



RailQUAD 8

Analogue/Digital Multifunction Input Module for DIN rail

ZIO-RQUAD8

Application program version: [1.1]

User manual edition: [1.1]_a

www.zennio.com

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DOCUMENT UPDATES

Version	Changes	Page(s)
[1.1]_a	Changes in the application program: <ul style="list-style-type: none">• Support for custom NTC probes.• Heartbeat functionality added.	-
	Support for custom NTC probes.	4, 8

1 INTRODUCTION

1.1 RailQUAD 8

RailQUAD 8 is an analogue / digital input module from **Zennio** featuring eight separate inputs, each configurable as:

- **Binary Input.**
- **Temperature probe**, either models provided by Zennio or other NTC temperature probes from other suppliers, being in that case possible to configure their parameters in ETS.
- **Motion detector.**

Moreover, RailQUAD 8 implements **eight independent thermostats**, which can be enabled and configured separately.

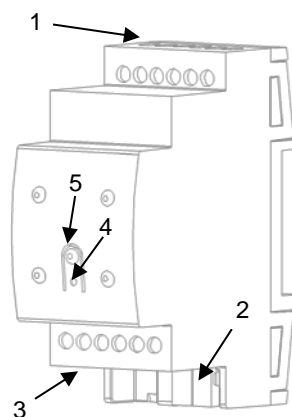
In sum, RailQUAD 8 is an updated version of the popular QUAD from Zennio, with twice the number of inputs and intended to be installed on a DIN rail

1.2 INSTALLATION

RailQUAD 8 is connected to the KNX bus through the incorporated terminal connector.

Once powered through the KNX bus, the device may be downloaded both, an individual address or the application program.

This device does not need any additional external power since it is entirely powered through the KNX bus.



1. Analogue/digital inputs 1 to 4
2. KNX bus connector
3. Analogue/digital inputs 5 to 8
4. Prog./Test LED
5. Prog./Test button

Figure 1 RailQUAD 8. Element diagram.

The main elements are described next:

- **Prog./Test Pushbutton (5):** a short press on this button sets the device into the programming mode, making the associated LED (4) light in red.

Note: if this button is held while plugging the device into the KNX bus, the device will enter into **safe mode**. In such case, the LED will blink in red every 0.5 seconds.

- **Inputs (1)(3):** input ports for the insertion of the stripped cables of external elements such as switches / motion detectors / temperature probes, etc. One of the two cables of each element needs to be connected to one of the slots labelled “1” to “8”, while the other cable should be connected to the slot labelled as “C”. Note that all the external input devices share the “C” slot for

one of the two cables. Please secure the connection by means of the on-board screws.

To obtain further information about the technical features of RailQUAD 8 and on security and installation procedures, please refer to the **Datasheet** of the device, bundled with the original packaging and also available at the Zennio website, <http://www.zennio.com>.

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 right-clicking into the device and selecting *Edit parameters*.

ETS PARAMETERISATION

The only parameterisable screen available by default is General. From this screen it is possible to activate/deactivate all the required functionality.

Parameter	Status
Heartbeat (Periodical Alive Notification)	<input type="checkbox"/>
Input 1	Disabled
Input 2	Disabled
Input 3	Disabled
Input 4	Disabled
Input 5	Disabled
Input 6	Disabled
Input 7	Disabled
Input 8	Disabled
Thermostat 1	<input type="checkbox"/>
Thermostat 2	<input type="checkbox"/>
Thermostat 3	<input type="checkbox"/>
Thermostat 4	<input type="checkbox"/>
Thermostat 5	<input type="checkbox"/>
Thermostat 6	<input type="checkbox"/>
Thermostat 7	<input type="checkbox"/>
Thermostat 8	<input type="checkbox"/>

Figure 2 General.

- **Heartbeat (Periodical Alive Notification):** enables the “[Heartbeat] Object to Send ‘1’” one-bit object, which will be sent with a value of “1” and a

configurable period to notify that the device is still working (still alive).

- **Input x**: sets the type of input number “x”: “Binary Input”, “Temperature Probe” or “Motion Detector”. If such input is not required, it can be left as “Disabled”.
- **Thermostat x**: enables or disables thermostat number “x”.

One entry per input or thermostat will be included into the tab tree on the left.

2.2 INPUTS

RailQUAD 8 incorporates **eight analogue/digital inputs**, each configurable as a:

- **Binary input**, for the connection of a pushbutton or a switch/sensor.
- **Temperature probe**, to connect a temperature sensor, either models ZN1AC-NTC68 S/E/F and SQ-AmbienT from Zennio or NTC probes from third parties (the latter requires configuring their parameters in ETS).
- **Motion detector**, to connect a motion detector (models ZN1IO-DETEC-P and ZN1IO-DETEC-X from Zennio).

Important: *older models of the Zennio motion detector (e.g., ZN1IO-DETEC and ZN1IO-DETEC-N) will not work properly with this device*

2.2.1 BINARY INPUT

Please refer to the specific user manual “**Binary Inputs**”, available in the RailQUAD 8 product section at the Zennio website, <http://www.zennio.com>.

2.2.2 TEMPERATURE PROBE

Please refer to the specific user manual “**Temperature Probe**”, available in the RailQUAD 8 product section at the Zennio website, <http://www.zennio.com>.

2.2.3 MOTION DETECTOR

It is possible to connect motion detectors (models **ZN110-DETEC-P** and **ZN110-DETEC-X** from Zennio) to the input ports of RailQUAD 8. This brings the device with the possibility of monitoring motion and presence in the room, as well as the light level. Depending on the detection, different response actions can be parameterised.

Please refer to the “**Motion Detector**” user manual, available under the RailQUAD 8 product section at the Zennio website (www.zennio.com), for detailed information about the functionality and the configuration of the related parameters.

Notes:

- *The ZN110-DETEC-P motion detector is compatible with a variety of Zennio devices. However, depending on the device it is actually being connected to, the functionality may differ slightly. Therefore, please refer specifically to the aforementioned user manual.*
- *Motion detectors with references ZN110-DETEC and ZN110-DETEC-N are **not compatible** with RailQUAD 8 (may report inaccurate measurements if connected to this device).*
- *When connected to RailQUAD 8, the rear micro-switch of model ZN110-DETEC-P should be set to position “**Type B**”.*

2.3 THERMOSTATS

RailQUAD 8 allows independently enabling and configuring **up to eight thermostat** functions, with independence of the number of the inputs that have been configured.

Please refer to the specific “**Zennio Thermostat**” user manual available under the RailQUAD 8 product section at the Zennio homepage (www.zennio.com) for detailed information about the functionality and the 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 Byte	I	C - - W -	DPT_SceneControl	0-63; 128-191	[Heartbeat] Object to Send '1'	Sending of '1' Periodically
2	1 Byte	I	C - - W -	DPT_SceneControl	0-63; 128-191	[Thermostat] Scene Input	Scene Value
3, 33, 63, 93, 123, 153, 183, 213	2 Bytes	I	C - - W -	DPT_Value_Temp	-273,00 - 670760,00	[Tx] Temperature Source 1	External Sensor Temperature
4, 34, 64, 94, 124, 154, 184, 214	2 Bytes	I	C - - W -	DPT_Value_Temp	-273,00 - 670760,00	[Tx] Temperature Source 2	External Sensor Temperature
5, 35, 65, 95, 125, 155, 185, 215	2 Bytes	O	C T R - -	DPT_Value_Temp	-273,00 - 670760,00	[Tx] Effective Temperature	Effective Control Temperature
6, 36, 66, 96, 126, 156, 186, 216	1 Byte	I	C - - W -	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Tx] Special Mode	1-byte HVAC Mode
7, 37, 67, 97, 127, 157, 187, 217	1 Bit	I	C - - W -	DPT_Switch	0/1	[Tx] Special Mode: comfort	0 = Off; 1 = On
	1 Bit	I	C - - W -	DPT_Trigger	0/1	[Tx] Special Mode: comfort	0 = Nothing; 1 = Trigger
8, 38, 68, 98, 128, 158, 188, 218	1 Bit	I	C - - W -	DPT_Trigger	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
9, 39, 69, 99, 129, 159, 189, 219	1 Bit	I	C - - W -	DPT_Switch	0/1	[Tx] Special Mode: economy	0 = Off; 1 = On
	1 Bit	I	C - - W -	DPT_Trigger	0/1	[Tx] Special Mode: economy	0 = Nothing; 1 = Trigger
10, 40, 70, 100, 130, 160, 190, 220	1 Bit	I	C - - W -	DPT_Trigger	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
11, 41, 71, 101, 131, 161, 191, 221	1 Bit	I	C - - W -	DPT_Window_Door	0/1	[Tx] Window Status (input)	0 = Closed; 1 = Open
12, 42, 72, 102, 132, 162, 192, 222	1 Bit	I	C - - W -	DPT_Trigger	0/1	[Tx] Comfort Prolongation	0 = Nothing; 1 = Timed Comfort
13, 43, 73, 103, 133, 163, 193, 223	1 Byte	O	C T R - -	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building	[Tx] Special Mode Status	1-byte HVAC Mode

					Protection		
14, 44, 74, 104, 134, 164, 194, 224	2 Bytes	I	C - - W -	DPT_Value_Temp	-273,00 - 670760,00	[Tx] Setpoint	Thermostat Setpoint Input
	2 Bytes	I	C - - W -	DPT_Value_Temp	-273,00 - 670760,00	[Tx] Basic Setpoint	Reference Setpoint
15, 45, 75, 105, 135, 165, 195, 225	1 Bit	I	C - - W -	DPT_Step	0/1	[Tx] Setpoint Step	0 = -0.5°C; 1 = +0.5°C
16, 46, 76, 106, 136, 166, 196, 226	2 Bytes	I	C - - W -	DPT_Value_Tempd	-670760,00 - 670760,00	[Tx] Setpoint Offset	Float Offset Value
17, 47, 77, 107, 137, 167, 197, 227	2 Bytes	O	C T R - -	DPT_Value_Temp	-273,00 - 670760,00	[Tx] Setpoint Status	Current Setpoint
18, 48, 78, 108, 138, 168, 198, 228	2 Bytes	O	C T R - -	DPT_Value_Temp	-273,00 - 670760,00	[Tx] Basic Setpoint Status	Current Basic Setpoint
19, 49, 79, 109, 139, 169, 199, 229	2 Bytes	O	C T R - -	DPT_Value_Tempd	-670760,00 - 670760,00	[Tx] Setpoint Offset Status	Current Setpoint Offset
20, 50, 80, 110, 140, 170, 200, 230	1 Bit	I	C - - W -	DPT_Reset	0/1	[Tx] Offset Reset	Reset offset
	1 Bit	I	C - - W -	DPT_Reset	0/1	[Tx] Setpoint Reset	Reset Setpoint to Default
21, 51, 81, 111, 141, 171, 201, 231	1 Bit	I	C - - W -	DPT_Heat_Cool	0/1	[Tx] Mode	0 = Cool; 1 = Heat
22, 52, 82, 112, 142, 172, 202, 232	1 Bit	O	C T R - -	DPT_Heat_Cool	0/1	[Tx] Mode Status	0 = Cool; 1 = Heat
23, 53, 83, 113, 143, 173, 203, 233	1 Bit	I	C - - W -	DPT_Switch	0/1	[Tx] On/Off	0 = Off; 1 = On
24, 54, 84, 114, 144, 174, 204, 234	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] On/Off Status	0 = Off; 1 = On
25, 55, 85, 115, 145, 175, 205, 235	1 Byte	O	C T R - -	DPT_Scaling	0% - 100%	[Tx] Control Variable (Cool)	PI Control (Continuous)
26, 56, 86, 116, 146, 176, 206, 236	1 Byte	O	C T R - -	DPT_Scaling	0% - 100%	[Tx] Control Variable (Heat)	PI Control (Continuous)
27, 57, 87, 117, 147, 177, 207, 237	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] Control Variable (Cool)	2-Point Control
	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] Control Variable (Cool)	PI Control (PWM)
28, 58, 88, 118, 148, 178, 208, 238	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] Control Variable (Heat)	PI Control (PWM)
	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] Control Variable (Heat)	2-Point Control
29, 59, 89, 119, 149, 179, 209, 239	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] Additional Cool	Temp >= (Setpoint+Band) => "1"
30, 60, 90, 120, 150, 180, 210, 240	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] Additional Heat	Temp <= (Setpoint-Band) => "1"
31, 61, 91, 121, 151, 181, 211, 241	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] PI State (Cool)	0 = PI signal 0%; 1 = PI signal greater than 0%
32, 62, 92, 122,	1 Bit	O	C T R - -	DPT_Switch	0/1	[Tx] PI State (Heat)	0 = PI signal 0%; 1 = PI signal greater than 0%

152, 182, 212, 242							
243, 247, 251, 255, 259, 263, 267, 271	2 Bytes	O	CTR--	DPT_Value_Temp	-273,00 - 670760,00	[Ix] Input Lock	1 = Locked; 0 = Unlocked
244, 248, 252, 256, 260, 264, 268, 272	1 Bit	O	CTR--	DPT_Alarm	0/1	[Ix] [Short Press] 0	Sending of 0
245, 249, 253, 257, 261, 265, 269, 273	1 Bit	O	CTR--	DPT_Alarm	0/1	[Ix] [Short Press] 1	Sending of 1
274, 280, 286, 292, 298, 304, 310, 316	1 Bit	O	CTR--	DPT_Alarm	0/1	[Ix] [Short Press] 0/1 Switching	Switching 0/1
275, 281, 287, 293, 299, 305, 311, 317	1 Bit	I	C--W-	DPT_Switch	0/1	[Ix] [Short Press] Move Up Shutter	Sending of 0 (Up)
276, 282, 288, 294, 300, 306, 312, 318	1 Bit		CT---	DPT_Switch	0/1	[Ix] [Short Press] Move Down Shutter	Sending of 1 (Down)
	1 Bit		CT---	DPT_Switch	0/1	[Ix] [Short Press] Move Up/Down Shutter	Switching 0/1 (Up/Down)
	1 Bit	I	CT-W-	DPT_Switch	0/1	[Ix] [Short Press] Stop/Step Up Shutter	Sending of 0 (Stop/Step Up)
	1 Bit		CT---	DPT_UpDown	0/1	[Ix] [Short Press] Stop/Step Down Shutter	Sending of 1 (Stop/Step Down)
	1 Bit		CT---	DPT_UpDown	0/1	[Ix] [Short Press] Stop/Step Shutter (Switched)	Switching of 0/1 (Stop/Step Up/Down)
	1 Bit		CT---	DPT_UpDown	0/1	[Ix] [Short Press] Brighter	Increase Brightness
	1 Bit		CT---	DPT_Step	0/1	[Ix] [Short Press] Darker	Decrease Brightness
	1 Bit		CT---	DPT_Step	0/1	[Ix] [Short Press] Brighter/Darker	Switch Bright/Dark
	1 Bit		CT---	DPT_Step	0/1	[Ix] [Short Press] Dimmer ON	Sending of 1 (ON)
	4 Bit		CT---	DPT_Control_Dimming	0x0 (Stop) 0x1 (Dec. by 100%) ... 0x7 (Dec. by 1%) 0x8 (Stop) 0x9 (Inc. by 100%) ... 0xF (Inc. by 1%)	[Ix] [Short Press] Dimmer OFF	Sending of 0 (OFF)
	4 Bit		CT---	DPT_Control_Dimming	0x0 (Stop) 0x1 (Dec. by 100%) ... 0x7 (Dec. by 1%) 0x8 (Stop) 0x9 (Inc. by 100%) ... 0xF (Inc. by 1%)	[Ix] [Short Press] Dimmer ON/OFF	Switching 0/1
	4 Bit		CT---	DPT_Control_Dimming	0x0 (Stop) 0x1 (Dec. by 100%)	[Ix] [Short Press] Run Scene	Sending of 0 - 63

				... 0x7 (Dec. by 1%) 0x8 (Stop) 0x9 (Inc. by 100%) ... 0xF (Inc. by 1%)		
	1 Bit		CT---	DPT_Switch	0/1	[Ix] [Short Press] Save Scene Sending of 128 - 191
	1 Bit		CT---	DPT_Switch	0/1	[Ix] [Switch/Sensor] Edge Sending of 0 or 1
	1 Bit	I	CT-W-	DPT_Switch	0/1	[Ix] [Short Press] Constant Value (Integer) 0 - 255
	1 Byte		CT---	DPT_SceneControl	0-63; 128-191	[Ix] [Short Press] Constant Value (Percentage) 0% - 100%
	1 Byte		CT---	DPT_SceneControl	0-63; 128-191	[Ix] [Short Press] Constant Value (Integer) 0 - 65535
	1 Bit	I/O	CTRW-	DPT_Switch	0/1	[Ix] [Short Press] Constant Value (Float) Float value
	1 Byte		CT---	DPT_Value_1_Ucount	0 - 255	[Ix] [Short Press] Shutter Status (Input) 0% = Top; 100% = Bottom
	1 Byte		CT---	DPT_Scaling	0% - 100%	[Ix] [Short Press] Dimming Status (Input) 0% - 100%
	2 Bytes		CT---	DPT_Value_2_Ucount	0 - 65535	[Ix] [Long Press] 0 Sending of 0
	2 Bytes		CT---	9.xxx	-671088.64 - 670760.96	[Ix] [Long Press] 1 Sending of 1
277, 283, 289, 295, 301, 307, 313, 319	1 Byte	I	CT-W-	DPT_Scaling	0% - 100%	[Ix] [Long Press] 0/1 Switching Switching 0/1
	1 Byte	I	CT-W-	DPT_Scaling	0% - 100%	[Ix] [Long Press] Move Up Shutter Sending of 0 (Up)
	1 Bit		CT---	DPT_Switch	0/1	[Ix] [Long Press] Move Down Shutter Sending of 1 (Down)
	1 Bit		CT---	DPT_Switch	0/1	[Ix] [Long Press] Move Up/Down Shutter Switching 0/1 (Up/Down)
	1 Bit	I	CT-W-	DPT_Switch	0/1	[Ix] [Long Press] Stop/Step Up Shutter Sending of 0 (Stop/Step Up)
	1 Bit		CT---	DPT_UpDown	0/1	[Ix] [Long Press] Stop/Step Down Shutter Sending of 1 (Stop/Step Down)
	1 Bit		CT---	DPT_UpDown	0/1	[Ix] [Long Press] Stop/Step Shutter (Switched) Switching of 0/1 (Stop/Step Up/Down)
	1 Bit		CT---	DPT_UpDown	0/1	[Ix] [Long Press] Brighter Long Pr. -> Brighter; Release -> Stop
	1 Bit		CT---	DPT_Step	0/1	[Ix] [Long Press] Darker Long Pr. -> Darker; Release -> Stop
	1 Bit		CT---	DPT_Step	0/1	[Ix] [Long Press] Brighter/Darker Long Pr. -> Brighter/Darker; Release -> Stop
	1 Bit		CT---	DPT_Step	0/1	[Ix] [Long Press] Dimmer ON Sending of 1 (ON)
278, 284, 290, 296, 302, 308, 314, 320	4 Bit		CT---	DPT_Control_Dimming	0x0 (Stop) 0x1 (Dec. by 100%) ... 0x7 (Dec. by 1%) 0x8 (Stop) 0x9 (Inc. by 100%) ... 0xF (Inc. by 1%)	[Ix] [Long Press] Dimmer OFF Sending of 0 (OFF)
	4 Bit		CT---	DPT_Control_Dimming	0x0 (Stop)	[Ix] [Long Press] Dimmer ON/OFF Switching 0/1

				0x1 (Dec. by 100%) ... 0x7 (Dec. by 1%) 0x8 (Stop) 0x9 (Inc. by 100%) ... 0xF (Inc. by 1%)			
	4 Bit		CT----	DPT_Control_Dimming	0x0 (Stop) 0x1 (Dec. by 100%) ... 0x7 (Dec. by 1%) 0x8 (Stop) 0x9 (Inc. by 100%) ... 0xF (Inc. by 1%)	[Ix] [Long Press] Run Scene	Sending of 0 - 63
	1 Bit		CT----	DPT_Switch	0/1	[Ix] [Long Press] Save Scene	Sending of 128 - 191
	1 Bit		CT----	DPT_Switch	0/1	[Ix] [Switch/Sensor] Alarm: Breakdown or sabotage	1 = Alarm; 0 = No Alarm
	1 Bit	I	CT-W-	DPT_Switch	0/1	[Ix] [Long Press] Constant Value (Float)	Float value
	1 Byte		CT----	DPT_SceneControl	0-63; 128-191	[Ix] [Long Press] Constant Value (Integer)	0 - 65535
	1 Byte		CT----	DPT_SceneControl	0-63; 128-191	[Ix] [Long Press] Constant Value (Percentage)	0% - 100%
	1 Bit	O	CTR--	DPT_Alarm	0/1	[Ix] [Long Press] Constant Value (Integer)	0 - 255
	2 Bytes		CT----	9.xxx	-671088.64 - 670760.96	[Ix] [Long Press/Release] Stop Shutter	Release -> Stop Shutter
	2 Bytes		CT----	DPT_Value_2_Ucount	0 - 65535	[Ix] [Long Press] Dimming Status (Input)	0% - 100%
	1 Byte		CT----	DPT_Scaling	0% - 100%	[Ix] [Long Press] Shutter Status (Input)	0% = Top; 100% = Bottom
	1 Byte		CT----	DPT_Value_1_Ucount	0 - 255	[Ix] Input Lock	1 = Locked; 0 = Unlocked
279, 285, 291, 297, 303, 309, 315, 321	1 Bit		CT----	DPT_Trigger	0/1	[Ix] [Short Press] 0	Sending of 0
280, 286, 292, 298, 304, 310, 316, 322	1 Byte	I	C--W-	DPT_Scaling	0% - 100%	[Ix] [Short Press] 1	Sending of 1
	1 Byte	I	C--W-	DPT_Scaling	0% - 100%	[Ix] [Short Press] 0/1 Switching	Switching 0/1
323	1 Byte	I	C--W-	DPT_SceneControl	0-63; 128-191	[Motion Detector] Scene Input	Scene Value
324	1 Byte		CT----	DPT_SceneControl	0-63; 128-191	[Motion Detector] Scene Output	Scene Value
325, 354, 383, 412, 441, 470, 499, 528	1 Byte	O	CTR--	DPT_Scaling	0% - 100%	[Ix] Luminosity	0-100%
326, 355, 384, 413, 442, 471, 500, 529	1 Bit	O	CTR--	DPT_Alarm	0/1	[Ix] Open Circuit Error	0 = No Error; 1 = Open Circuit Error
327, 356, 385, 414,	1 Bit	O	CTR--	DPT_Alarm	0/1	[Ix] Short Circuit Error	0 = No Error; 1 = Short Circuit Error

443, 472, 501, 530							
328, 357, 386, 415, 444, 473, 502, 531	1 Byte	O	CTR--	DPT_Scaling	0% - 100%	[Ix] Presence State (Scaling)	0-100%
329, 358, 387, 416, 445, 474, 503, 532	1 Byte	O	CTR--	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Ix] Presence State (HVAC)	Auto, Comfort, Standby, Economy, Building Protection
330, 359, 388, 417, 446, 475, 504, 533	1 Bit	O	CTR--	DPT_Occupancy	0/1	[Ix] Presence State (Binary)	Binary Value
331, 360, 389, 418, 447, 476, 505, 534	1 Bit	O	CTR--	DPT_Trigger	0/1	[Ix] Presence: Slave Output	1 = Motion Detected
332, 361, 390, 419, 448, 477, 506, 535	1 Bit	I	C--W-	DPT_Window_Door	0/1	[Ix] Presence Trigger	Binary Value to Trigger the Presence Detection
333, 362, 391, 420, 449, 478, 507, 536	1 Bit	I	C--W-	DPT_Trigger	0/1	[Ix] Presence: Slave Input	0 = Nothing; 1 = Detection from slave device
334, 363, 392, 421, 450, 479, 508, 537	2 Bytes	I	C--W-	DPT_TimePeriodSec	0-65535	[Ix] Presence: Waiting Time	0-65535 s.
335, 364, 393, 422, 451, 480, 509, 538	2 Bytes	I	C--W-	DPT_TimePeriodSec	0-65535	[Ix] Presence: Listening Time	1-65535 s.
336, 365, 394, 423, 452, 481, 510, 539	1 Bit	I	C--W-	DPT_Switch	0/1	[Ix] Presence: Enable	According to parameters
337, 366, 395, 424, 453, 482, 511, 540	1 Bit	I	C--W-	DPT_Switch	0/1	[Ix] Presence: Day/Night	According to parameters
338, 343, 348, 367, 372, 377, 396, 401, 406, 425, 430, 435, 454, 459, 464, 483, 488, 493, 512, 517, 522, 541, 546, 551	1 Bit	O	CTR--	DPT_Occupancy	0/1	[Ix] Presence: Occupancy State	0 = Not Occupied; 1 = Occupied
338, 367, 396, 425, 454, 483, 512, 541	1 Bit	I	C--W-	DPT_Trigger	0/1	[Ix] External Motion Detection	0 = Nothing; 1 = Motion detected by an external sensor
339, 344, 349, 368, 373, 378, 397, 402, 407, 426, 431, 436, 455, 460, 465, 484, 489, 494, 513, 518, 523, 542, 547, 552	1 Byte	O	CTR--	DPT_Scaling	0% - 100%	[Ix] [Cy] Detection State (Scaling)	0-100%
340, 345, 350, 369, 374, 379, 398, 403, 408, 427, 432, 437, 456, 461, 466, 485, 490, 495, 514, 519,	1 Byte	O	CTR--	DPT_HVACMode	1=Comfort 2=Standby 3=Economy 4=Building Protection	[Ix] [Cy] Detection State (HVAC)	Auto, Comfort, Standby, Economy, Building Protection

524, 543, 548, 553							
341, 346, 351, 370, 375, 380, 399, 404, 409, 428, 433, 438, 457, 462, 467, 486, 491, 496, 515, 520, 525, 544, 549, 554	1 Bit	O	C T R - -	DPT_Switch	0/1	[Ix] [Cy] Detection State (Binary)	Binary Value
342, 347, 352, 371, 376, 381, 400, 405, 410, 429, 434, 439, 458, 463, 468, 487, 492, 497, 516, 521, 526, 545, 550, 555	1 Bit	I	C - - W -	DPT_Switch	0/1	[Ix] [Cy] Enable Channel	According to parameters
343, 348, 353, 372, 377, 382, 401, 406, 411, 430, 435, 440, 459, 464, 469, 488, 493, 498, 517, 522, 527, 546, 551, 556	1 Bit	I	C - - W -	DPT_Switch	0/1	[Ix] [Cy] Force State	0 = No Detection; 1 = Detection

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