Presentia C MultiSensor

KNX presence detector with luminosity, temperature, humidity and CO2 for ceiling mounting

ZPDCMS

www.zennio.com

CONTENTS

1 INTRODUCTION

1.1 PRESENTIA C MULTISENSOR

Presentia C MultiSensor from Zennio is a device that admits at, among other functions, the detection of presence, measurement and control of the room luminosity and CO2, and the detection of occupancy within the room where it has been installed. It has been designed for ceiling or false ceiling mounting by means of the bundled accessories.

- **4 motion sensors** with configurable sensitivities.

- **4 LEDs** to indicate motion.

- **Presence and occupancy detection:**

- **Luminosity measurement:**

- **2 constant light control** channels with configurable setpoints.

- **10** customisable, multi-operation **logic functions.**

- **Internal Temperature Sensor.**

- **Thermostat.**

- **Heartbeat** or periodic "still alive".

- **Humidity sensor** and **dew point** with humidity and condensation protection.

- **CO2 Sensor** with protection alarm.

- **CO2 Control** with configurable ventilation levels.

- **Scene-based** control of actions, with possibility of setting a delay in execution.

- **2 configurable inputs:**

    - ➢ **Binary input** configurable as Push Button or Switch / Sensor.

    - ➢ External **Temperature Probe.**

    - ➢ Single or dual sensor **Motion Detector.**

1.2 START-UP AND POWER LOSS

During device initialisation, Prog./Test LED flashes blue for a few seconds before the sensors are ready. External commands will not be executed during this time but will be executed afterwards.

Depending on the configuration, some specific actions will also be executed during start-up. For example, the integrator can configure whether the output channels will be initialised disabled. Please refer to the following sections of this document for more details.

On the other hand, when a power failure occurs, the device will interrupt any pending actions and save its state so that can be recovered once the power supply is restored.

2 CONFIGURATION

2.1 GENERAL

After importing the corresponding database into ETS and adding the device to the desired project topology, the configuration process is started by accessing the device parameters tab.

ETS PARAMETRISATION

From the **General** screen it is possible to activate / deactivate all the required functionality.


Figure 1. General

- ![icon] **Lens colour** [_White / Black_][1]: sets the colour of the lens of the device.

    Note: if <u>Black</u> lens colour is selected, the detection LEDs in the "Presence Detector" tab will always be disabled.

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[1] The default values of each parameter will be highlighted in blue in this document, as follows: [_default / rest of options_].

- **Presence Detection** [*enabled*]: enables the "Presence Detector" tab in the tree of the left. For more information, see section 2.2.

- **Logic functions** [*enabled / disabled*] enables or disables the "Logic Functions" tab in the tree on the left. For more information, see section 2.3.

- **Heartbeat (Periodic Alive Notification)** [*enabled / disabled*]: incorporates a one-bit object to the project ("**[Heartbeat] Object to Send '1'**") that will be sent periodically with a value of "1" to notify that the device is still working (still alive).
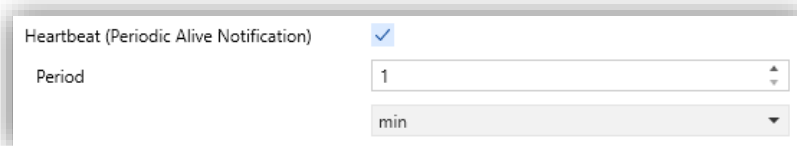
Figure 2. Heartbeat

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.

- **Device Recovery Objects (Send 0 and 1)** [*enabled / disabled*]: this parameter activates 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** [*0 … 255*] to this sending.
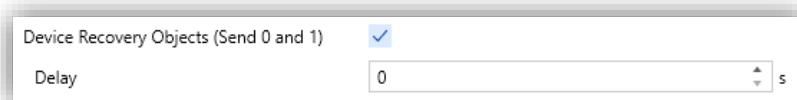
Figure 3. Device Recovery Objects

Note: after downloading or bus failure, the sending takes place with a delay of up to 6,35 seconds plus the parametrised delay, to prevent overload.

- **Internal Temperature Sensor** [*enabled / disabled*]: enables or disables the "Internal Temperature Sensor" tab. For more information, see section 2.4.

  Thermostat [*enabled / disabled*]: enables or disables the "Thermostat" tab. For more information, see section 2.5.

When the thermostat is enabled, the **Scene after downloading** configuration appears on the General page.

➢ **Scene after downloading** [*Configured by Parameters / Keep Saved Scenes*]: allows defining whether the value of the scenes is the configured by parameter or whether the previously saved value is kept after downloading.

Note: *if the option "Keep Saved Scenes" has been configured, but this is the first download of the device or of a different version than the current one, parameter-configured values shall be adopted. If new scenes are added in subsequent downloads, it will be necessary to perform a download by checking the option "Configured by Parameters" to ensure the correct functioning of these scenes.*

- **Humidity** [*enabled / disabled*]: enables or disables the "Humidity" tab. For more information, see section 2.6.

- **CO2 Sensor** [*enabled / disabled*]: enables or disables the "CO2 Sensor tab. For more information, see section 2.7.

- **CO2 Control** [*enabled / disabled*]: it allows to enable or disable the "CO2 Control" tab. For more information see section 2.8.

- **Inputs** [*enabled / disabled*]: Enables or disables the inputs tab. For more information see section 2.9.

- **Environment Sensor Error Object** [*enabled / disabled*]: Enables or disables the Environment Sensor Error object, which allows to configure a periodical self-test send for the sensor in days. When is enabled appears:

  ➢ **Error Status Request Period** [*0…30*][*days*]: allows to set the time.

2.2 PRESENCE DETECTOR

Presentia C MultiSensor incorporates six independent channels for presence detection, two for constant light dimming and one for occupancy detection:

- **Presence detection** consists of sending objects to the bus every time the device observes a body moving (or ceasing to move) in the environment of the room where it is installed.

- **Constant light control** consists of sending KNX commands to the room luminaire controller in order to keep the ambient light level constant in relation to other possible light sources.

- **Occupancy detection** is an algorithm that makes it possible to determine, through a combination of several sensors, whether an enclosure is occupied regardless of whether the occupant is moving or not, meaning whether or not presence is being detected in the room.

Please refer to the specific document "**Presence Detector**" available in the Presentia C MultiSensor product section of the Zennio web portal (www.zennio.com) for detailed information on the operation and ETS configuration of the associated parameters.

2.3 LOGICAL FUNCTIONS

This module allows the execution of numerical or binary logic operations with data coming from the KNX bus and send the result through communication objects specifically enabled for this purpose in the device.

The Presentia C MultiSensor can implement **up to 10 different and independent logic functions**, fully customisable, consisting of up to 4 consecutive operations each.

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

Please refer to the specific document "**Logic functions**" available in the Presentia C MultiSensor product section of the Zennio web portal (www.zennio.com) for detailed information on the use of logic functions and their parameterisation in ETS.

2.4 INTERNAL TEMPERATURE SENSOR

The device is equipped with an internal temperature sensor that can monitor the room ambient temperature, so that the device can report it to the KNX bus and trigger certain actions when the temperature reaches certain values.

For more information, please refer to the specific manual "**Temperature probe**", available in the product section at the Zennio homepage (www.zennio.com).

2.5 THERMOSTAT

The device incorporates a thermostat that can be fully enabled and customised.

Please refer to the specific "**Zennio Thermostat**" user manual available under the product section at the Zennio homepage (www.zennio.com) for detailed information about the functionality and the configuration of the related parameters.

2.6 HUMIDITY

The device has a humidity sensor that can monitor the humidity in the room, so that the device can report it to the KNX bus and trigger certain actions when the humidity reaches certain values.

For specific information about the operation and configuration of the humidity sensor, please refer to the specific documentation "**Humidity**" available in the product section of the Zennio web portal (www.zennio.com).

2.7 CO2 SENSOR

The device has a humidity sensor that can monitor the CO2 level in the room, so that the device can report it to the KNX bus and trigger certain actions when the CO2 reaches certain values.

For specific information about the operation and configuration of the humidity sensor, please refer to the specific documentation "**CO2 Sensor**" available in the product section of the Zennio web portal (www.zennio.com).

2.8 CO2 CONTROL

The device incorporates a CO2 control option that allows to ventilate the room by regulating the CO2 in the room.

For specific information about the operation and configuration of the humidity sensor, please refer to the specific documentation "**CO2 Control**" available in the product section of the Zennio web portal (www.zennio.com).

2.9 INPUTS

The device has **two analogue-digital input ports**. Each of which has three possible configurations which are explained below.

2.9.1 BINARY INPUT

Configuration for the connection of a push button or a switch/sensor. Please refer to the specific manual "**Binary Inputs**", available within the product selection at www.zennio.com.

2.9.2 TEMPERATURE PROBE

Configuration to connect a Zennio temperature sensor. Please refer to the specific manual "**Temperature probe**", available in the product section at www.zennio.com.

2.9.3 MOTION DETECTOR

It is possible to connect Zennio motion and brightness detectors. Please refer to the specific user manual "**Motion Detector**", available within the product section at www.zennio.com, for detailed information about the functionality and configuration of the related parameters.

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 R - T -	DPT_Trigger	0/1	[Heartbeat] Object to Send '1'	Sending of '1' Periodically
2	1 Bit	O	C R - T -	DPT_Trigger	0/1	[Heartbeat] Device Recovery	Send 0
3	1 Bit	O	C R - T -	DPT_Trigger	0/1	[Heartbeat] Device Recovery	Send 1
4	1 Byte	I	C - W - -	DPT_SceneNumber	0 - 63	Scene Input	Scene Value
5	1 Byte	O	C - - T -	DPT_SceneControl	0-63; 128-191	Scene Output	Scene Value
6	2 Bytes	I/O	C R W - -	1.xxx	0/1	Correction Factor - Internal Sensor	[0, 80] x0.1
8	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	Luminosity - Internal Sensor	%
12	1 Bit	I	C - W - -	DPT_DayNight	0/1	Day/Night	0 = Day; 1 = Night
	1 Bit	I	C - W - -	DPT_DayNight	0/1	Day/Night	0 = Night; 1 = Day
13	1 Bit	I	C - W - -	DPT_Enable	0/1	Detection LEDs	0 = Disable; 1 = Enable
	1 Bit	I	C - W - -	DPT_Enable	0/1	Detection LEDs	0 = Disable; 1 = Enable Only During the Day
	1 Bit	I	C - W - -	DPT_Enable	0/1	Detection LED	0 = Disable; 1 = Enable
	1 Bit	I	C - W - -	DPT_Enable	0/1	Detection LED	0 = Disable; 1 = Enable Only During the Day
14	1 Bit	O	C R - T -	DPT_Switch	0/1	Occupancy: Output (Binary)	Binary Value
	1 Bit	O	C - - T -	DPT_Start	0/1	Occupancy: Slave Output	1 = Motion Detected
15	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	Occupancy: Output (Scaling)	0-100%
16	1 Byte	O	C R - T -	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	Occupancy: Output (HVAC)	Auto, Comfort, Standby, Economy, Building Protection
17	1 Bit	I	C - W - -	DPT_Window_Door	0/1	Occupancy: Trigger	Binary Value to Trigger the Occupancy Detection
18	1 Bit	I	C - W - -	DPT_Start	0/1	Occupancy: Slave Input	1 = Detection from slave device
19	2 Bytes	I	C - W - -	DPT_TimePeriodSec	0 - 65535	Occupancy: Waiting Time	0-65535 s.
20	2 Bytes	I	C - W - -	DPT_TimePeriodSec	0 - 65535	Occupancy: Listening Time	1-65535 s.
21	1 Bit	I	C - W - -	DPT_Enable	0/1	Occupancy: Lock	0 = Unlock; 1 = Lock

	1 Bit	I	C - W - -	DPT_Enable	0/1	Occupancy: Lock	0 = Lock; 1 = Unlock
22	1 Bit	O	C R - T -	DPT_Occupancy	0/1	Occupancy: Occupancy State	0 = Not Occupied; 1 = Occupied
23	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	Sensor 1 Sensitivity	1-100%
	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	Sensor Sensitivity	1-100%
24	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	Sensor 2 Sensitivity	1-100%
25	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	Sensor 3 Sensitivity	1-100%
26	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	Sensor 4 Sensitivity	1-100%
27, 38, 49, 60, 71, 82	1 Bit	I	C - W - -	DPT_Start	0/1	[Cx] External Motion Detection	1 = Motion detected by an external sensor
28, 39, 50, 61, 72, 83	1 Bit	O	C R - T -	DPT_Switch	0/1	[Cx] Output (Binary)	Binary Value
29, 40, 51, 62, 73, 84	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	[Cx] Output (Scaling)	0-100%
30, 41, 52, 63, 74, 85	1 Byte	O	C R - T -	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Cx] Output (HVAC)	Auto, Comfort, Standby, Economy, Building Protection
31, 42, 53, 64, 75, 86	1 Byte	O	C R - T -	DPT_SceneControl	0-63; 128-191	[Cx] Output (Scene)	1-64
32, 43, 54, 65, 76, 87	1 Bit	I	C - W - -	DPT_Enable	0/1	[Cx] Lock Status	0 = Unlock; 1 = Lock
	1 Bit	I	C - W - -	DPT_Enable	0/1	[Cx] Lock Status	0 = Lock; 1 = Unlock
33, 44, 55, 66, 77, 88	1 Bit	I	C - W - -	DPT_Start	0/1	[Cx] Force State	0 = No Detection; 1 = Detection
34, 45, 56, 67, 78, 89	1 Bit	I	C - W - -	DPT_Start	0/1	[Cx] External Switch	0 = No Detection; 1 = Detection
35, 46, 57, 68, 79, 90	2 Bytes	I/O	C R W - -	DPT_TimePeriodSec	0 - 65535	[Cx] Length of Detection	1-65535 s.
93, 109	1 Bit	I	C - W - -	DPT_Start	0/1	[CLCx] External Motion Detection	1 = Motion detected by an external sensor
94, 110	1 Bit	I	C - W - -	DPT_Enable	0/1	[CLCx] Lock Status	0 = Unlock; 1 = Lock
	1 Bit	I	C - W - -	DPT_Enable	0/1	[CLCx] Lock Status	0 = Lock; 1 = Unlock
95, 111	1 Bit	I	C - W - -	DPT_Start	0/1	[CLCx] Force State	0 = No Detection; 1 = Detection
96, 112	1 Bit	I	C - W - -	DPT_Start	0/1	[CLCx] External Switch	0 = No Detection; 1 = Detection
97, 113	2 Bytes	I	C - W - -	DPT_Value_Lux		[CLCx] Setpoint	Setpoint Value (1-2000)
	2 Bytes	I	C - W - -	DPT_Value_Lux		[CLCx] Setpoint During Day	Setpoint Value (1-2000)
	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	[CLCx] Setpoint	Setpoint Value (1-100)%
	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	[CLCx] Setpoint During Day	Setpoint Value (1-100)%
98, 114	2 Bytes	I	C - W - -	DPT_Value_Lux		[CLCx] Setpoint During Night	Setpoint Value (1-2000)
	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	[CLCx] Setpoint During Night	Setpoint Value (1-100)%
99, 115	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	[CLCx] Dimming Value	Dimming Value (%)
100, 116	2 Bytes	I/O	C R W - -	DPT_TimePeriodSec	0 - 65535	[CLCx] Length of Detection	1-65535 s.
102, 118	1 Bit	I	C - W - -	DPT_Switch	0/1	[CLCx] Manual Control: On/Off (Input)	1-Bit Control
103, 119	4 Bit	I	C - W - -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1…0x7 (Dec.) 0x9…0xF (Inc.)	[CLCx] Manual Control: Relative Dimming (Input)	4-Bit Control
104, 120	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	[CLCx] Manual Control: Absolute Dimming (Input)	1-Byte Control

105, 121	1 Bit	O	**C R - T -**	DPT_Switch	0/1	[CLCx] Manual Control: On/Off (Output)	1-Bit Control
106, 122	4 Bit	O	**C R - T -**	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[CLCx] Manual Control: Relative Dimming (Output)	4-Bit Control
107, 123	1 Bit	I	**C - W - -**	DPT_Enable	0/1	[CLCx] Manual Control	0 = Disable; 1 = Enable
108, 124	1 Bit	O	**C R - T -**	DPT_Enable	0/1	[CLCx] Manual Control (Status)	0 = Disabled; 1 = Enabled
125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156	1 Bit	I	**C - W - -**	DPT_Bool	0/1	[LF] (1-Bit) Data Entry x	Binary Data Entry (0/1)
157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172	1 Byte	I	**C - W - -**	DPT_Value_1_Ucount	0 - 255	[LF] (1-Byte) Data Entry x	1-Byte Data Entry (0-255)
173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188	2 Bytes	I	**C - W - -**	DPT_Value_2_Ucount	0 - 65535	[LF] (2-Byte) Data Entry x	2-Byte Data Entry
	2 Bytes	I	**C - W - -**	DPT_Value_2_Count	-32768 - 32767	[LF] (2-Byte) Data Entry x	2-Byte Data Entry
	2 Bytes	I	**C - W - -**	9.xxx	-671088.64 - 670433.28	[LF] (2-Byte) Data Entry x	2-Byte Data Entry
189, 190, 191, 192, 193, 194, 195, 196	4 Bytes	I	**C - W - -**	DPT_Value_4_Count	-2147483648 - 2147483647	[LF] (4-Byte) Data Entry x	4-Byte Data Entry
197, 198, 199, 200, 201, 202, 203, 204, 205, 206	1 Bit	O	**C R - T -**	DPT_Bool	0/1	[LF] Function x - Result	(1-Bit) Boolean
	1 Byte	O	**C R - T -**	DPT_Value_1_Ucount	0 - 255	[LF] Function x - Result	(1-Byte) Unsigned
	2 Bytes	O	**C R - T -**	DPT_Value_2_Ucount	0 - 65535	[LF] Function x - Result	(2-Byte) Unsigned
	4 Bytes	O	**C R - T -**	DPT_Value_4_Count	-2147483648 - 2147483647	[LF] Function x - Result	(4-Byte) Signed
	1 Byte	O	**C R - T -**	DPT_Scaling	0% - 100%	[LF] Function x - Result	(1-Byte) Percentage
	2 Bytes	O	**C R - T -**	DPT_Value_2_Count	-32768 - 32767	[LF] Function x - Result	(2-Byte) Signed
	2 Bytes	O	**C R - T -**	9.xxx	-671088.64 - 670433.28	[LF] Function x - Result	(2-Byte) Float
207	2 Bytes	O	**C R - T -**	DPT_Value_Temp	-273.00º - 670433.28º	[Internal Probe] Current Temperature	Temperature Sensor Value
208	1 Bit	O	**C R - T -**	DPT_Alarm	0/1	[Internal Probe] Overcooling	0 = No Alarm; 1 = Alarm
209	1 Bit	O	**C R - T -**	DPT_Alarm	0/1	[Internal Probe] Overheating	0 = No Alarm; 1 = Alarm
210	1 Byte	I	**C - W - -**	DPT_SceneControl	0-63; 128-191	[Thermostat] Scenes	0 – 63 (Execute 1 – 64); 128 – 191 (Save 1 – 64)
211	2 Bytes	I	**C - W T U**	DPT_Value_Temp	-273.00º - 670433.28º	[Tx] Temperature Source 1	External Sensor Temperature
212	2 Bytes	I	**C - W T U**	DPT_Value_Temp	-273.00º - 670433.28º	[Tx] Temperature Source 2	External Sensor Temperature
213	2 Bytes	O	**C R - T -**	DPT_Value_Temp	-273.00º - 670433.28º	[Tx] Effective Temperature	Effective Control Temperature
214	1 Byte	I	**C - W - -**	DPT_HVACMode	1=Comfort 2=Standby 3=Economy	[Tx] Special Mode	1-Byte HVAC Mode

					4=Building Protection		
215	1 Bit	I	C - W - -	DPT_Ack	0/1	[Tx] Special Mode: Comfort	0 = Nothing; 1 = Trigger
	1 Bit	I	C - W - -	DPT_Switch	0/1	[Tx] Special Mode: Comfort	0 = Off; 1 = On
216	1 Bit	I	C - W - -	DPT_Ack	0/1	[Tx] Special Mode: Standby	0 = Nothing; 1 = Trigger
	1 Bit	I	C - W - -	DPT_Switch	0/1	[Tx] Special Mode: Standby	0 = Off; 1 = On
217	1 Bit	I	C - W - -	DPT_Ack	0/1	[Tx] Special Mode: Economy	0 = Nothing; 1 = Trigger
	1 Bit	I	C - W - -	DPT_Switch	0/1	[Tx] Special Mode: Economy	0 = Off; 1 = On
218	1 Bit	I	C - W - -	DPT_Ack	0/1	[Tx] Special Mode: Protection	0 = Nothing; 1 = Trigger
	1 Bit	I	C - W - -	DPT_Switch	0/1	[Tx] Special Mode: Protection	0 = Off; 1 = On
219	1 Bit	I	C - W - -	DPT_Window_Door	0/1	[Tx] Window Status (Input)	0 = Closed; 1 = Open
220	1 Bit	I	C - W - -	DPT_Trigger	0/1	[Tx] Comfort Prolongation	0 = Nothing; 1 = Timed Comfort
221	1 Byte	O	C R - T -	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Tx] Special Mode Status	1-Byte HVAC Mode
222	2 Bytes	I	C - W - -	DPT_Value_Temp	-273.00º - 670433.28º	[Tx] Setpoint	Thermostat Setpoint Input
	2 Bytes	I	C - W - -	DPT_Value_Temp	-273.00º - 670433.28º	[Tx] Basic Setpoint	Reference Setpoint
223	1 Bit	I	C - W - -	DPT_Step	0/1	[Tx] Setpoint Step	0 = Decrease Setpoint; 1 = Increase Setpoint
224	2 Bytes	I	C - W - -	DPT_Value_Tempd	-671088.64º - 670433.28º	[Tx] Setpoint Offset	Float Offset Value
225	2 Bytes	O	C R - T -	DPT_Value_Temp	-273.00º - 670433.28º	[Tx] Setpoint Status	Current Setpoint
226	2 Bytes	O	C R - T -	DPT_Value_Temp	-273.00º - 670433.28º	[Tx] Basic Setpoint Status	Current Basic Setpoint
227	2 Bytes	O	C R - T -	DPT_Value_Tempd	-671088.64º - 670433.28º	[Tx] Setpoint Offset Status	Current Setpoint Offset
228	1 Bit	I	C - W - -	DPT_Reset	0/1	[Tx] Setpoint Reset	Reset Setpoint to Default
	1 Bit	I	C - W - -	DPT_Reset	0/1	[Tx] Offset Reset	Reset Offset
229	1 Bit	I	C - W - -	DPT_Heat_Cool	0/1	[Tx] Mode	0 = Cool; 1 = Heat
230	1 Bit	O	C R - T -	DPT_Heat_Cool	0/1	[Tx] Mode Status	0 = Cool; 1 = Heat
231	1 Bit	I	C - W - -	DPT_Switch	0/1	[Tx] On/Off	0 = Off; 1 = On
232	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] On/Off Status	0 = Off; 1 = On
233	1 Bit	I/O	C R W - -	DPT_Switch	0/1	[Tx] Main System (Cool)	0 = System 1; 1 = System 2
234	1 Bit	I/O	C R W - -	DPT_Switch	0/1	[Tx] Main System (Heat)	0 = System 1; 1 = System 2
235	1 Bit	I	C - W - -	DPT_Enable	0/1	[Tx] Enable/Disable Secondary System (Cool)	0 = Disable; 1 = Enable
236	1 Bit	I	C - W - -	DPT_Enable	0/1	[Tx] Enable/Disable Secondary System (Heat)	0 = Disable; 1 = Enable
237, 243	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	[Tx] [Sx] Control Variable (Cool)	PI Control (Continuous)
238, 244	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	[Tx] [Sx] Control Variable (Heat)	PI Control (Continuous)
	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	[Tx] [Sx] Control Variable	PI Control (Continuous)
239, 245	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] Control Variable (Cool)	2-Point Control
	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] Control Variable (Cool)	PI Control (PWM)

	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] Control Variable (Heat)	2-Point Control
240, 246	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] Control Variable (Heat)	PI Control (PWM)
	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] Control Variable	2-Point Control
	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] Control Variable	PI Control (PWM)
241, 247	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] PI State (Cool)	0 = PI Signal 0%; 1 = PI Signal Greater than 0%
242, 248	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] PI State (Heat)	0 = PI Signal 0%; 1 = PI Signal Greater than 0%
	1 Bit	O	C R - T -	DPT_Switch	0/1	[Tx] [Sx] PI State	0 = PI Signal 0%; 1 = PI Signal Greater than 0%
249	1 Byte	I	C - W - -	DPT_Percent_V8		[Hum] Sensor Calibration	-12% ... 12%
250	2 Bytes	O	C R - T -	DPT_Value_Humidity	-12% - 12%	[Hum] Current Humidity	Humidity Sensor Value
251	2 Bytes	O	C R - T -	DPT_Value_Temp	-273.00º - 670433.28º	[Hum] Dew Point Temperature	Dew Point Temperature Value
252	2 Bytes	I	C - W - -	DPT_Value_Humidity	-12% - 12%	[Hum] High Humidity Alarm Threshold	Value of High Humidity Alarm Threshold
253	2 Bytes	I	C - W - -	DPT_Value_Humidity	-12% - 12%	[Hum] Low Humidity Alarm Threshold	Value of Low Humidity Alarm Threshold
254	2 Bytes	I	C - W - -	DPT_Value_Temp	-273.00º - 670433.28º	[Hum] Surface Temperature	Input Surface Temperature Value
255	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Hum] High Humidity	0 = No Alarm; 1 = Alarm
256	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Hum] Low Humidity	0 = No Alarm; 1 = Alarm
257	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Hum] Condensation	0 = No Alarm; 1 = Alarm
258	2 Bytes	I/O	C R W - -	DPT_Value_2_Count	-32768 - 32767	[COx Sensor] Sensor Calibration	[-1000 ... 1000] ppm
259	2 Bytes	O	C R - T -	DPT_Value_AirQuality		[COx Sensor] Current CO2 Value	CO2 Sensor Value
	2 Bytes	O	C R - T -	DPT_Value_2_Ucount	0 - 65535	[COx Sensor] Current CO2 Value	CO2 Sensor Value
260	2 Bytes	I/O	C R W - -	DPT_Value_2_Ucount	0 - 65535	[COx Sensor] CO2 Alarm Threshold	[500 ... 2000] ppm
261	1 Bit	O	C R - T -	DPT_Alarm	0/1	[COx Sensor] CO2 Alarm	0 = No Alarm; 1 = Alarm
262	1 Bit	O	C R - T -	DPT_Alarm	0/1	Environmental Sensor Error	0 = No Alarm; 1 = Alarm
263	1 Bit	I	C - W - -	DPT_Switch	0/1	[COx Control] On/Off	0 = Off; 1 = On
264	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] On/Off (Status)	0 = Off; 1 = On
265	2 Bytes	I	C - W - -	DPT_Value_2_Ucount	0 - 65535	[COx Control] CO2 Source	2-Byte Unsigned CO2 Sensor Value
	2 Bytes	I	C - W - -	DPT_Value_AirQuality		[COx Control] CO2 Source	2-Byte Float CO2 Sensor Value
266	2 Bytes	I/O	C R W - -	DPT_Value_2_Ucount	0 - 65535	[COx Control] CO2 Threshold 1	[500 ... 2000] ppm
267	2 Bytes	I/O	C R W - -	DPT_Value_2_Ucount	0 - 65535	[COx Control] CO2 Threshold 2	[500 ... 2000] ppm
268	2 Bytes	I/O	C R W - -	DPT_Value_2_Ucount	0 - 65535	[COx Control] CO2 Threshold 3	[500 ... 2000] ppm
269	2 Bytes	I/O	C R W - -	DPT_Value_2_Ucount	0 - 65535	[COx Control] CO2 Threshold 4	[500 ... 2000] ppm
270	2 Bytes	I/O	C R W - -	DPT_Value_2_Ucount	0 - 65535	[COx Control] CO2 Threshold 5	[500 ... 2000] ppm
271	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Ventilation Status	0 = Ventilation Off; 1 = Ventilation On
272	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 0	0 = Level 0 Off; 1 = Level 0 On
	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 0	0 = Level 0 On; 1 = Level 0 Off

273	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 1	0 = Level 1 Off; 1 = Level 1 On
	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 1	0 = Level 1 On; 1 = Level 1 Off
274	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 2	0 = Level 2 On; 1 = Level 2 Off
	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 2	0 = Level 2 Off; 1 = Level 2 On
275	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 3	0 = Level 3 On; 1 = Level 3 Off
	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 3	0 = Level 3 Off; 1 = Level 3 On
276	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 4	0 = Level 4 On; 1 = Level 4 Off
	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 4	0 = Level 4 Off; 1 = Level 4 On
277	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 5	0 = Level 5 Off; 1 = Level 5 On
	1 Bit	O	C R - T -	DPT_Switch	0/1	[COx Control] Control Variable (Binary): Level 5	0 = Level 5 On; 1 = Level 5 Off
278	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	[COx Control] Control Variable (Percentage)	Threshold Control (0% … 100%)
279, 283	2 Bytes	O	C R - T -	DPT_Value_Temp	-273.00º - 670433.28º	[Ix] Current Temperature	Temperature Sensor Value
280, 284	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Ix] Overcooling	0 = No Alarm; 1 = Alarm
281, 285	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Ix] Overheating	0 = No Alarm; 1 = Alarm
282, 286	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Ix] Probe Error	0 = No Alarm; 1 = Alarm
287	1 Byte	I	C - W - -	DPT_SceneNumber	0 - 63	[Motion Detector] Scene Input	Scene Value
288	1 Byte	O	C - - T -	DPT_SceneControl	0-63; 128-191	[Motion Detector] Scene Output	Scene Value
289, 326	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	[Ix] Luminosity	0-100%
290, 327	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Ix] Open Circuit Error	0 = No Error; 1 = Open Circuit Error
291, 328	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Ix] Short Circuit Error	0 = No Error; 1 = Short Circuit Error
292, 329	1 Byte	O	C R - T -	DPT_Scaling	0% - 100%	[Ix] Presence State (Scaling)	0-100%
293, 330	1 Byte	O	C R - T -	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Ix] Presence State (HVAC)	Auto, Comfort, Standby, Economy, Building Protection
294, 331	1 Bit	O	C R - T -	DPT_Switch	0/1	[Ix] Presence State (Binary)	Binary Value
	1 Bit	O	C R - T -	DPT_Start	0/1	[Ix] Presence: Slave Output	1 = Motion Detected
295, 332	1 Bit	I	C - W - -	DPT_Window_Door	0/1	[Ix] Presence Trigger	Binary Value to Trigger the Presence Detection
296, 333	1 Bit	I	C - W - -	DPT_Start	0/1	[Ix] Presence: Slave Input	0 = Nothing; 1 = Detection from slave device
297, 334	2 Bytes	I/O	C R W - -	DPT_TimePeriodSec	0 - 65535	[Ix] Presence: Waiting Time	0-65535 s.

298, 335	2 Bytes	I/O	C R W – –	DPT_TimePeriodSec	0 - 65535	[Ix] Presence: Listening Time	1-65535 s.
299, 336	2 Bytes	I/O	C R W – –	DPT_TimePeriodMin	0 - 65535	[Ix] Presence: Safety Time	0-1440 min.
300, 337	1 Byte	I/O	C R W – –	DPT_Value_1_Ucount	0 - 255	[Ix] Presence: Number of Detections of the Filter	2-5
301, 338	1 Byte	I/O	C R W – –	DPT_Value_1_Ucount	0 - 255	[Ix] Presence: Filter Detection Window	15-60 s.
302, 339	1 Bit	I	C – W – –	DPT_Enable	0/1	[Ix] Presence: Enable	0 = Disable; 1 = Enable
	1 Bit	I	C – W – –	DPT_Enable	0/1	[Ix] Presence: Enable	0 = Enable; 1 = Disable
303, 340	1 Bit	I/O	C R W – –	DPT_DayNight	0/1	[Ix] Presence: Day/Night	0 = Day; 1 = Night
	1 Bit	I/O	C R W – –	DPT_DayNight	0/1	[Ix] Presence: Day/Night	0 = Night; 1 = Day
304, 341	1 Bit	O	C R – T –	DPT_Occupancy	0/1	[Ix] Presence: Occupancy State (Master Output)	0 = Not Occupied; 1 = Occupied
	1 Bit	I	C – W – –	DPT_Occupancy	0/1	[Ix] Presence: Occupancy State (Master Input)	0 = Not Occupied; 1 = Occupied
305, 342	1 Bit	I	C – W – –	DPT_Switch	0/1	[Ix] Presence: Access Guest/Employee	0 = Guest; 1 = Employee
	1 Bit	I	C – W – –	DPT_Switch	0/1	[Ix] Presence: Access Guest/Employee	0 = Employee; 1 = Guest
306, 343	1 Bit	I	C – W – –	DPT_Bool	0/1	[Ix] Presence: Sold/Unsold Room	0 = Unsold; 1 = Sold
	1 Bit	I	C – W – –	DPT_Bool	0/1	[Ix] Presence: Sold/Unsold Room	0 = Sold; 1 = Unsold
307, 344	1 Bit	I	C – W – –	DPT_Start	0/1	[Ix] External Motion Detection	0 = Nothing; 1 = Motion detected by an external sensor
308, 314, 320, 345, 351, 357	1 Byte	O	C R – T –	DPT_Scaling	0% - 100%	[Ix][Cx] Detection State (Scaling)	0-100%
309, 315, 321, 346, 352, 358	1 Byte	O	C R – T –	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Ix][Cx] Detection State (HVAC)	Auto, Comfort, Standby, Economy, Building Protection
310, 316, 322, 347, 353, 359	1 Bit	O	C R – T –	DPT_Switch	0/1	[Ix][Cx] Detection State (Binary)	Binary Value
311, 317, 323, 348, 354, 360	1 Bit	I	C – W – –	DPT_Enable	0/1	[Ix][Cx] Enable Channel	According to parameters
312, 318, 324, 349, 355, 361	1 Bit	I	C – W – –	DPT_Switch	0/1	[Ix][Cx] Force State	0 = No Detection; 1 = Detection
313, 319, 325, 350, 356, 362	1 Byte	I	C – W – –	DPT_Scaling	0% - 100%	[Ix][Cx] Luminosity Threshold	1-100%
363, 372	1 Bit	I	C – W – –	DPT_Enable	0/1	[Ix] Input Lock	0 = Unlock; 1 = Lock
364, 373	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 – W T –	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	I	C - W 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	I	C - W 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	I	C - W 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 On/Off	0/1
1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Short Press] Light Off	Sending of 0 (Off)
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 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
1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] 0	Sending of 0
1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] 1	Sending of 1
1 Bit	I	C - W T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] 0/1 Switching	Switching 0/1
1 Bit	O	C - - T -	DPT_UpDown	0/1	[Ix] [Switch/Sensor] [Rising Edge] Move Up Shutter	Sending of 0 (Up)
1 Bit	O	C - - T -	DPT_UpDown	0/1	[Ix] [Switch/Sensor] [Rising Edge] Move Down Shutter	Sending of 1 (Down)
1 Bit	I	C - W T -	DPT_UpDown	0/1	[Ix] [Switch/Sensor] [Rising Edge] Move Up/Down Shutter	Switching 0/1 (Up/Down)
1 Bit	O	C - - T -	DPT_Step	0/1	[Ix] [Switch/Sensor] [Rising Edge] Stop/Step Up Shutter	Sending of 0 (Stop/Step Up)
1 Bit	O	C - - T -	DPT_Step	0/1	[Ix] [Switch/Sensor] [Rising Edge] Stop/Step Down Shutter	Sending of 1 (Stop/Step Down)

	1 Bit	I	C - W T -	DPT_Step	0/1	[Ix] [Switch/Sensor] [Rising Edge] Stop/Step Shutter (Switched)	Switching of 0/1 (Stop/Step Up/Down)
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] Light On	Sending of 1 (On)
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] Light Off	Sending of 0 (Off)
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] Light On/Off	0/1
	4 Bit	O	C - - T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Switch/Sensor] [Rising Edge] Brighter	Increase Brightness
	4 Bit	O	C - - T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Switch/Sensor] [Rising Edge] Darker	Decrease Brightness
	4 Bit	I	C - W T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Switch/Sensor] [Rising Edge] Brighter/Darker	Switch Bright/Dark
	1 Byte	O	C - - T -	DPT_SceneControl	0-63; 128-191	[Ix] [Switch/Sensor] [Rising Edge] Run Scene	Sending of 0 - 63
	1 Byte	O	C - - T -	DPT_SceneControl	0-63; 128-191	[Ix] [Switch/Sensor] [Rising Edge] Save Scene	Sending of 128 - 191
	1 Byte	O	C - - T -	DPT_Value_1_Ucount	0 - 255	[Ix] [Switch/Sensor] [Rising Edge] Constant Value (Integer)	0 - 255
	1 Byte	O	C - - T -	DPT_Scaling	0% - 100%	[Ix] [Switch/Sensor] [Rising Edge] Constant Value (Percentage)	0% - 100%
	2 Bytes	O	C - - T -	DPT_Value_2_Ucount	0 - 65535	[Ix] [Switch/Sensor] [Rising Edge] Constant Value (Integer)	0 - 65535
	2 Bytes	O	C - - T -	9.xxx	-671088.64 - 670433.28	[Ix] [Switch/Sensor] [Rising Edge] Constant Value (Float)	Float Value
365, 374	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%
	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	[Ix] [Switch/Sensor] [Rising Edge] Dimming Status (Input)	0% - 100%
	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	[Ix] [Switch/Sensor] [Rising Edge] Shutter Status (Input)	0% = Top; 100% = Bottom
	1 Bit	I	C - W T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] 0/1 Switching (Immediate Object)	Switching 0/1
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] 0 (Immediate Object)	Sending of 0
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Rising Edge] 1 (Immediate Object)	Sending of 1
366, 375	1 Bit	O	C R - T -	DPT_Alarm	0/1	[Ix] [Switch/Sensor] Alarm: Breakdown or Sabotage	1 = Alarm; 0 = No Alarm

367, 376	1 Bit	O	C - - T -	DPT_UpDown	0/1	[Ix] [Double Press] Move Up Shutter	Sending of 0 (Up)
	1 Bit	O	C - - T -	DPT_UpDown	0/1	[Ix] [Double Press] Move Down Shutter	Sending of 1 (Down)
	1 Bit	I	C - W T -	DPT_UpDown	0/1	[Ix] [Double Press] Move Up/Down Shutter	Switching 0/1 (Up/Down)
	1 Bit	O	C - - T -	DPT_Step	0/1	[Ix] [Double Press] Stop/Step Up Shutter	Sending of 0 (Stop/Step Up)
	1 Bit	O	C - - T -	DPT_Step	0/1	[Ix] [Double Press] Stop/Step Down Shutter	Sending of 1 (Stop/Step Down)
	1 Bit	I	C - W T -	DPT_Step	0/1	[Ix] [Double 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] [Double Press] Brighter	Increase Brightness
	4 Bit	O	C - - T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Double Press] Darker	Decrease Brightness
	4 Bit	I	C - W T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Double Press] Brighter/Darker	Switch Bright/Dark
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Double Press] Light On	Sending of 1 (On)
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Double Press] Light Off	Sending of 0 (Off)
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Double Press] Light On/Off	0/1
	1 Byte	O	C - - T -	DPT_Value_1_Ucount	0 - 255	[Ix] [Double Press] Constant Value (Integer)	0 - 255
	1 Byte	O	C - - T -	DPT_Scaling	0% - 100%	[Ix] [Double Press] Constant Value (Percentage)	0% - 100%
	2 Bytes	O	C - - T -	DPT_Value_2_Ucount	0 - 65535	[Ix] [Double Press] Constant Value (Integer)	0 - 65535
	2 Bytes	O	C - - T -	9.xxx	-671088.64 - 670433.28	[Ix] [Double Press] Constant Value (Float)	Float Value
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] 0	Sending of 0
	1 Bit	I	C - W T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] 0/1 Switching	Switching 0/1
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] 1	Sending of 1
	4 Bit	O	C - - T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Switch/Sensor] [Falling Edge] Brighter	Increase Brightness
	4 Bit	I	C - W T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Switch/Sensor] [Falling Edge] Brighter/Darker	Switch Bright/Dark
	2 Bytes	O	C - - T -	9.xxx	-671088.64 - 670433.28	[Ix] [Switch/Sensor] [Falling Edge] Constant Value (Float)	Float Value

	2 Bytes	O	**C - - T -**	DPT_Value_2_Ucount	0 - 65535	[Ix] [Switch/Sensor] [Falling Edge] Constant Value (Integer)	0 - 65535
	1 Byte	O	**C - - T -**	DPT_Value_1_Ucount	0 - 255	[Ix] [Switch/Sensor] [Falling Edge] Constant Value (Integer)	0 - 255
	1 Byte	O	**C - - T -**	DPT_Scaling	0% - 100%	[Ix] [Switch/Sensor] [Falling Edge] Constant Value (Percentage)	0% - 100%
	4 Bit	O	**C - - T -**	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Switch/Sensor] [Falling Edge] Darker	Decrease Brightness
	1 Bit	O	**C - - T -**	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] Light Off	Sending of 0 (Off)
	1 Bit	O	**C - - T -**	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] Light On	Sending of 1 (On)
	1 Bit	O	**C - - T -**	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] Light On/Off	0/1
	1 Bit	O	**C - - T -**	DPT_UpDown	0/1	[Ix] [Switch/Sensor] [Falling Edge] Move Down Shutter	Sending of 1 (Down)
	1 Bit	O	**C - - T -**	DPT_UpDown	0/1	[Ix] [Switch/Sensor] [Falling Edge] Move Up Shutter	Sending of 0 (Up)
	1 Bit	I	**C - W T -**	DPT_UpDown	0/1	[Ix] [Switch/Sensor] [Falling Edge] Move Up/Down Shutter	Switching 0/1 (Up/Down)
	1 Byte	O	**C - - T -**	DPT_SceneControl	0-63; 128-191	[Ix] [Switch/Sensor] [Falling Edge] Run Scene	Sending of 0 - 63
	1 Byte	O	**C - - T -**	DPT_SceneControl	0-63; 128-191	[Ix] [Switch/Sensor] [Falling Edge] Save Scene	Sending of 128 - 191
	1 Bit	O	**C - - T -**	DPT_Step	0/1	[Ix] [Switch/Sensor] [Falling Edge] Stop/Step Down Shutter	Sending of 1 (Stop/Step Down)
	1 Bit	I	**C - W T -**	DPT_Step	0/1	[Ix] [Switch/Sensor] [Falling Edge] Stop/Step Shutter (Switched)	Switching of 0/1 (Stop/Step Up/Down)
	1 Bit	O	**C - - T -**	DPT_Step	0/1	[Ix] [Switch/Sensor] [Falling Edge] Stop/Step Up Shutter	Sending of 0 (Stop/Step Up)
368, 377	1 Byte	I	**C - W - -**	DPT_Scaling	0% - 100%	[Ix] [Double Press] Shutter Status (Input)	0% = Top; 100% = Bottom
	1 Byte	I	**C - W - -**	DPT_Scaling	0% - 100%	[Ix] [Double Press] Dimming Status (Input)	0% - 100%
	1 Byte	I	**C - W - -**	DPT_Scaling	0% - 100%	[Ix] [Switch/Sensor] [Falling Edge] Dimming Status (Input)	0% - 100%
	1 Byte	I	**C - W - -**	DPT_Scaling	0% - 100%	[Ix] [Switch/Sensor] [Falling Edge] Shutter Status (Input)	0% = Top; 100% = Bottom
	1 Bit	O	**C - - T -**	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] 0 (Immediate Object)	Sending of 0
	1 Bit	O	**C - - T -**	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] 1 (Immediate Object)	Sending of 1
	1 Bit	I	**C - W T -**	DPT_Switch	0/1	[Ix] [Switch/Sensor] [Falling Edge] 0/1 Switching (Immediate Object)	Switching 0/1

	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 - W T -**	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	I	**C - W 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	I	**C - W 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
369, 378	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	I	**C - W 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	O	**C - - T -**	DPT_Switch	0/1	[Ix] [Long Press] Light On/Off	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 Byte	O	**C - - T -**	DPT_Value_1_Ucount	0 - 255	[Ix] [Long Press] Constant Value (Integer)	0 - 255
	1 Byte	O	**C - - T -**	DPT_Scaling	0% - 100%	[Ix] [Long Press] Constant Value (Percentage)	0% - 100%
	2 Bytes	O	**C - - T -**	DPT_Value_2_Ucount	0 - 65535	[Ix] [Long Press] Constant Value (Integer)	0 - 65535
	2 Bytes	O	**C - - T -**	9.xxx	-671088.64 - 670433.28	[Ix] [Long Press] Constant Value (Float)	Float Value
	1 Bit	O	**C - - T -**	DPT_Step	0/1	[Ix] [Triple Press] Stop/Step Up Shutter	Sending of 0 (Stop/Step Up)
	1 Bit	I	**C - W T -**	DPT_Step	0/1	[Ix] [Triple Press] Stop/Step Shutter (Switched)	Switching of 0/1 (Stop/Step Up/Down)
	1 Bit	O	**C - - T -**	DPT_Step	0/1	[Ix] [Triple Press] Stop/Step Down Shutter	Sending of 1 (Stop/Step Down)
	1 Byte	O	**C - - T -**	DPT_SceneControl	0-63; 128-191	[Ix] [Triple Press] Save Scene	Sending of 128 - 191
	1 Byte	O	**C - - T -**	DPT_SceneControl	0-63; 128-191	[Ix] [Triple Press] Run Scene	Sending of 0 - 63

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	1 Bit	I	C - W T -	DPT_UpDown	0/1	[Ix] [Triple Press] Move Up/Down Shutter	Switching 0/1 (Up/Down)
	1 Bit	O	C - - T -	DPT_UpDown	0/1	[Ix] [Triple Press] Move Up Shutter	Sending of 0 (Up)
	1 Bit	O	C - - T -	DPT_UpDown	0/1	[Ix] [Triple Press] Move Down Shutter	Sending of 1 (Down)
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Triple Press] Light On/Off	0/1
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Triple Press] Light On	Sending of 1 (On)
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Triple Press] Light Off	Sending of 0 (Off)
	4 Bit	O	C - - T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Triple Press] Darker	Decrease Brightness
	1 Byte	O	C - - T -	DPT_Scaling	0% - 100%	[Ix] [Triple Press] Constant Value (Percentage)	0% - 100%
	2 Bytes	O	C - - T -	DPT_Value_2_Ucount	0 - 65535	[Ix] [Triple Press] Constant Value (Integer)	0 - 65535
	1 Byte	O	C - - T -	DPT_Value_1_Ucount	0 - 255	[Ix] [Triple Press] Constant Value (Integer)	0 - 255
	2 Bytes	O	C - - T -	9.xxx	-671088.64 - 670433.28	[Ix] [Triple Press] Constant Value (Float)	Float Value
	4 Bit	I	C - W T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Triple Press] Brighter/Darker	Switch Bright/Dark
	4 Bit	O	C - - T -	DPT_Control_Dimming	0x0/0x8 (Stop) 0x1...0x7 (Dec.) 0x9...0xF (Inc.)	[Ix] [Triple Press] Brighter	Increase Brightness
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Triple Press] 1	Sending of 1
	1 Bit	I	C - W T -	DPT_Switch	0/1	[Ix] [Triple Press] 0/1 Switching	Switching 0/1
	1 Bit	O	C - - T -	DPT_Switch	0/1	[Ix] [Triple Press] 0	Sending of 0
370, 379	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
	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	[Ix] [Triple Press] Shutter Status (Input)	0% = Top; 100% = Bottom
	1 Byte	I	C - W - -	DPT_Scaling	0% - 100%	[Ix] [Triple Press] Dimming Status (Input)	0% - 100%
371, 380	1 Bit	O	C - - T -	DPT_Trigger	0/1	[Ix] [Long Press/Release] Stop Shutter	Release -> Stop Shutter

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