



# MAXinBOX Hospitality

**Two/Four-Pipe fan Coil Controller with  
2 Digital Outputs and 6 Analogue/Digital Inputs**

**ZCL-HP126**

Application program version: [2.4]

User manual edition: [2.4]\_a

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## DOCUMENT UPDATES

Version	Changes	Page(s)
[2.4]_a	<p><b>Changes in the application program:</b></p> <ul style="list-style-type: none"> <li>• Update of the motion detector module.</li> <li>• Removal of the Shutter/Blind control module.</li> </ul>	-
[2.3]_a	<p><b>Changes in the application program:</b></p> <ul style="list-style-type: none"> <li>• Update of the Fan Coil module.</li> </ul>	-
	<p><b>Changes in the document:</b></p> <ul style="list-style-type: none"> <li>• Clarification about the behaviour of disabled outputs in Test On Mode.</li> </ul>	21
[2.2]_a	<p><b>Changes in the application program:</b></p> <ul style="list-style-type: none"> <li>• Update of the Logic Functions, Heartbeat, Binary Inputs, Individual Digital Outputs, Motion Detector, Temperature Probe and Fan Coil modules.</li> </ul>	-
[2.1]_a	<p><b>Changes in the application program:</b></p> <ul style="list-style-type: none"> <li>• Inclusion of the Heartbeat module.</li> <li>• Inclusion of the Shutter/Blind control module.</li> <li>• Update of the Logic Functions, Master Light Control and Motion Detector modules.</li> </ul>	-
[2.0]_a	<p><b>Changes in the application program:</b></p> <ul style="list-style-type: none"> <li>• Three-point valve control.</li> <li>• New general status object in the Master Light module.</li> <li>• Possibility of controlling a third individual output.</li> <li>• Optimisation of the manual control function.</li> </ul>	-

# 1 INTRODUCTION

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## 1.1 MAXinBOX HOSPITALITY

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MAXinBOX Hospitality from Zennio is a versatile KNX multi-function actuator destined to cover the climate control needs in KNX environments with integrated **fan coil units** where both the fan speed and the opening of the water pipe valves are controlled by relays.

At a glance, the most outstanding features of MAXinBOX Hospitality are:

- **2 multi-purpose relay outputs**, configurable as:
  - Up to two binary outputs.  
  
***Note:** if a four-pipe fan coil with a three-point valve is configured, these two outputs are used to control the valve.*
- **2 relay outputs to control one three-point valve or up to two on-off valves.**  
One of these outputs can also be configured as an additional **multi-purpose relay output** (in this case, for non-capacitive loads) in case it is not necessary for the fan coil control.
- **3 relay outputs to control up to three fan levels.**
- **6 multi-purpose inputs**, each of them configurable as:
  - Temperature probe,
  - Binary input (i.e., pushbuttons, switches, sensors),
  - Motion detector.
- **10 customisable, multi-operation logic functions.**
- **Master light control** for an easy, out-of-the-box control of a set of luminaires (or functionally equivalent devices) one of which acts as a general lamp and the others as secondary lamps.
- **Manual operation / supervision** of the relay outputs through the on-board pushbuttons and LEDs.
- **Heartbeat** or periodical “still-alive” notification.

## 1.2 START-UP AND POWER LOSS

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During the device start-up, the Prog./Test LED will **blink in blue colour** for a few seconds before MAXinBOX Hospitality is ready. External orders will not be executed during this time, but afterwards.

Depending on the configuration, **some specific actions** will also be performed **during the start-up**. For example, the integrator can set whether the output channels should switch to a particular state and whether the device should send certain objects to the bus after the power recovery. Please consult the next sections of this document for further details.

On the other hand, when **a bus power failure** takes place, MAXinBOX Hospitality will interrupt any pending actions, and **will save its state** so it can be recovered once the power supply is restored. In addition, the individual outputs will switch to the specific state configured in parameters.

## 1.3 STATUS INDICATORS

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Each of the outputs of MAXinBOX Hospitality incorporates a light indicator that reflects its current state.

### 1.3.1 BINARY OUTPUTS

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If an output is configured as **binary**, the LED indicator will only be on while the relay remains closed. Otherwise, it remains off.

Please refer to section 2.3 for details about the relay outputs.

### 1.3.2 FAN COIL CONTROL OUTPUTS (VALVE / FAN)

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Regarding the **valve control outputs**, the LED indicator of each output will behave analogously as the LEDs of the binary outputs: it will remain off while the corresponding valve is closed and on while the corresponding valve is open.

Regarding the **fan control outputs**, the two LED indicators provide information about the current fan speed level:

- Fan switched off: both LEDs off.

- Fan at speed level 1: both LEDs blinking every 1 second.
- Fan at speed level 2: both LEDs blinking every 0.5 seconds.
- Fan at speed level 3: both LEDs steadily on.

In case **less than three different speed levels** have been parameterised, the LEDs will stay steadily on while the fan is at the maximum level (e.g., level 2), and as described above for the lower levels (e.g., levels 1 and off).

Please refer to section 2.4 for details about the fan coil control outputs.

## 2 CONFIGURATION

### 2.1 GENERAL

After importing the corresponding database in ETS and adding the device into the topology of the desired project, the configuration process begins by entering the Parameters tab of the device.

#### ETS PARAMETERISATION

From the “**General**” tab it is possible to mark/unmark the appropriate checkboxes to enable the required functionality. The only one active by default is “**Manual Control**” (see section 2.7), thus the corresponding tab will also be available from the beginning in the tab tree on the left.

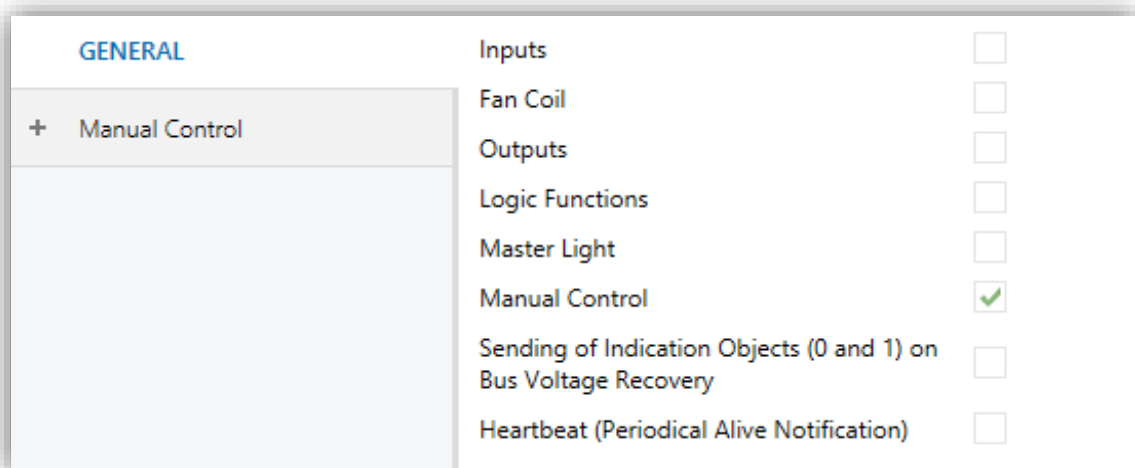
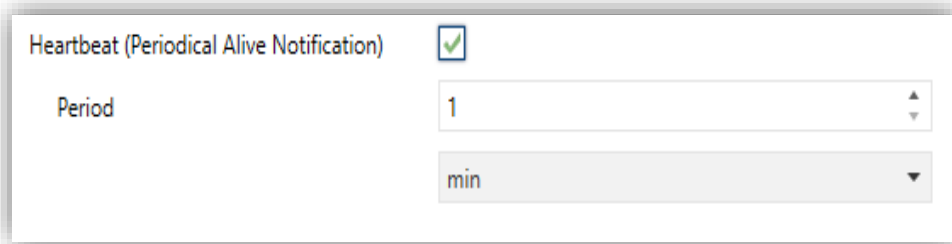


Figure 1 General screen.

- Once activated, **Inputs**, **Binary Outputs**, **Fan Coil**, **Logical Functions**, **Manual Control** (enabled by default) and **Master Light** bring additional tabs to the menu on the left. These functions and their parameters will be explained in later sections of this document.
- **Sending of Indication Objects (0 and 1) on Bus Voltage Recovery**: this parameter lets the integrator activate two new communication objects (“**Reset 0**” and “**Reset 1**”), which will be sent to the KNX bus with values “0” and “1” respectively whenever the device begins operation (for example, after a bus power failure). It is possible to parameterise a certain **delay** to this sending (0 to 255 seconds).

- **Heartbeat (Periodical Alive Notification):** lets the integrator incorporate a one-bit object to the project (“**[Heartbeat] Object to Send ‘1’**”) that will be sent periodically with value “1” to notify that the device is still working (*still alive*).



The screenshot shows a configuration window for 'Heartbeat (Periodical Alive Notification)'. At the top left, the title is 'Heartbeat (Periodical Alive Notification)' with a green checkmark icon to its right. Below this, there is a label 'Period' followed by a dropdown menu showing the value '1'. Underneath the dropdown is another dropdown menu showing the unit 'min'.

**Figure 2.** Heartbeat (Periodical Alive Notification).

**Note:** *The first sending after download or bus failure takes place with a delay of up to 255 seconds, to prevent bus overload. The following sendings match the period set.*

## 2.2 INPUTS

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MAXinBOX Hospitality incorporates **6 analogue/digital inputs**. Each one has three possible configurations, which are explained below.

### 2.2.1 BINARY INPUT

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Configuration for the connection of a pushbutton or a switch/sensor. Please refer to the “**Binary Inputs**” user manual, available under the product section at [www.zennio.com](http://www.zennio.com).

### 2.2.2 TEMPERATURE PROBE

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Configuration for the connection of a temperature sensor from Zennio. Please refer to the “**Temperature Probe**” user manual, available under the product section at [www.zennio.com](http://www.zennio.com).

### 2.2.3 MOTION DETECTOR

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Configuration for the connection of a motion detector. It is possible to connect motion detectors from Zennio. Please refer to the “**Motion Detector**” user manual, available under the product section at [www.zennio.com](http://www.zennio.com), for detailed information about the functionality and the configuration of the related parameters.

## 2.3 OUTPUTS

MAXinBOX Hospitality incorporates **two relay outputs**, which can be configured in parameters as individual **binary outputs** to control up to **two different loads**.

Moreover, in case the fan coil module remains disabled (see section 2.4) or is configured to control a two-pipe fan coil unit consisting of a sole on-off valve, it is possible to configure one of the two valve control relay outputs (V2) as a **third multi-purpose binary output**, although not valid to control capacitive loads.

### PARAMETERISATION

When the Outputs function has been activated in the “**General**” parameter screen, the “**Outputs**” section will be available in the tree on the left, containing itself a tab named “**Configuration**”.

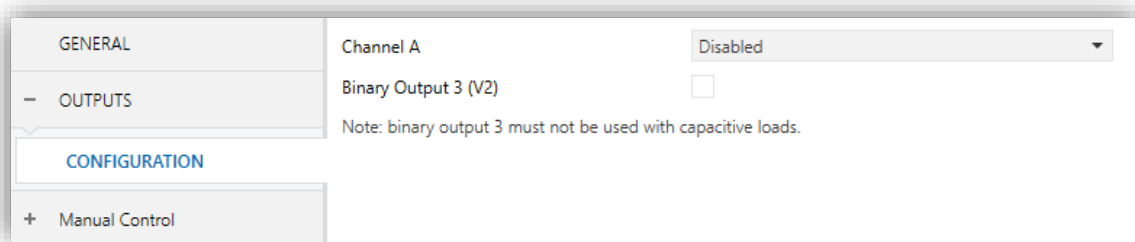


Figure 3 Outputs - Configuration

Channel A can be configured through the drop-down list as two independent **binary outputs**. **Binary output V2** will also be available for configuration once the Fancoil function has been disabled. According to the above configuration, new entries will be incorporated into the tab tree.

For detailed information about the functionality and the configuration of the related parameters, please refer to the specific manuals for **Individual outputs**, available in the MAXinBOX Hospitality product section at the Zennio homepage ([www.zennio.com](http://www.zennio.com)).

## 2.4 FAN COIL

MAXinBOX Hospitality incorporates one **fan coil control module**, which will be responsible for operating the relays that open and close the water pipe valves (either one three-point valve or up to two on-off valves), and the relays that set the fan speed level. The latter can be achieved through **relay accumulation** (more relays closed means a higher fan speed) or through **relay commutation** (one specific relay will be available per level), depending on the configuration. The relays distribution for the valves control is shown in the following table for every possible parameterisation:

Number of pipes	Valve type	Output	Action
4	On / Off	Output V1	Cooling Valve
		Output V2	Heating Valve
	Three-point	Output V1	Opening Cooling Valve
		Output V2	Closing Cooling Valve
		Output 1	Opening Heating Valve
		Output 2	Closing Heating Valve
2	On / Off	Output V1	Cooling and/or Heating Valve
	Three-point	Output V1	Opening Valve for both modes
		Output V2	Closing Valve for both modes

**Table 1** Actions performed by the binary outputs associated to the valve control.

For a detailed description of these functions and on their configuration, please refer to the specific manual "**Relays Fan Coil**", available under the MAXinBOX Hospitality product section at [www.zennio.com](http://www.zennio.com).

## 2.5 LOGIC FUNCTIONS

This module makes it possible to perform numeric and binary operations to incoming values received from the KNX bus, and to send the results through other communication objects specifically enabled for this purpose.

MAXinBOX Hospitality allows enabling and fully customising up to **ten different logic functions** with their corresponding input objects, whose size can be 1 bit, 1 byte, 2 bytes or 4 bytes.

The execution of each function can depend on a configurable **condition**, which will be evaluated every time the function is **triggered** through specific, parameterisable communication objects. The result after executing the operations of the function can also be evaluated according to certain **conditions** and afterwards sent (or not) to the KNX bus, which can be done every time the function is executed, periodically or only when the result differs from the last one.

For detailed information about the functionality and the configuration of the related parameters, please refer to the specific manual “**Logic Functions**” available under the MAXinBOX Hospitality product section at the [www.zennio.com](http://www.zennio.com) website.

## 2.6 MASTER LIGHT

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The Master Light function brings the option to monitor the state of up to 12 light sources (or even more, if the Master Light controls from multiple Zennio devices are linked together) or of any other elements whose state is transmitted through a binary object and, depending on those states, perform a **master order** every time a certain trigger signal (again, a binary value) is received through a specific object.

Such master order will consist in:

- A **general switch-off** order, if at least one of the up to twelve status objects is found to be on.
- A **courtesy switch-on** order, if none of the up to twelve status objects is found to be on.

Note that the above switch-off and switch-on orders are not necessarily a binary value being sent to the bus – it is up to the integrator the decision of what to send to the KNX bus in both cases: a thermostat setpoint or mode switch order, a constant value, a scene... Only the trigger object and the twelve status objects are required to be binary (on/off).

The most typical scenario for this Master Light control would be a hotel room with a master pushbutton next to the door. When leaving the room, the guest will have the possibility of pressing on the master pushbutton and make all the lamps turn off together. Afterwards, back on the room and with all the lamps off, pressing on the same master pushbutton will only make a particular lamp turn on (e.g., the closest lamp to the door) – this is the courtesy switch-on.

Besides, it is possible to concatenate two or more Master Light modules by means of a specific communication object which represents the general state of the light sources of each module. Thereby, it is possible to expand the number of light sources by considering the general state of one module as an additional light source for another.

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## ETS PARAMETERISATION

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Once the Master Light function has been enabled, a specific tab will be included in the menu on the left. This new parameter screen () contains the following options:

- **Number of State Objects:** defines the number of 1-bit status objects required. The minimum (and default) value is “1”, and the maximum is “12”. These objects are called “[ML] Status Object *n*”.

In addition, the general status object (“[ML] General status”) will always be available in the project topology. It will be sent to the bus with a value of “1” whenever there is at least one of the above state objects with such value. Otherwise (i.e., if none of them has a value of “1”), it will be sent with a value of “0”.

- **Trigger Value:** sets the value (“0”, “1” or “0/1”, being the latter the default option) that will trigger, when received through “[ML] Trigger”, the master action (the general switch-off or the courtesy switch-on).

- **General Switch-Off.**

- **Delay:** defines a certain delay (once the trigger has been received) before the execution of the general switch-off. The allowed range is 0 to 255 seconds.
- **Binary Value:** if checked, object “[ML] General Switch-off: Binary Object” will be enabled, which will send one “0” whenever the general switch-off takes off.
- **Scaling:** if checked, object “[ML] General Switch-off: Scaling” will be enabled, which will send a percentage value (configurable in “Value”) whenever the general switch-off takes off.
- **Scene:** if checked, object “[ML] General Switch-off: Scene” will be enabled, which will send a scene run / save order (configurable in “Action” and “Scene Number”) whenever the general switch-off takes off

- **HVAC:** if checked, object “[ML] General Switch-off: HVAC mode” will be enabled, which will send an HVAC thermostat mode value (configurable in “Value”, being the options “Auto”, “Comfort”, “Standby”, “Economy” and “Building Protection”) whenever the general switch-off takes off

**Note:** the above options are not mutually exclusive; it is possible to send values of different nature together.

● **Courtesy Switch-On:**

The parameters available here are entirely analogous to those already mentioned for General Switch-Off. However, in this case the names of the objects start with “[ML] Courtesy Switch-On (...)”. On the other hand, sending **scene save orders** is not possible for the courtesy switch-on (only orders to play scenes are allowed).

**Note:** object “[ML] Courtesy Switch-On: Binary Object” sends the value “1” (when the courtesy switch-on takes place), in contrast to object “[ML] General Switch-Off: Binary Object”, which sends the value “0” (during the general switch-off, as explained above).

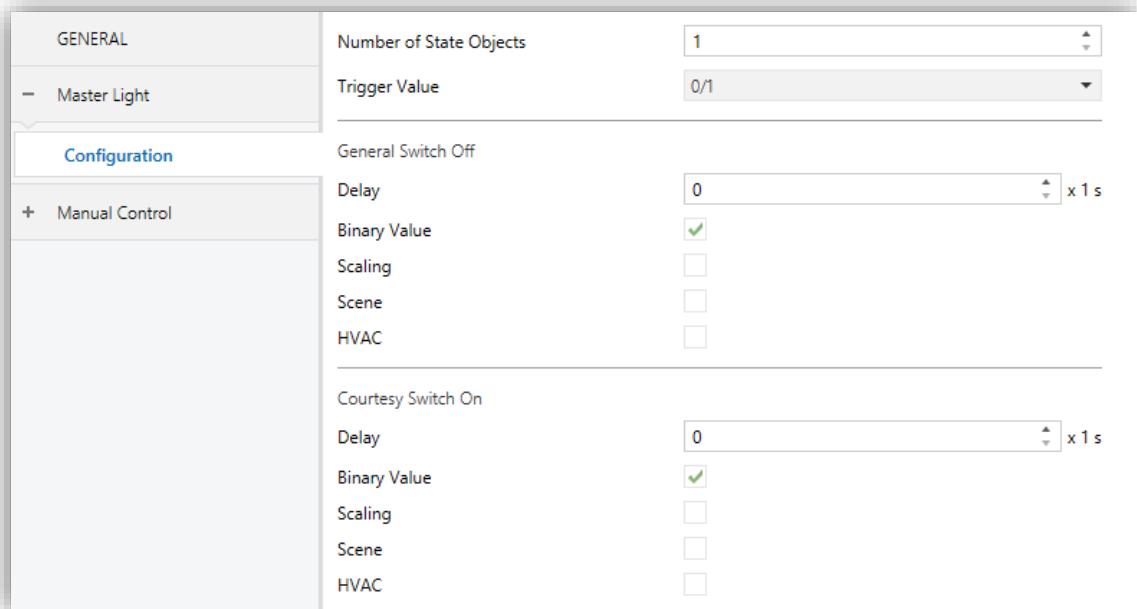


Figure 4 Master Light

## 2.7 MANUAL CONTROL

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MAXinBOX Hospitality allows manually switching the state of its output relays through the respective pushbuttons on the top of the device. A specific pushbutton is therefore available per output.

Manual operation can be done in two different ways, named as **Test On Mode** (for testing purposes during the configuration of the device) and **Test Off Mode** (for a normal use, anytime). Whether both, only one, or none of these modes should be accessible needs to be parameterised in ETS. Moreover, it is possible to enable a specific binary object **for locking and unlocking the manual control** in runtime.

### Notes:

- *The available control modes (Test On / Test Off) and the lock object can be enabled and disabled in MAXinBOX Hospitality **independently for the relay outputs (binary) and for the fan coil outputs (valves and fan)**.*
- *The **Test Off mode** will be active (unless it has been disabled by parameter) after a download or a reset with no need of a specific activation – the pushbuttons will respond to user presses from the start.*
- *On the contrary, switching to the **Test On mode** (unless disabled by parameter) needs to be done by long-pressing the Prog./Test button (for at least three seconds), until the LED is no longer red and turns yellow. From that moment, once the button is released, the LED light will remain green to confirm that the device has switched from the Test Off mode to the Test On mode. After that, an additional press will turn the LED yellow and then off, once the button is released. This way, the device leaves the Test On mode. Note that it will also leave this mode if a bus power failure takes place.*

**Important:** *This device is delivered from factory with the Test On and Test Off modes **already enabled in parameters** for all outputs.*

### Test Off Mode

Under the Test Off Mode, the outputs can be controlled through both their communication objects and the actual pushbuttons located on the top of the device.

When one of these buttons is pressed, the output will behave as if an order had been received through the corresponding communication object, so it has no effect if the

output is locked or under alarm status. The status objects of the different functions will still be sent in the usual way.

The action performed depends on the output type.

- **Individual output:** a simple press (short or long) will make the output (if enabled in parameters) switch its on-off state. This will be reported to the KNX bus through the corresponding status object, if enabled.
- **Fan:** a simple press (short or long) implies an increase or decrease of the fan speed (provided that the fan coil has been enabled in parameters), depending on the button pressed. This action will depend on the fan type (relay accumulation / relay commutation), the control type (cyclical or non-cyclical) and the minimum switch time configured. In particular:
  - If the fan is already at the maximum speed level, a further increase will have no effect (in case of a non-cyclical control) or will switch back to the minimum level (in case of a cyclical control).
  - If the fan is already at the minimum speed level, a further decrease will have no effect (in case of a non-cyclical control) or will switch back to the maximum level (in case of a cyclical control).
- **Valve:** a simple press (short or long) will make the valve switch its open/closed state, provided that the fan coil has been enabled in parameters. In case the fan coil control type has been configured in parameters as "applied to the fan" (instead of "applied to the valve"), this may also imply:
  - **A switch-on of the fan**, if it is found to be stopped and the valve opens, provided that the desired fan speed is other than zero.
  - **A switch-off of the fan**, if it is found to be in motion and the valve closes, provided that the current mode is Heating (under Cooling, the fan will remain as is).
- **Disabled output:** outputs disabled in parameters will not react to button presses under the Test Off mode.

Regarding the lock, timer, alarm and scene functions, the device will behave as usual under the Test Off mode. Button presses during this mode are entirely analogous to the reception of the corresponding orders from the KNX bus.

## Test On Mode

After entering the Test On mode, it will only be possible to control the outputs through the on-board pushbuttons. Orders received through communication objects will be ignored, with independence of the output they are addressed to.

On the other hand, to prevent interference with the normal operation and since the Test On mode is intended for testing, once the device leaves the Test On mode it will **switch back to its previous state**.

Depending on the parameterisation of the output, the reactions to the button presses will differ.

- **Individual outputs:** short or long pressing the button will commute the on-off state of the relay.
- **Fan:** a simple press (short or long) implies an increase or decrease of the fan speed, depending on the button pressed.
  - In case the fan coil module is **disabled in parameters**, it will work as non-cyclical and through relay switching (with a 0.3 s delay).
  - In **any other case**, the Test On mode will still respect the cyclical / non-cyclical configuration, and the relay management type parameterised.
- **Valves:** a simple press (short or long) will make the valve switch its open/closed state. The behaviour is analogous as for the Test Off mode, although both valves will be controllable in Test On even if not enabled in parameters.
- **Disabled outputs:** under the Test On mode, short and long presses will cause the same effect for disabled outputs (i.e., the relay will switch its state until the button is released and only one relay per group is allowed to be closed).

The lock, timer, alarm and scene functions will not work while the device is under the Test On mode. Status objects will not be sent to the bus, either. However, alarms and lock orders received during the Test On mode will be taken into account once the device leaves this mode.

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### ETS PARAMETERISATION

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The **Manual Control** is configured from a specific tab which can be enabled from the “General” screen (see section 2.1).

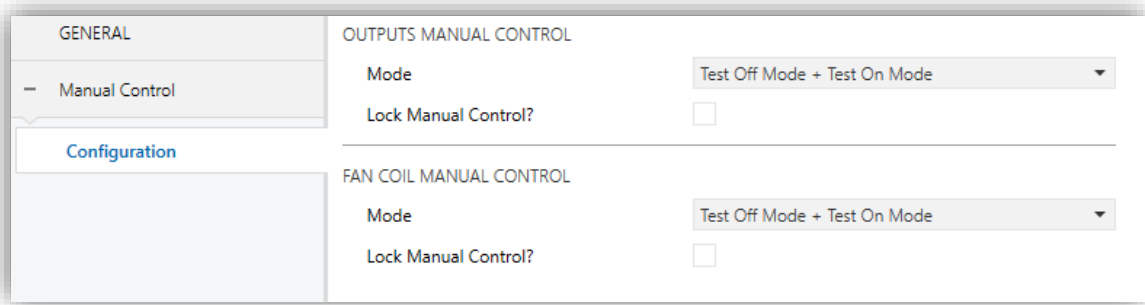


Figure 5 Manual Control

The parameters available in this screen are grouped into two sections, as it is possible to **configure independently the behaviour of the Manual Control for both**, the *fan coil* and the individual binary outputs:

- **Mode:** options are “Disabled”, “Only Test Mode Off”, “Only Test Mode On” and “Test Mode Off + Test Mode On” (default).

Depending on the selection, the device will permit using the manual control under the Test Off, the Test On, or both modes. Note that, as stated before, using the Test Off mode does not require any special action, while switching to the Test On mode does require long-pressing the Prog./Test button.

- **Lock Manual Control:** unless the above parameter has been set to “Disabled”, enabling the Lock Manual Control parameter will provide a runtime procedure for locking the manual control. When this checkbox is enabled, object **“Manual Control Lock”** turns visible, as well as two more parameters:
  - **Value:** defines whether the lock/unlock of the manual control should take place respectively upon the reception (through the aforementioned object) of values “0” and “1”, or the opposite.
  - **Initialisation:** sets how the manual control should remain after the device start-up (after an ETS download or a bus power failure): “Unlocked”, “Locked” or by default, “Last Value” (unlocked after the first start-up).

## ANNEX I. COMMUNICATION OBJECTS

- “Functional range” shows the values that, with independence of any other values permitted by the bus according to the object size, may be of any use or have a particular meaning because of the specifications or restrictions from both the KNX standard or the application program itself.

Number	Size	I/O	Flags	Data type (DPT)	Functional Range	Name	Function
1	1 Bit	O	C--T-	DPT_Trigger	0/1	Reset 0	Voltage Recovery -> Sending of 0
2	1 Bit	O	C--T-	DPT_Trigger	0/1	Reset 1	Voltage Recovery -> Sending of 1
3	1 Bit	I	C-W--	DPT_Enable	0/1	Lock Manual Control (Outputs)	0 = Lock; 1 = Unlock
	1 Bit	I	C-W--	DPT_Enable	0/1	Lock Manual Control (Outputs)	0 = Unlock; 1 = Lock
4	1 Bit	I	C-W--	DPT_Enable	0/1	Lock Manual Control (Fan Coil)	0 = Unlock; 1 = Lock
	1 Bit	I	C-W--	DPT_Enable	0/1	Lock Manual Control (Fan Coil)	0 = Lock; 1 = Unlock
5, 9, 13, 17, 21, 25	2 Bytes	O	CR-T-	DPT_Value_Temp	-273.00° - 670433.28°	[Ix] Current Temperature	Temperature Sensor Value
6, 10, 14, 18, 22, 26	1 Bit	O	CR-T-	DPT_Alarm	0/1	[Ix] Overcooling	0 = No Alarm; 1 = Alarm
7, 11, 15, 19, 23, 27	1 Bit	O	CR-T-	DPT_Alarm	0/1	[Ix] Overheating	0 = No Alarm; 1 = Alarm
8, 12, 16, 20, 24, 28	1 Bit	O	CR-T-	DPT_Alarm	0/1	[Ix] Probe Error	0 = No Alarm; 1 = Alarm
29, 35, 41, 47, 53, 59	1 Bit	I	C-W--	DPT_Enable	0/1	[Ix] Input Lock	0 = Unlock; 1 = Lock
30, 36, 42, 48, 54, 60	1 Bit	O	C--T-	DPT_Switch	0/1	[Ix] [Short Press] 0	Sending of 0
	1 Bit	O	C--T-	DPT_Switch	0/1	[Ix] [Short Press] 1	Sending of 1
	1 Bit	I	C-WT-	DPT_Switch	0/1	[Ix] [Short Press] 0/1 Switching	Switching 0/1
	1 Bit	O	C--T-	DPT_UpDown	0/1	[Ix] [Short Press] Move Up Shutter	Sending of 0 (Up)
	1 Bit	O	C--T-	DPT_UpDown	0/1	[Ix] [Short Press] Move Down Shutter	Sending of 1 (Down)
	1 Bit	O	C--T-	DPT_UpDown	0/1	[Ix] [Short Press] Move Up/Down Shutter	Switching 0/1 (Up/Down)
	1 Bit	O	C--T-	DPT_Step	0/1	[Ix] [Short Press] Stop/Step Up Shutter	Sending of 0 (Stop/Step Up)
	1 Bit	O	C--T-	DPT_Step	0/1	[Ix] [Short Press] Stop/Step Down Shutter	Sending of 1 (Stop/Step Down)
	1 Bit	O	C--T-	DPT_Step	0/1	[Ix] [Short Press] Stop/Step Shutter (Switched)	Switching of 0/1 (Stop/Step Up/Down)
	4 Bit	O	C--T-	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Short Press] Brighter	Increase Brightness
	4 Bit	O	C--T-	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Short Press] Darker	Decrease Brightness

	4 Bit	O	C--T-	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Short Press] Brighter/Darker	Switch Bright/Dark
	1 Bit	O	C--T-	DPT_Switch	0/1	[Ix] [Short Press] Light On	Sending of 1 (On)
	1 Bit	O	C--T-	DPT_Switch	0/1	[Ix] [Short Press] Light Off	Sending of 0 (Off)
	1 Bit	I	C-WT-	DPT_Switch	0/1	[Ix] [Short Press] Light On/Off	Switching 0/1
	1 Byte	O	C--T-	DPT_SceneControl	0-63; 128-191	[Ix] [Short Press] Run Scene	Sending of 0 - 63
	1 Byte	O	C--T-	DPT_SceneControl	0-63; 128-191	[Ix] [Short Press] Save Scene	Sending of 128 - 191
	1 Bit	I/O	CRWT-	DPT_Switch	0/1	[Ix] [Switch/Sensor] Edge	Sending of 0 or 1
	1 Byte	O	C--T-	DPT_Value_1_Ucount	0 - 255	[Ix] [Short Press] Constant Value (Integer)	0 - 255
	1 Byte	O	C--T-	DPT_Scaling	0% - 100%	[Ix] [Short Press] Constant Value (Percentage)	0% - 100%
	2 Bytes	O	C--T-	DPT_Value_2_Ucount	0 - 65535	[Ix] [Short Press] Constant Value (Integer)	0 - 65535
2 Bytes	O	C--T-	9.xxx	-671088.64 - 670433.28	[Ix] [Short Press] Constant Value (Float)	Float Value	
31, 37, 43, 49, 55, 61	1 Byte	I	C-W--	DPT_Scaling	0% - 100%	[Ix] [Short Press] Shutter Status (Input)	0% = Top; 100% = Bottom
	1 Byte	I	C-W--	DPT_Scaling	0% - 100%	[Ix] [Short Press] Dimming Status (Input)	0% - 100%
32, 38, 44, 50, 56, 62	1 Bit	O	C--T-	DPT_Switch	0/1	[Ix] [Long Press] 0	Sending of 0
	1 Bit	O	C--T-	DPT_Switch	0/1	[Ix] [Long Press] 1	Sending of 1
	1 Bit	I	C-WT-	DPT_Switch	0/1	[Ix] [Long Press] 0/1 Switching	Switching 0/1
	1 Bit	O	C--T-	DPT_UpDown	0/1	[Ix] [Long Press] Move Up Shutter	Sending of 0 (Up)
	1 Bit	O	C--T-	DPT_UpDown	0/1	[Ix] [Long Press] Move Down Shutter	Sending of 1 (Down)
	1 Bit	O	C--T-	DPT_UpDown	0/1	[Ix] [Long Press] Move Up/Down Shutter	Switching 0/1 (Up/Down)
	1 Bit	O	C--T-	DPT_Step	0/1	[Ix] [Long Press] Stop/Step Up Shutter	Sending of 0 (Stop/Step Up)
	1 Bit	O	C--T-	DPT_Step	0/1	[Ix] [Long Press] Stop/Step Down Shutter	Sending of 1 (Stop/Step Down)
	1 Bit	O	C--T-	DPT_Step	0/1	[Ix] [Long Press] Stop/Step Shutter (Switched)	Switching of 0/1 (Stop/Step Up/Down)
	4 Bit	O	C--T-	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Long Press] Brighter	Long Pr. -> Brighter; Release -> Stop
	4 Bit	O	C--T-	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Long Press] Darker	Long Pr. -> Darker; Release -> Stop
	4 Bit	O	C--T-	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Long Press] Brighter/Darker	Long Pr. -> Brighter/Darker; Release -> Stop

	1 Bit	O	C--T-	DPT_Switch	0/1	[Ix] [Long Press] Light On	Sending of 1 (On)
	1 Bit	O	C--T-	DPT_Switch	0/1	[Ix] [Long Press] Light Off	Sending of 0 (Off)
	1 Bit	I	C-WT-	DPT_Switch	0/1	[Ix] [Long Press] Light On/Off	Switching 0/1
	1 Byte	O	C--T-	DPT_SceneControl	0-63; 128-191	[Ix] [Long Press] Run Scene	Sending of 0 - 63
	1 Byte	O	C--T-	DPT_SceneControl	0-63; 128-191	[Ix] [Long Press] Save Scene	Sending of 128 - 191
	1 Bit	O	CR-T-	DPT_Alarm	0/1	[Ix] [Switch/Sensor] Alarm: Breakdown or Sabotage	1 = Alarm; 0 = No Alarm
	2 Bytes	O	C--T-	9.xxx	-671088.64 - 670433.28	[Ix] [Long Press] Constant Value (Float)	Float Value
	2 Bytes	O	C--T-	DPT_Value_2_Ucount	0 - 65535	[Ix] [Long Press] Constant Value (Integer)	0 - 65535
	1 Byte	O	C--T-	DPT_Scaling	0% - 100%	[Ix] [Long Press] Constant Value (Percentage)	0% - 100%
	1 Byte	O	C--T-	DPT_Value_1_Ucount	0 - 255	[Ix] [Long Press] Constant Value (Integer)	0 - 255
33, 39, 45, 51, 57, 63	1 Bit	O	C--T-	DPT_Trigger	0/1	[Ix] [Long Press/Release] Stop Shutter	Release -> Stop Shutter
34, 40, 46, 52, 58, 64	1 Byte	I	C-W--	DPT_Scaling	0% - 100%	[Ix] [Long Press] Dimming Status (Input)	0% - 100%
	1 Byte	I	C-W--	DPT_Scaling	0% - 100%	[Ix] [Long Press] Shutter Status (Input)	0% = Top; 100% = Bottom
65	1 Byte	I	C-W--	DPT_SceneNumber	0 - 63	[Motion Detector] Scene Input	Scene Value
66	1 Byte	O	C--T-	DPT_SceneControl	0-63; 128-191	[Motion Detector] Scene Output	Scene Value
67, 101, 135, 169, 203, 237	1 Byte	O	CR-T-	DPT_Scaling	0% - 100%	[Ix] Luminosity	0-100%
68, 102, 136, 170, 204, 238	1 Bit	O	CR-T-	DPT_Alarm	0/1	[Ix] Open Circuit Error	0 = No Error; 1 = Open Circuit Error
69, 103, 137, 171, 205, 239	1 Bit	O	CR-T-	DPT_Alarm	0/1	[Ix] Short Circuit Error	0 = No Error; 1 = Short Circuit Error
70, 104, 138, 172, 206, 240	1 Byte	O	CR-T-	DPT_Scaling	0% - 100%	[Ix] Presence State (Scaling)	0-100%
71, 105, 139, 173, 207, 241	1 Byte	O	CR-T-	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Ix] Presence State (HVAC)	Auto, Comfort, Standby, Economy, Building Protection
72, 106, 140, 174, 208, 242	1 Bit	O	CR-T-	DPT_Switch	0/1	[Ix] Presence State (Binary)	Binary Value
	1 Bit	O	CR-T-	DPT_Start	0/1	[Ix] Presence: Slave Output	1 = Motion Detected
73, 107, 141, 175, 209, 243	1 Bit	I	C-W--	DPT_Window_Door	0/1	[Ix] Presence Trigger	Binary Value to Trigger the Presence Detection
74, 108, 142, 176, 210, 244	1 Bit	I	C-W--	DPT_Start	0/1	[Ix] Presence: Slave Input	0 = Nothing; 1 = Detection from slave device
75, 109, 143, 177, 211, 245	2 Bytes	I/O	CRW--	DPT_TimePeriodSec	0 - 65535	[Ix] Presence: Waiting Time	0-65535 s.

76, 110, 144, 178, 212, 246	2 Bytes	I/O	<b>CRW--</b>	DPT_TimePeriodSec	0 - 65535	[Ix] Presence: Listening Time	1-65535 s.
77, 111, 145, 179, 213, 247	2 Bytes	I/O	<b>CRW--</b>	DPT_TimePeriodMin	0 - 65535	[Ix] Presence: Safety Time	0-1440 min.
78, 112, 146, 180, 214, 248	1 Byte	I/O	<b>CRW--</b>	DPT_Value_1_Ucount	0 - 255	[Ix] Presence: Filter Detections Number	2-5
79, 113, 147, 181, 215, 249	1 Byte	I/O	<b>CRW--</b>	DPT_Value_1_Ucount	0 - 255	[Ix] Presence: Filter Detection Window	15-60 s.
80, 114, 148, 182, 216, 250	1 Bit	I	<b>C-W--</b>	DPT_Enable	0/1	[Ix] Presence: Enable	According to parameters
81, 115, 149, 183, 217, 251	1 Bit	I/O	<b>CRW--</b>	DPT_DayNight	0/1	[Ix] Presence: Day/Night	According to parameters
82, 116, 150, 184, 218, 252	1 Bit	O	<b>CR-T-</b>	DPT_Occupancy	0/1	[Ix] Presence: Occupancy State (Master Output)	0 = Not Occupied; 1 = Occupied
	1 Bit	I	<b>C-W--</b>	DPT_Occupancy	0/1	[Ix] Presence: Occupancy State (Master Input)	0 = Not Occupied; 1 = Occupied
83, 117, 151, 185, 219, 253	1 Bit	I	<b>C-W--</b>	DPT_Switch	0/1	[Ix] Presence: Access Guest/Employee	0 = Guest; 1 = Employee
	1 Bit	I	<b>C-W--</b>	DPT_Switch	0/1	[Ix] Presence: Access Guest/Employee	0 = Employee; 1 = Guest
84, 118, 152, 186, 220, 254	1 Bit	I	<b>C-W--</b>	DPT_Bool	0/1	[Ix] Presence: Sold/Unsold Room	0 = Unsold; 1 = Sold
	1 Bit	I	<b>C-W--</b>	DPT_Bool	0/1	[Ix] Presence: Sold/Unsold Room	0 = Sold; 1 = Unsold
85, 119, 153, 187, 221, 255	1 Bit	I	<b>C-W--</b>	DPT_Start	0/1	[Ix] External Motion Detection	0 = Nothing; 1 = Motion detected by an external sensor
86, 91, 96, 120, 125, 130, 154, 159, 164, 188, 193, 198, 222, 227, 232, 256, 261, 266	1 Byte	O	<b>CR-T-</b>	DPT_Scaling	0% - 100%	[Ix] [Cx] Detection State (Scaling)	0-100%
87, 92, 97, 121, 126, 131, 155, 160, 165, 189, 194, 199, 223, 228, 233, 257, 262, 267	1 Byte	O	<b>CR-T-</b>	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Ix] [Cx] Detection State (HVAC)	Auto, Comfort, Standby, Economy, Building Protection
88, 93, 98, 122, 127, 132, 156, 161, 166, 190, 195, 200, 224, 229, 234, 258, 263, 268	1 Bit	O	<b>CR-T-</b>	DPT_Switch	0/1	[Ix] [Cx] Detection State (Binary)	Binary Value
89, 94, 99, 123, 128, 133, 157, 162, 167, 191, 196, 201, 225, 230, 235, 259, 264, 269	1 Bit	I	<b>C-W--</b>	DPT_Enable	0/1	[Ix] [Cx] Enable Channel	According to parameters
90, 95, 100, 124, 129, 134, 158, 163, 168, 192, 197, 202, 226, 231, 236, 260, 265, 270	1 Bit	I	<b>C-W--</b>	DPT_Switch	0/1	[Ix] [Cx] Force State	0 = No Detection; 1 = Detection

271, 282, 293	1 Byte	I	C - W - -	DPT_SceneControl	0-63; 128-191	[Ox] Scenes	0 - 63 (Execute 1 - 64); 128 - 191 (Save 1 - 64)
272, 283, 294	1 Bit	I	C - W - -	DPT_BinaryValue	0/1	[Ox] On/Off	N.O. (0=Open Relay; 1=Close Relay)
	1 Bit	I	C - W - -	DPT_BinaryValue	0/1	[Ox] On/Off	N.C. (0=Close Relay; 1= Open Relay)
273, 284, 295	1 Bit	O	CR - T -	DPT_BinaryValue	0/1	[Ox] On/Off (Status)	0=Output Off; 1=Output On
274, 285, 296	1 Bit	I	C - W - -	DPT_Enable	0/1	[Ox] Lock	0=Unlock; 1=Lock
275, 286, 297	1 Bit	I	C - W - -	DPT_Start	0/1	[Ox] Timer	0=Switch Off; 1=Switch On
276, 287, 298	1 Bit	I	C - W - -	DPT_Start	0/1	[Ox] Flashing	0=Stop; 1=Start
277, 288, 299	1 Bit	I	C - W - -	DPT_Alarm	0/1	[Ox] Alarm	0=Normal; 1=Alarm
	1 Bit	I	C - W - -	DPT_Alarm	0/1	[Ox] Alarm	0=Alarm; 1=Normal
278, 289, 300	1 Bit	I	C - W - -	DPT_Ack	0/1	[Ox] Unfreeze Alarm	Alarm=0 + Unfreeze=1 => End Alarm
279, 290, 301	1 Bit	O	CR - T -	DPT_State	0/1	[Ox] Warning Time (Status)	0=Normal; 1=Warning
280, 291, 302	4 Bytes	I/O	CRWT -	DPT_LongDeltaTimeSec	-2147483648 - 2147483647	[Ox] Operating Time (s)	Time in Seconds
281, 292, 303	2 Bytes	I/O	CRWT -	DPT_TimePeriodHrs	0 - 65535	[Ox] Operating Time (h)	Time in Hours
304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335	1 Bit	I	C - W - -	DPT_Bool	0/1	[LF] (1-Bit) Data Entry x	Binary Data Entry (0/1)
336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351	1 Byte	I	C - W - -	DPT_Value_1_Ucount	0 - 255	[LF] (1-Byte) Data Entry x	1-Byte Data Entry (0-255)
352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367	2 Bytes	I	C - W - -	1.xxx	0/1	[LF] (2-Byte) Data Entry x	2-Byte Data Entry
368, 369, 370, 371, 372, 373, 374, 375	4 Bytes	I	C - W - -	DPT_Value_4_Count	-2147483648 - 2147483647	[LF] (4-Byte) Data Entry x	4-Byte Data Entry
376, 377, 378, 379, 380, 381, 382, 383, 384, 385	1 Bit	O	CR - T -	DPT_Bool	0/1	[LF] Function x - Result	(1-Bit) Boolean
	1 Byte	O	CR - T -	DPT_Value_1_Ucount	0 - 255	[LF] Function x - Result	(1-Byte) Unsigned
	2 Bytes	O	CR - T -	DPT_Value_2_Ucount	0 - 65535	[LF] Function x - Result	(2-Byte) Unsigned
	4 Bytes	O	CR - T -	DPT_Value_4_Count	-2147483648 - 2147483647	[LF] Function x - Result	(4-Byte) Signed
	1 Byte	O	CR - T -	DPT_Scaling	0% - 100%	[LF] Function x - Result	(1-Byte) Percentage
	2 Bytes	O	CR - T -	DPT_Value_2_Count	-32768 - 32767	[LF] Function x - Result	(2-Byte) Signed
	2 Bytes	O	CR - T -	DPT_Value_Temp	-273.00° - 670433.28°	[LF] Function x - Result	(2-Byte) Float
386	1 Byte	I	C - W - U	DPT_SceneControl	0-63; 128-191	[Fan Coil] Scenes	0 - 63 (Execute 1 - 64); 128 - 191 (Save 1 - 64)
387	1 Bit	I	C - W - U	DPT_Switch	0/1	[FC] On/Off	0 = Off; 1 = On
388	1 Bit	O	CR - T -	DPT_Switch	0/1	[FC] On/Off (Status)	0 = Off; 1 = On

389	1 Bit	I	C - W - U	DPT_Heat_Cool	0/1	[FC] Mode	0 = Cool; 1 = Heat
390	1 Bit	O	CR - T -	DPT_Heat_Cool	0/1	[FC] Mode (Status)	0 = Cool; 1 = Heat
391	1 Bit	I	C - W - U	DPT_Switch	0/1	[FC] Fan: Manual/Automatic	0 = Automatic; 1 = Manual
	1 Bit	I	C - W - U	DPT_Switch	0/1	[FC] Fan: Manual/Automatic	0 = Manual; 1 = Automatic
392	1 Bit	O	CR - T -	DPT_Switch	0/1	[FC] Fan: Manual/Automatic (Status)	0 = Automatic; 1 = Manual
	1 Bit	O	CR - T -	DPT_Switch	0/1	[FC] Fan: Manual/Automatic (Status)	0 = Manual; 1 = Automatic
393	1 Bit	I	C - W - U	DPT_Step	0/1	[FC] Manual Fan: Step Control	0 = Down; 1 = Up
394	1 Bit	I	C - W - U	DPT_Switch	0/1	[FC] Manual Fan: Speed 0	0 = Off; 1 = On
395	1 Bit	I	C - W - U	DPT_Switch	0/1	[FC] Manual Fan: Speed 1	0 = Off; 1 = On
396	1 Bit	I	C - W - U	DPT_Switch	0/1	[FC] Manual Fan: Speed 2	0 = Off; 1 = On
397	1 Bit	I	C - W - U	DPT_Switch	0/1	[FC] Manual Fan: Speed 3	0 = Off; 1 = On
398	1 Bit	O	CR - T -	DPT_Switch	0/1	[FC] Fan: Speed 0 (Status)	0 = Off; 1 = On
399	1 Bit	O	CR - T -	DPT_Switch	0/1	[FC] Fan: Speed 1 (Status)	0 = Off; 1 = On
400	1 Bit	O	CR - T -	DPT_Switch	0/1	[FC] Fan: Speed 2 (Status)	0 = Off; 1 = On
401	1 Bit	O	CR - T -	DPT_Switch	0/1	[FC] Fan: Speed 3 (Status)	0 = Off; 1 = On
402	1 Byte	I	C - W - U	DPT_Value_1_Ucount	0 - 255	[FC] Manual Fan: Enumeration Control	S0 = 0; S1 = 1; S2 = 2; S3 = 3
	1 Byte	I	C - W - U	DPT_Value_1_Ucount	0 - 255	[FC] Manual Fan: Enumeration Control	S0 = 0; S1 = 1; S2 = 2
	1 Byte	I	C - W - U	DPT_Value_1_Ucount	0 - 255	[FC] Manual Fan: Enumeration Control	S0 = 0; S1 = 1
403	1 Byte	O	CR - T -	DPT_Value_1_Ucount	0 - 255	[FC] Fan: Speed Enumeration (Status)	S0 = 0; S1 = 1; S2 = 2; S3 = 3
	1 Byte	O	CR - T -	DPT_Value_1_Ucount	0 - 255	[FC] Fan: Speed Enumeration (Status)	S0 = 0; S1 = 1; S2 = 2
	1 Byte	O	CR - T -	DPT_Value_1_Ucount	0 - 255	[FC] Fan: Speed Enumeration (Status)	S0 = 0; S1 = 1
404	1 Byte	I	C - W - U	DPT_Scaling	0% - 100%	[FC] Manual Fan: Percentage Control	S0 = 0%; S1 = 0,4-33,3%; S2 = 33,7-66,7%; S3 = 67,1-100%
	1 Byte	I	C - W - U	DPT_Scaling	0% - 100%	[FC] Manual Fan: Percentage Control	S0 = 0%; S1 = 1-50%; S2 = 51-100%
	1 Byte	I	C - W - U	DPT_Scaling	0% - 100%	[FC] Manual Fan: Percentage Control	S0 = 0%; S1 = 1-100%
405	1 Byte	O	CR - T -	DPT_Scaling	0% - 100%	[FC] Fan: Speed Percentage (Status)	S0 = 0%; S1 = 33,3%; S2 = 66,6%; S3 = 100%
	1 Byte	O	CR - T -	DPT_Scaling	0% - 100%	[FC] Fan: Speed Percentage (Status)	S0 = 0%; S1 = 1-50%; S2 = 51-100%
	1 Byte	O	CR - T -	DPT_Scaling	0% - 100%	[FC] Fan: Speed Percentage (Status)	S0 = 0%; S1 = 1-100%
406	1 Byte	I	C - W - U	DPT_Scaling	0% - 100%	[FC] Cooling Fan: Continuous Control	0 - 100%

	1 Byte	I	<b>C - W - U</b>	DPT_Scaling	0% - 100%	[FC] Cooling Valve: PI Control (Continuous)	0 - 100%
407	1 Byte	I	<b>C - W - U</b>	DPT_Scaling	0% - 100%	[FC] Heating Fan: Continuous Control	0 - 100%
	1 Byte	I	<b>C - W - U</b>	DPT_Scaling	0% - 100%	[FC] Heating Valve: PI Control (Continuous)	0 - 100%
408	1 Bit	I	<b>C - W - U</b>	DPT_OpenClose	0/1	[FC] Cooling Valve: Control Variable (1 bit)	0 = Open Valve; 1 = Close Valve
	1 Bit	I	<b>C - W - U</b>	DPT_Switch	0/1	[FC] Cooling Valve: Control Variable (1 bit)	0 = Close Valve; 1 = Open Valve
409	1 Bit	I	<b>C - W - U</b>	DPT_OpenClose	0/1	[FC] Heating Valve: Control Variable (1 bit)	0 = Open Valve; 1 = Close Valve
	1 Bit	I	<b>C - W - U</b>	DPT_Switch	0/1	[FC] Heating Valve: Control Variable (1 bit)	0 = Close Valve; 1 = Open Valve
410	1 Bit	O	<b>CR - T -</b>	DPT_OpenClose	0/1	[FC] Cooling Valve (Status)	0 = Open; 1 = Closed
	1 Bit	O	<b>CR - T -</b>	DPT_Switch	0/1	[FC] Cooling Valve (Status)	0 = Closed; 1 = Open
	1 Bit	O	<b>CR - T -</b>	DPT_OpenClose	0/1	[FC] Valve (Status)	0 = Open; 1 = Closed
	1 Bit	O	<b>CR - T -</b>	DPT_Switch	0/1	[FC] Valve (Status)	0 = Closed; 1 = Open
411	1 Bit	O	<b>CR - T -</b>	DPT_OpenClose	0/1	[FC] Heating Valve (Status)	0 = Open; 1 = Closed
	1 Bit	O	<b>CR - T -</b>	DPT_Switch	0/1	[FC] Heating Valve (Status)	0 = Closed; 1 = Open
412	1 Bit	O	<b>CR - T -</b>	DPT_Switch	0/1	[FC] Cooling Valve: Anti-Seize Protection (Status)	0 = Not Active; 1 = Active
	1 Bit	O	<b>CR - T -</b>	DPT_Switch	0/1	[FC] Valve: Anti-Seize Protection (Status)	0 = Not Active; 1 = Active
413	1 Bit	O	<b>CR - T -</b>	DPT_Switch	0/1	[FC] Heating Valve: Anti-Seize Protection (Status)	0 = Not Active; 1 = Active
414	1 Byte	O	<b>CR - T -</b>	DPT_Scaling	0% - 100%	[FC] Valve (Status)	0 - 100%
	1 Byte	O	<b>CR - T -</b>	DPT_Scaling	0% - 100%	[FC] Cooling Valve (Status)	0 - 100%
415	1 Byte	O	<b>CR - T -</b>	DPT_Scaling	0% - 100%	[FC] Heating Valve (Status)	0 - 100%
416	1 Bit	O	<b>CR - T -</b>	DPT_Bool	0/1	[FC] Control Value - Error	0 = No Error; 1 = Error
417	2 Bytes	I	<b>C - W - U</b>	DPT_Value_Temp	-273.00° - 670433.28°	[FC] Ambient Temperature	Ambient Temperature
418	2 Bytes	I	<b>C - W - U</b>	DPT_Value_Temp	-273.00° - 670433.28°	[FC] Setpoint Temperature	Setpoint Temperature
419	2 Bytes	I/O	<b>CRWTU</b>	DPT_TimePeriodMin	0 - 65535	[FC] Duration of Manual Control	0 = Endless; 1 - 1440 min
	2 Bytes	I/O	<b>CRWTU</b>	DPT_TimePeriodHrs	0 - 65535	[FC] Duration of Manual Control	0 = Endless; 1 - 24 h
420	1 Bit	I	<b>C - W - -</b>	DPT_Switch	0/1	[ML] Trigger	Trigger the Master Light Function
421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432	1 Bit	I	<b>C - W - -</b>	DPT_Switch	0/1	[ML] Status Object x	Binary Status
433	1 Bit	O	<b>CR - T -</b>	DPT_Switch	0/1	[ML] General Status	Binary Status
434	1 Bit	O	<b>C - - T -</b>	DPT_Switch	0/1	[ML] General Switch Off: Binary Object	Switch Off Sending
435	1 Byte	O	<b>C - - T -</b>	DPT_Scaling	0% - 100%	[ML] General Switch Off: Scaling	0-100%
436	1 Byte	O	<b>C - - T -</b>	DPT_SceneControl	0-63; 128-191	[ML] General Switch Off: Scene	Scene Sending

437	1 Byte	O	C--T-	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[ML] General Switch Off: HVAC mode	Auto, Comfort, Standby, Economy, Building Protection
438	1 Bit	O	C--T-	DPT_Switch	0/1	[ML] Courtesy Switch On: Binary Object	Switch On Sending
439	1 Byte	O	C--T-	DPT_Scaling	0% - 100%	[ML] Courtesy Switch On: Scaling	0-100%
440	1 Byte	O	C--T-	DPT_SceneControl	0-63; 128-191	[ML] Courtesy Switch On: Scene	Scene Sending
441	1 Byte	O	C--T-	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[ML] Courtesy Switch On: HVAC mode	Auto, Comfort, Standby, Economy, Building Protection
442	1 Bit	O	C--T-	DPT_Trigger	0/1	[Heartbeat] Object to Send '1'	Sending of '1' Periodically

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