “force OFF” command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. The RESET command does not affect outputs set as "Blind" or "Venetian blind". *For example, if you want to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive*
			SET ANALOGUE VALUE this command can be used to control an analogue output on a module. *For example, the output of dimmer 20046851, choosing also the value you wish to set.*
			SET RGB COLOUR this command can be used to control an output of the module 20004600 configured as RGB to adjust the colour and brightness.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.
		GROUP	Select the group to associate with the action. Pressing [...] gives access to the group manager panel* from which you can create or delete groups.
	SCENARIO	**COMMAND TYPE** Select the command to send to the scenario.	Choose between: **START SCENARIO / STOP SCENARIO**
		SCENARIO	select the scenario you want to control.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.
	ALARM *Option only available in the first scenario action.*	Actions available if *Import Safe* command is executed in the *Alarm Settings section.*	
		COMMAND TYPE Select the command to send to the alarm control panel.	Choose between: **ALARM AREAS / ALARM SCENARIO**
		ALARM AREA COMMANDS Option available if Command type - Alarm areas is selected.	choose from the available options. (areas and commands for areas configured on the alarm control panel)
		ALARM SCENARIO Option available if Command type - Alarm scenario is selected.	choose from the available options. (scenarios configured on the alarm control panel)
	RULE ENABLE	**COMMAND TYPE** Select the command to send to the rule.	Choose between: **ENABLE RULE / DISABLE RULE**
		RULE	select the rule you want to control.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
	ViP	**COMMAND TYPE**	Choose between: **ACTUATOR MODULE ACTIVATION / LOCK-RELEASE RELAY / FLOOR DOOR CALL**
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
		ViP ADDRESS Option available if “Actuator module activation_Lock-release relay” is selected.	enter the address of the ViP module you want to control.
		EXPANSION Option available if Actuator module activation is selected.	choose the ViP actuator module / ViP expansion you want to control.
		OUTPUT Option available if Actuator module activation is selected.	choose the ViP actuator module / ViP expansion output you want to control.
		RELAY Option available if “Lock-release relay” is selected.	choose the relay you want to control.

RULES

Rule is the action that must be carried out automatically when the specified ***conditions*** arise.
Comelit Hub can be used to manage up to 100 rules.

Example: You want to *activate* the output controlling the boiler when one of the outputs connected to the zone valve is active; you want to *deactivate* it when all the outputs controlling the zone valves are inactive.

To do so, a rule must be created with:
- OR operator
- as many conditions as there are solenoid valves, entering the ON status for each of the outputs
- set the boiler output activation command as *True rule action*
- set the boiler output deactivation command as *False rule action*

Rule settings

SEND ACTIONS ON RESTART	the parameter defines how the rules should be evaluated when Comelit Hub starts up or after a configuration has been sent. When the flag is enabled (default condition), at the end of the condition evaluation process, the relevant actions will be carried out in accordance with the rule status (True or False). When the flag is disabled, the conditions are evaluated but no action is sent until the first time one of the entered conditions changes.
RULE DESCRIPTION	enter a short description of the rule to easily identify it within the project, in the Comelit app and on system managers

RULE OPERATOR	**AND**: the command takes place automatically when all the conditions arise at the same time **OR**: the command takes place automatically when at least one (or more) of the conditions arises

Rule conditions

Depending on whether the AND or OR option is selected, the occurrence of one or more of the ***conditions*** will trigger the activation of the specified ***rule***.

Enter one or more conditions by clicking Add, click Remove to remove the selected condition.

CONDITION	the conditions are numbered progressively.
DESCRIPTION	enter a short description identifying the condition.

TYPE	**PHYSICAL ELEMENT**	SUBTYPE The options depend on the functions created in *Physical view*.	Choose between: LIGHT / CLIMATE / AUTOMATION / IRRIGATION / BLIND / BUTTON / OTHER
		PHYSICAL ELEMENT The options depend on the functions created in *Physical view*.	select from the available elements (Example Light1, Light2)
		STATUS The options depend on the selected element.	choose from the available options
	I/O DIGITAL	SUBTYPE	Choose between: DIGITAL INPUT / DIGITAL OUTPUT
		ADDRESS	enter the address of the module relating to the input/output to take into account
		INPUT/OUTPUT	enter the input/output to take into account
		STATUS	choose from the available options
	I/O ANALOGUE	SUBTYPE	Choose between: ANALOGIUE INPUT / ANALOGUE OUTPUT
		ADDRESS	enter the address of the module relating to the input/output to take into account
		INPUT/OUTPUT	enter the input/output to take into account
		STATUS	choose from the available options
	ALARM *Option only available if Alarm management is enabled in Comelit Hub*	SUBTYPE	Choose between: AREA / ZONE
		STATUS	choose from the available options: AREA: ARMED / DISARMED / ALARM / ENTRANCE DELAY / EXIT DELAY / PRE-ALARM TEST: OPEN ZONE / CLOSED ZONE
		AREA / ZONE	choose from the available options.
	ViP	SUBTYPE	Choose between: EXTERNAL CALL / INTERCOMMUNICATION CALL / FLOOR DOOR CALL / ALARM CALL
	SCHEDULING	SUBTYPE	Choose between: TIME SPAN / WEEK DAYS / ASTRONOMICAL TWILIGHT
		STATUS The options depend on the selected subtype.	choose from the available options: TIME SPAN: INSIDE TIME SPAN/OUTSIDE TIME SPAN enter the start time and end time of the interval
			choose from the available options: WEEK DAYS select the days of the week to be included in the condition
			choose from the available options: ASTRONOMICAL TWILIGHT DAY/NIGHT you have the option of entering a deferred or advance variation to the selected status
	OTHER RULE select *Other rule* to add a previously created rule to the conditions	SUBTYPE	Choose between: RULE RESULT / RULE ENABLE
		STATUS The options depend on the selected subtype.	choose from the available options: RULE RESULT: RULE TRUE / RULE FALSE RULE ENABLE: RULE ENABLED / RULE DISABLED
		RULE	Select the rule to assess within the condition.

True rule action

True rule is the command that will be carried out automatically when the ***conditions*** in the *Rule conditions* section arise.

ACTION	enter one or more actions by clicking Add; the actions are numbered progressively Click Remove to remove the selected action.
DESCRIPTION	enter a short description of the Action

TARGET TYPE	**PHYSICAL ELEMENT**	OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
		ELEMENT TYPE The options depend on the functions created in *Physical view*.	Choose between: LIGHT / CLIMATE / AUTOMATION / IRRIGATION / BLIND / BUTTON / OTHER
		PHYSICAL ELEMENT The options depend on the functions created in *Physical view*.	select from the available elements. (Example Light1, Light2)
		COMMAND The options depend on the selected element.	choose from the available options
	MODULE Input/Outputs not associated with any system element can be entered directly. If the desired input/output has already been associated with an element, you will need to use "System element" as "Target type"	COMMAND TYPE Select the command to send to the group.	Choose between: NORMAL the module sends a command to the addressee, switching the output for which it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time. If you send a normal command to an output set as Step by Step, the output inverts its status.*
			SET the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received*
			RESET the module sends a "force OFF" command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. The RESET command does not affect outputs set as "Blind" or "Venetian blind". *For example, if you want to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive*
			ACTIVATE ANALOGUE OUTPUT the module sends the activation command to the set analogue output, bringing the output to the last value set temporarily.
			DEACTIVATE ANALOGUE OUTPUT the module sends the off command to the set analogue output.
			SET ANALOGUE VALUE this command can be used to control an analogue output on a module. *For example, the output of dimmer 20046851, choosing also the value you wish to set.*

TARGET TYPE			**SET RGB COLOUR** this command can be used to control an output of the module 20004600 configured as RGB to adjust the colour and brightness.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.
		TARGET PROPERTIES	Select the address of the module and the relevant output you wish to control. Pressing [...] gives access to the module manager panel from which you can select the output.
	GROUP	**COMMAND TYPE** Select the command to send to the group.	Choose between: **NORMAL** the module sends a command to the addressee, switching the output for which it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time. If you send a normal command to an output set as Step by Step, the output inverts its status.*
			SET the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received*
			RESET the module sends a "force OFF" command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. The RESET command does not affect outputs set as "Blind" or "Venetian blind". *For example, if you want to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive*
			SET ANALOGUE VALUE this command can be used to control an analogue output on a module. *For example, the output of dimmer 20046851, choosing also the value you wish to set.*
			SET RGB COLOUR this command can be used to control an output of the module 20004600 configured as RGB to adjust the colour and brightness.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.
		GROUP	Select the group to associate with the action. Pressing [...] gives access to the group manager panel* from which you can create or delete groups.
	SCENARIO	**COMMAND TYPE** Select the command to send to the scenario.	Choose between: **START SCENARIO / STOP SCENARIO**
		SCENARIO	select the scenario you want to control.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.
	ALARM *Option only available in the first scenario action.*	Actions available if *Import Safe* command is executed in the *Alarm Settings section.*	
		COMMAND TYPE Select the command to send to the alarm control panel.	Choose between: **ALARM AREAS / ALARM SCENARIO**
		ALARM AREA COMMANDS Option available if Command type - Alarm areas is selected.	choose from the available options. (areas and commands for areas configured on the alarm control panel)
		ALARM SCENARIO Option available if Command type - Alarm scenario is selected.	choose from the available options. (scenarios configured on the alarm control panel)
	RULE ENABLE	**COMMAND TYPE** Select the command to send to the rule.	Choose between: **ENABLE RULE / DISABLE RULE**
		RULE	select the rule you want to control.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
	VIP	**COMMAND TYPE**	Choose between: **ACTUATOR MODULE ACTIVATION / LOCK-RELEASE RELAY / FLOOR DOOR CALL**
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
		ViP ADDRESS Option available if "Actuator module activation_Lock-release relay" is selected.	enter the address of the ViP module you want to control.
		EXPANSION Option available if Actuator module activation is selected.	choose the ViP actuator module / ViP expansion you want to control.
		OUTPUT Option available if Actuator module activation is selected.	choose the ViP actuator module / ViP expansion output you want to control.
		RELAY Option available if "Lock-release relay" is selected.	choose the relay you want to control.
	EMAIL NOTIFICATION *Option only available in the first scenario action.*	**LANGUAGE**	set the language for the message sent by Comelit Hub
		SUBJECT	enter the text which will appear in the email subject line. The entered text will be added following a standard part consisting of "Comelit Hub Description"
		A	enter email recipient addresses
		MESSAGE	enter the text which will appear in the email. In addition to the entered message, the conditions present in the rule in question and the relevant status will also be included in the email.
ADVANCED	**HYSTERESIS TIME**	rule status assessment time. The actions will only be carried out at the end of the time set if the rule does not change status. enter a value expressed in hours/minutes/seconds	

False rule action

False rule is the command that will be carried out automatically when the ***conditions*** in the *Rule conditions* section arise.

ACTION	enter one or more actions by clicking *Add;* the actions are numbered progressively Click *Remove* to remove the selected action.
DESCRIPTION	enter a short description of the Action

TARGET TYPE	**PHYSICAL ELEMENT**	**OUTPUT** Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
		ELEMENT TYPE The options depend on the functions created in *Physical view.*	Choose between: **LIGHT / CLIMATE / AUTOMATION / IRRIGATION / BLIND / OTHER**
		PHYSICAL ELEMENT The options depend on the functions created in *Physical view.*	select from the available elements. (Example Light1, Light2)
		COMMAND The options depend on the selected element.	choose from the available options
	MODULE Input/Outputs not associated with any system element can be entered directly. If the desired input/ output has already been associated with an element, you will need to use "System element" as "Target type"	**COMMAND TYPE** Select the command to send to the group.	Choose between: **NORMAL** the module sends a command to the addressee, switching the output for which it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time. If you send a normal command to an output set as Step by Step, the output inverts its status.*
			SET the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received*
			RESET the module sends a "force OFF" command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. The RESET command does not affect outputs set as "Blind" or "Venetian blind". *For example, if you want to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive*

			ACTIVATE ANALOGUE OUTPUT the module sends the activation command to the set analogue output, bringing the output to the last value set temporarily.
			DEACTIVATE ANALOGUE OUTPUT the module sends the off command to the set analogue output.
			SET ANALOGUE VALUE this command can be used to control an analogue output on a module. *For example, the output of dimmer 20046851, choosing also the value you wish to set.*
			SET RGB COLOUR this command can be used to control an output of the module 20004600 configured as RGB to adjust the colour and brightness.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.
		TARGET PROPERTIES	Select the address of the module and the relevant output you wish to control. Pressing [...] gives access to the module manager panel from which you can select the output.
	GROUP	**COMMAND TYPE** Select the command to send to the group.	Choose between: **NORMAL** the module sends a command to the addressee, switching the output for which it was programmed. *For example, if you send a normal command to a timed output, the output will be activated for the set time. If you send a normal command to an output set as Step by Step, the output inverts its status.*
			SET the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received*
			RESET the module sends a "force OFF" command and the output is then deactivated regardless of the programming, remaining inactive until a new command is sent. The RESET command does not affect outputs set as "Blind" or "Venetian blind". *For example, if you want to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive*
			SET ANALOGUE VALUE this command can be used to control an analogue output on a module. *For example, the output of dimmer 20046851, choosing also the value you wish to set.*
			SET RGB COLOUR this command can be used to control an output of the module 20004600 configured as RGB to adjust the colour and brightness.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.
		GROUP	Select the group to associate with the action. Pressing [...] gives access to the group manager panel* from which you can create or delete groups.
	SCENARIO	**COMMAND TYPE** Select the command to send to the scenario.	Choose between: **START SCENARIO / STOP SCENARIO**
		SCENARIO	select the scenario you want to control.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds.

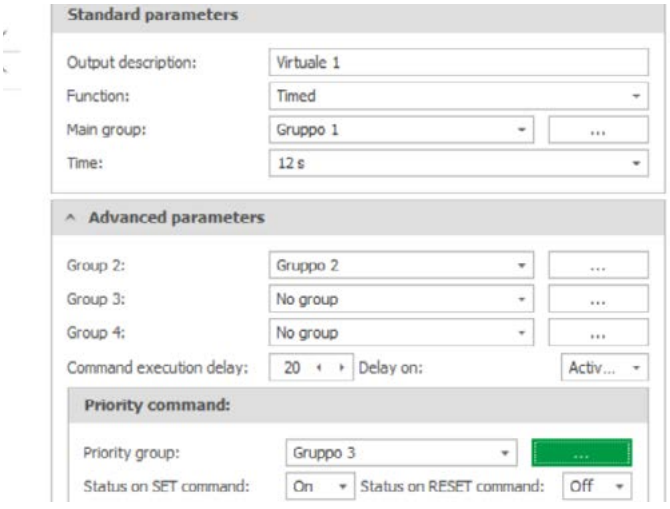
	ALARM *Option only available in the first scenario action.*	Actions available if *Import Safe* command is executed in the *Alarm Settings section.*	
		COMMAND TYPE Select the command to send to the alarm control panel.	Choose between: **ALARM AREAS / ALARM SCENARIO**
		ALARM AREA COMMANDS Option available if Command type - Alarm areas is selected.	choose from the available options. (areas and commands for areas configured on the alarm control panel)
		ALARM SCENARIO Option available if Command type - Alarm scenario is selected.	choose from the available options. (scenarios configured on the alarm control panel)
	RULE ENABLE	**COMMAND TYPE** Select the command to send to the rule.	Choose between: **ENABLE RULE / DISABLE RULE**
		RULE	select the rule you want to control.
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
	VIP	**COMMAND TYPE**	Choose between: **ACTUATOR MODULE ACTIVATION / LOCK-RELEASE RELAY / FLOOR DOOR CALL**
		OUTPUT Time interval between the execution of the set action and the previous action.	enter a value expressed in hours/minutes/seconds
		ViP ADDRESS Option available if "Actuator module activation_Lock-release relay" is selected.	enter the address of the ViP module you want to control.
		EXPANSION Option available if Actuator module activation is selected.	choose the ViP actuator module / ViP expansion you want to control.
		OUTPUT Option available if Actuator module activation is selected.	choose the ViP actuator module / ViP expansion output you want to control.
		RELAY Option available if "Lock-release relay" is selected.	choose the relay you want to control.
	EMAIL NOTIFICATION *Option only available in the first scenario action.*	**LANGUAGE**	set the language for the message sent by Comelit Hub
		SUBJECT	enter the text which will appear in the email subject line. The entered text will be added following a standard part consisting of "Comelit Hub Description"
		A	enter email recipient addresses
		MESSAGE	enter the text which will appear in the email. In addition to the entered message, the conditions present in the rule in question and the relevant status will also be included in the email.

ADVANCED	**HYSTERESIS TIME**	rule status assessment time. The actions will only be carried out at the end of the time set if the rule does not change status. enter a value expressed in hours/minutes/seconds	

VIRTUAL OUTPUT

The virtual outputs can be set as though they were normal outputs to carry out rules using their status. They can also be controlled from other modules on the BUS.

Standard parameters



OUTPUT DESCRIPTION	enter a short description of the module to easily identify it within the project in future.

FUNCTION	**STEP BY STEP**: set this function to switch the output with a pulse at the configured input. This function allows control of the output using traditional buttons connected to the digital input. Every time the button is pressed and released the output inverts its status. The command is activated when the button is pressed, yet no command is carried out when it is released. If, for example, 2 buttons are used to control the same output set as bistable, the following applies: when the first button is pressed the output is activated, when the second button is pressed the output is deactivated. If you press and hold the first button the output is activated; if you continue to press and hold the first button and press the second button, the output is deactivated. **TIMED**: when a button configured to control the timed output is pressed, the output is activated and then, once the time has elapsed, deactivated. When the output is set as TIMED, the activation time (in seconds) must be entered. If you enter a time of 0 seconds the output will be activated for 0.5 seconds, which is useful for the activation of an electric lock on a gate or other similar functions. To activate a timed output so that it switches off after the programmed time, the digital input configured for control must send a NORMAL command. If a RESET command is sent the output will be deactivated, whatever its condition at that moment. If a SET command is sent the output will be deactivated in any case at the end of the timed period. If a time of 0 seconds is set the output will be activated for 0.5 seconds. Reception of a NORMAL command resets the activation time on the timers.

MAIN GROUP	this function allows you to select a main group (from those available) to be associated with the output. **pressing [...] gives access to the group manager panel from which you can create or delete groups**
TIME	set the output time so that it corresponds to the activation time

Advanced parameters

GROUP 2 / 3 / 4	this function can be used to select other groups from those available to be coupled to the output in addition to the main group. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**
COMMAND EXECUTION DELAY	this command can be used to delay the execution of a received command by the output. *For example, if you set a delay of 4 seconds: the output will wait for 4 seconds following receipt of a command before executing it.*
DELAY ON	**ACTIVATION / DEACTIVATION / NOT USED:** can be used to set the action for which you want to add the command execution delay. For example, if you set *Delay* on *Activation*, the output will delay execution of the command received at the output at the moment of activation, while the output will not experience any delays in deactivation.

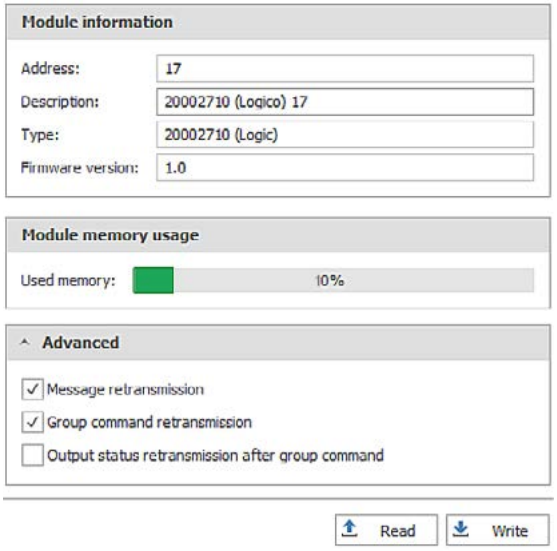
Priority command

PRIORITY GROUP	this function can be used to select a priority group (from those available) to be associated with the output. **pressing [...] gives access to the group manager panel from which you can create or delete groups**
STATUS ON SET COMMAND	this parameter can be used to determine how the output will behave when it receives a priority SET command, *for example an output controlling irrigation that must be* **activated** *or* **deactivated** *on receipt of a priority SET command and remain locked until receipt of a priority RESET command*
STATUS ON RESET COMMAND	this parameter can be used to determine how the output will behave when it receives a priority RESET command, *for example an output controlling irrigation that must be* **activated** *or* **deactivated** *on receipt of a priority RESET command*

LOGIC FUNCTIONS MODULE - ART. 20002710

When connected to the system, the module allows logic functions to be performed using, as elements of the rule, the events that are sent by the different modules on the BUS.

MODULE INFORMATION



Module information

ADDRESS	Progressive number assigned to the module by SimpleProg the moment it is added to the devices list. ⚠ To assign an address to the module, use the DIP-switches.
DESCRIPTION	enter a short description of the module to easily identify it within the project. example: Mod5 503 ground floor bathroom input
TYPE	Indicates the model of the module being programmed
FIRMWARE VERSION	Module firmware version. If a reading has never been taken from the module, this value is shown as "-". This value should not be taken as the firmware version. To update this information with the current module firmware version, we recommend taking a reading from the module as soon as it is added to the system, before moving on to the configuration of the programming parameters. The module firmware version is also displayed on the "Search modules" screen. ⚠ The availability of certain functions depends on the firmware version!

Module memory usage

USED MEMORY	the bar shows the amount of space used by the module as a percentage.

Advanced

MESSAGE RETRANSMISSION	this function can be used to resend the command in the event that the module under control does not respond. under normal conditions a single transmission is enough to control the output; if however the command is not received, the module will make a new attempt, up to a maximum of 3. we recommend that this function is always enabled to ensure greater security for the commands sent.
GROUP COMMAND RETRANSMISSION	this tick enables retransmission of a group command. Retransmission sends the group command 3 times. The group command has no status response, as it is not possible to indicate the status of several outputs. We recommend that this tick is always enabled if group commands are used across the system
OUTPUT STATUS RETRANSMISSION AFTER GROUP COMMAND	this tick box enables transmission, over the BUS, of the status of the outputs activated following a group command received by the module. We recommend enabling this tick when group commands have been programmed for the system and system managers (for example Planux Manager, Serial Bridge, etc...) are installed. This retransmission carried out by the module receiving the command, which may be sent with a maximum delay of 12 seconds, is important in order to update the status of the outputs on the system managers

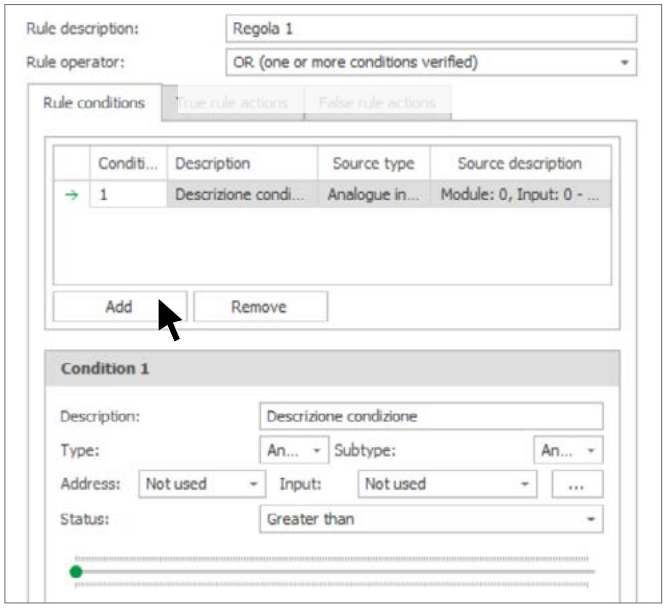
RULES

Rule is the action that must be carried out automatically when the ***conditions*** on the list arise;

Usage example:

You want to *activate* the output controlling the boiler when one of the outputs connected to the zone valve is active; you want to *deactivate* it when all the outputs controlling the zone valves are inactive.

To do so, a rule must be created with:
- OR operator
- as many conditions as there are solenoid valves, entering the ON status for each of the outputs
- set the boiler output activation command as *True rule action*
- set the boiler output deactivation command as *False rule action*



RULE DESCRIPTION	space to fill
RULE OPERATOR	AND: the command takes place automatically when all the conditions arise at the same time OR: the command takes place automatically when at least one (or more) of the conditions arises

Rule condition

depending on whether the AND or OR option is selected, the occurrence of one or more of the ***conditions*** will trigger the activation of the specified ***rule***.

CONDITION	enter one or more conditions by clicking *Add*; the conditions are numbered in progressive order.
DESCRIPTION	space to fill
TYPE	you can choose between: **DIGITAL I/O**, **ANALOG I/O, CLIMATE, OTHER RULE**
SUBTYPE	**DIGITAL INPUT / OUTPUT:** define the status of the digital input / output **ANALOGUE INPUT / OUTPUT:** define the greater than / less than *status* of a value read at the analogue input / output **TEMPERATURE VALUE:** define the greater than / less than *status* of a temperature **HUMIDITY VALUE:** define the more than / less than *status* of a humidity value **THERMOSTAT MODE:** define the operating mode of the thermostat **THERMOSTAT SEASON:** define the thermostat operation type **HUMIDITY SENSOR MODE:** define the humidity sensor operating mode **HUMIDITY SENSOR SEASON:** define the humidity sensor operating type **OTHER RULE:** select *Other rule* to add a previously created rule to the conditions
ADDRESS	enter the address of the target module
OUTPUTS	select, from those available, the outputs you wish to receive the command. **by pressing [...] you can select the ADDRESS and OUTPUTS of the MODULE through a graphic interface**
STATUS	you can choose between: **INPUT ON / OFF** **OUTPUT ON / OFF** **GREATER THAN / LESS THAN** **WINTER / SUMMER** **MANUAL / AUTOMATIC** **HUMIDIFIER / DEHUMIDIFIER**
TEMPERATURE / HUMIDITY	enter the temperature or humidity value

True rule action

True rule is the command that will be carried out automatically when the ***conditions*** on the list arise.

ACTION	enter one or more actions by clicking *Add;* the actions are numbered in progressive order
DESCRIPTION	space to fill

TARGET TYPE	**MODULE**: the module function is used to control one or more module outputs. When this option is selected, you must enter the number of the module and output(s) you wish to control. *This setting is also used to control an analogue output on a 20046810 module connected to a dimmer module. Also in this case, the address of the 20046810 module and the input number (1 or 2) will need to be entered* **GROUP**: this function allows you to command multiple outputs on different modules. This setting is used to send a command which switches off all the lights in an apartment or lowers all the blinds, etc... To do this, the outputs must be assigned to the same group on the output settings screen. *For example, if you want to control all the lights, one group (for example GROUP 1) must be assigned to all the outputs connected to the lights, and then an input set as GROUP in the TARGET TYPE field, entering GROUP 1* **SYSTEM MANAGER**: the system manager function sends a command directly to the system managers, for example: Icona Manager, Planux Manager, Serial Bridge, Minitouch. This command is used by the system managers to activate internally stored commands, or to use the input status for logic rules or other functions. *This setting is used if you want to activate a scenario that is stored on the Planux Manager, Minitouch, Bridge or Icona system manager.* **THERMOSTAT MODE:** this function can be used to send commands to a selected thermostat by choosing the operating type (heating/cooling) or the operating mode (automatic/manual) **HUMIDITY SENSOR MODE:** this function can be used to send commands to a humidity sensor by selecting the operating type (humidifier/dehumidifier) or the operating mode (automatic/manual)
COMMAND TYPE	**SET**: the module sends a "force ON" command and the output is then activated independently of the programming, remaining active until a new command is sent. The SET command does not affect outputs set as "Blind" and "Venetian blind". *For example, if you want to send an activation command to a group of lights, the SET command type must be set; this switches on any lights which are off and leaves those already switched on running. If a SET is sent to an output set as timed, the output is activated and will remain active until a new command is received* **RESET**: the module sends a "force OFF" command and the output is then deactivated independently of the programming, remaining inactive until a new command is sent. The RESET command does not affect outputs set as "Blind" or "Venetian blind". *For example, if you want to send a deactivation command to a group of lights, the RESET command type must be set; this switches off any lights which are on and leaves those already switched off inactive* **ACTIVATE/DEACTIVATE ANALOGUE OUTPUT**: this command activates/deactivates an analogue output at the last value set for that output. *For example, it can be used to activate the dimmer output of module 20046851* **SET ANALOGUE VALUE**: this command can be used to control an analogue output on a module. *For example, the output of dimmer 20046851, choosing also the value you wish to set.* **SET RGB COLOUR**: this command can be used to control an output of the module 20004600 configured as RGB to adjust the colour and brightness. **HEATING ON / HEATING OFF:** this command can be used to change the type of thermostat operation to on in winter or off in winter **COOLING ON / COOLING OFF:** this command can be used to change the type of thermostat operation to on in summer or off in summer **HUMIDIFIER ON / HUMIDIFIER OFF:** this command can be used to change the type of humidity sensor operation to humidifier on or humidifier off **DEHUMIDIFIER ON / DEHUMIDIFIER OFF:** this command can be used to change the type of humidity sensor operation to dehumidifier on or dehumidifier off **AUTOMATIC:** this command can be used to set the thermostat or humidity sensor to automatic mode **MANUAL:** this command can be used to set the thermostat or humidity sensor to manual mode, with the corresponding threshold as desired
ADDRESS	enter the address of the target module
INPUT / OUTPUT	select, from those available, the outputs you wish to receive the command **By pressing [...] you can select the ADDRESS and OUTPUTS of the MODULE through a graphic interface**
TEMPERATURE / HUMIDITY	enter the temperature or humidity value

Advanced

DELAY BETWEEN COMMANDS	Indicates the delay between the execution of one command, completed in an action associated with the rule, and the next

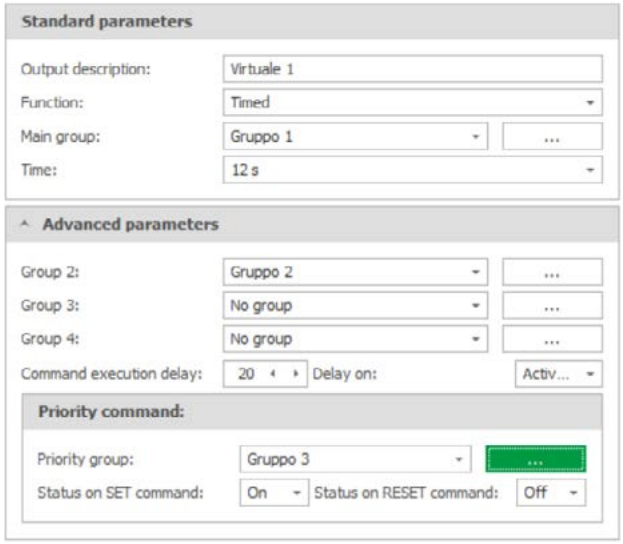
False rule action

False rule is the command carried out when the conditions on the list *cease* to occur.

(See Paragraph "True rule action" on page 56)

VIRTUAL OUTPUT

The virtual outputs can be set as though they were normal outputs to carry out rules using their status. They can also be controlled from other modules on the BUS.



Standard parameters

OUTPUT DESCRIPTION	enter a short description of the module to easily identify it within the project in future.
FUNCTION	**STEP BY STEP**: set this function to switch the output with a pulse at the configured input. This function allows control of the output using traditional buttons connected to the digital input. Every time the button is pressed and released the output inverts its status. The command is activated when the button is pressed, yet no command is carried out when it is released. If, for example, 2 buttons are used to control the same output set as bistable, the following applies: when the first button is pressed the output is activated, when the second button is pressed the output is deactivated. If you press and hold the first button the output is activated; if you continue to press and hold the first button and press the second button, the output is deactivated. **TIMED**: this option is used to connect timed procedures such as the stair light, outputs for the irrigation valve, a hallway light or other functions. When a button configured to control the timed output is pressed, the output is activated and then, once the time has elapsed, deactivated. When the output is set as TIMED, the activation time (in seconds) must be entered. If you enter a time of 0 seconds the output will be activated for 0.5 seconds, which is useful for the activation of an electric lock on a gate or other similar functions. To activate a timed output so that it switches off after the programmed time, the digital input configured for control must send a NORMAL command. If a RESET command is sent the output will be deactivated, whatever its condition at that moment. If a SET command is sent the output will be deactivated in any case at the end of the timed period. If a time of 0 seconds is set the output will be activated for 0.5 seconds. Reception of a NORMAL command resets the activation time on the timers.

MAIN GROUP	this function allows you to select a main group (from those available) to be associated with the output. **pressing [...] gives access to the group manager panel from which you can create or delete groups**
TIME	set the output time so that it corresponds to the activation time

Advanced parameters

GROUP 2 / 3 / 4	this function can be used to select other groups from those available to be coupled to the output in addition to the main group. **Pressing [...] gives access to the group manager panel from which you can create or delete groups.**
COMMAND EXECUTION DELAY	this command can be used to delay the execution of a received command by the output. *For example, if you set a delay of 4 seconds: the output will wait for 4 seconds following receipt of a command before executing it.*
DELAY ON	**ACTIVATION / DEACTIVATION / NOT USED:** can be used to set the action for which you want to add the command execution delay. For example, if you set *Delay* on *Activation*, the output will delay execution of the command received at the output at the moment of activation, while the output will not experience any delays in deactivation.

Priority command

PRIORITY GROUP	this function can be used to select a priority group (from those available) to be associated with the output. **pressing [...] gives access to the group manager panel from which you can create or delete groups**
STATUS ON SET COMMAND	this parameter can be used to determine how the output will behave when it receives a priority SET command, *for example an output controlling irrigation that must be* **activated** *or* **deactivated** *on receipt of a priority SET command and remain locked until receipt of a priority RESET command*
STATUS ON RESET COMMAND	this parameter can be used to determine how the output will behave when it receives a priority RESET command, *for example an output controlling irrigation that must be* **activated** *or* **deactivated** *on receipt of a priority RESET command*

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