



System Specifications

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Interworking

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Standard Identifier Tables

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Summary

This document gives the overview of the standardized identifiers in the KNX System.

Version 01.03.01 is a KNX Approved Standard.

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Document updates

Version	Date	Comments
AS 1.0	2002.01.03	Preparation of the Approved Standard.
AS 1.0	2006.04.10	Added PDT to Property overview.
AS 1.0	2007.01.15	• AN039 “Property Datatypes” integrated.
AS 1.0	2007.10.02	• S12 “Channel Codes” integrated: list of Channel Codes and Connection Codes
AS 1.0	2007.10.05	• AN051 “New channels” integrated.
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References

- [01] Chapter 3/5/1 “Resources”
- [02] Chapter 3/5/2 “Management Procedures”
- [03] Chapter 3/7/2 “Datapoint Types”
- [04] Chapter 7/1/1 “System Clock”
- [05] Chapter 7/1/2 “Common Sensors”
- [06] Chapter 7/1/3 “Common Schedulers and Controllers”
- [07] Chapter 7/1/4 “Technical Alarm”
- [08] Chapter 7/1/5 “General purpose I/O”
- [09] Chapter 7/1/11 “Common Channels”
- [10] Chapter 7/1/12 “Adjustable Channels”
- [11] Chapter 7/10/1 “HVAC Sensor Functional Blocks”
- [12] Chapter 7/10/2 “HVAC HMI Functional Blocks”
- [13] Chapter 7/10/3 “HVAC Actuator Functional Blocks”
- [14] Chapter 7/10/4 “HVAC Common Functional Blocks”
- [15] Chapter 7/10/5 “HVAC Scheduler Functional Blocks”
- [16] Chapter 7/10/9 “Property Identifiers” (GVAC General)
- [17] Chapter 7/10/11 “HVAC Channels”
- [18] Chapter 7/11/2 “Heat Distribution”
- [19] Chapter 7/11/3 “Domestic Hot Water Control”
- [20] Chapter 7/11/4 “Room Heating Control”
- [21] Chapter 7/13/1 “Terminal Unit Controller”
- [22] Chapter 7/13/2 “Terminal Unit Transformer”
- [23] Chapter 7/14/1 “VAC Ventilation, Air Conditioning”
- [24] Chapter 7/14/2 “VAC Cold Water”
- [25] Chapter 7/14/11 “VAC E-Mode Channels”
- [26] Chapter 7/20/1 “Lighting Sensors”
- [27] Chapter 7/20/2 “Lighting Actuators”
- [28] Chapter 7/20/11 “Lighting Channels”
- [29] Chapter 7/50/1 “Shutters and Blinds Sensors”
- [30] Chapter 7/50/2 “Shutters and Blinds Actuators”
- [31] Chapter 7/50/11 “Shutters and Blinds Channels”
- [32] Chapter 7/60/1 “Metering M-Bus Data Collector Functional Blocks”
- [33] Chapter 7/60/11 “Metering E-Mode Channels” v01.00.01

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1 Introduction

This Chapter lists all standardized identifiers for Interface Object Types, Property Identifiers, Property Datatypes (used in Interface Objects) and Datapoint Types.

NOTE New types of identifiers, resulting from system extensions, will be added to this document in the future.

The assignment of these identifiers is the responsibility of the KNX Association.

The KNX System evolves by extensions to the system, the use of the system and the applications that are covered. Therefore, it is likely that new Identifiers are assigned that are not yet reported in this version of this document. Developers should therefore consult KNX Association for possible up-to-date identifiers (<http://www.knx.org>).

2 Interface Object Types

2.1 Assignment scheme

Object Type	Reserved for
0 99	Standardized System Interface Object Types These identifiers unambiguously identify one given object type. They identify System Interface Objects for Network- and Device Management. <i>These object types are assigned by the KNX Association.</i>
100 50000	Standardized Application Interface Object Types These identifiers unambiguously identify one given object type. They identify Application Interface Objects. If the Interface Object is the implementation of a Functional Block, the object type identifiers shall be available as Object-Type Property. <i>These object types are assigned by the KNX Association.</i>
50001 65535	Non-standardized Interface Object Types These types shall be used for non-standardized, this is manufacturer specific, Interface Objects.

2.2 Overview System Interface Objects

Table 1 - Identifiers for System Interface Object Types

Object Type [U ₁₆]	Object Name
0	Device Object
1	Addresstable Object
2	Associationtable Object
3	Applicationprogram Object
4	Interfaceprogram Object
5	KNX-Object Associationtable Object
6	Router Object
7	LTE Address Routing Table Object
8	cEMI Server Object
9	Group Object Table Object
10	Polling Master
11	KNXnet/IP Parameter Object
12	Reserved. Shall not be used.
13	File Server Object
	Further Object Types of System Interface Objects and Interface Objects implementing Functional Blocks will be added here.

Values not listed in Table 1 are reserved and shall not be used.

2.3 Overview Application Interface Objects

2.3.1 Assignment scheme

The Interface Object Types for Application Interface Object Types are grouped according the Application Domain, according the scheme given in Table 2 below.

Table 2 - Object Type ranges for applications

Object Type Range		Application Domain
Start value	End value	
100	399	HVAC
400	599	Lighting
600	799	HVAC (sensors and actuators)
800	999	Shutters and Blinds
1000	1100	FOCI's
1101	1199	Metering
1200	1249	OpenTherm
1250	3499	Reserved. Shall not be used.
3500	3799	White Goods
3800	3999	Reserved. Shall not be used.
4000	4199	White Goods

More ranges can be requested for other applications.

2.3.2 Overview assigned Object Types for Application Interface Objects

Application Interface Objects are used to identify and implement Functional Blocks. Each Functional Block is assigned one Interface Object Type. This is done by KNX Association.

Interface Object Type	Functional Block	Reference
100	Room Setpoint Manager HVAC-Mode Driven	[14]
101	Room Setpoint Manager Temperature Driven	[14]
102	Setpoint Manager Air Quality	[14]
103	Setpoint Manager Relative Humidity	[14]
104	Program to HVAC Mode Conversion	[14]
108	HVAC Emergency Source	[14]
109	Building/Occ-Mode Source	[14]
110	HVAC Mode Scheduler	[15]
111	DHW Mode Scheduler	[15]
112	DHW Circulation Pump Scheduler	[15]
113	Absolute Room Temperature Setpoint Scheduler	[15]
115	HVAC Optimiser	[14]
120	Flow Temperature Controller	[18]
128	Burner Controller	[18]
129	Boiler Controller	[18]
136	Heat Producer Manager	[18]
137	Heat Producer Manager for BST	[18]

Interface Object Type	Functional Block	Reference
138	HPM for BST in Boiler sub-cascade	[18]
144	Heat Flow Demand Manager	[18]
145	Auxiliary Heat Demand	[20]
146	Auxiliary Heating Demand Percent	None.
151	Heating Demand Transformer Room Temperature	[20]
152	Heating Demand Transformer for Air Handling Units	None.
153	Radiator Heating Energy Demand Transformer TU	[22]
154	Air Heater Energy Demand Transformer TU	[22]
160	Heating Zone Controller	[20]
167	Heating Individual Room Controller	[20]
169	Heating Demand Transformer Actuator Position	[20]
170	Heating Room Demand Manager	[20]
176	Domestic Hot Water Setpoint Manager	[19]
177	Domestic Hot Water Controller	[19]
179	DHW Circulation Pump Controller	[19]
180	DHW Temperature Sensor	[19]
181	DHW User Settings	[19]
186	Solar Domestic Hot Water Controller	[19]
187	Collector Temperature Sensor	[19]
192	Chiller Controller	[24]
199	Cold Water Poducer Manager	[24]
200	Re-Cooling Control	[24]
208	Cooling Flow Demand Manager	[24]
209	Auxiliary Cooling Demand	[24]
210	Auxiliary Cooling Demand Percent	None.
215	Cooling Demand Transformer for Air Handling Units	None.
216	Chilled Ceiling Energy Demand Transformer TU	[22]
217	Air Cooler Energy Demand Transformer TU	[22]
224	Cooling Zone Controller	[24]
240	Air Handling Unit Controller	[23]
241	Supply Air Temperature Controller	[23]
248	Ventilation Demand Transformer TU	[22]
256	Radiator Room Control TU	[21]
257	Radiator and Chilled Ceiling Room Control	[21]
258	Fancoil Control	[21]
259	Water Heat Pump Control for Ringwater	[21]
260	Split Unit Control	[21]
261	VAV Control Discharge Air	[21]
262	VAV Control Extract Air	[21]
263	Heating and Cooling Individual Room Controller	None.
264	Cooling Demand Transformer Room Temperature	None.
295	KNX to Fil Pilote Converter (KFP)	[17]
320	Outside Temperature Sensor	[11]
321	Room Temperature Sensor	[11]
322	Supply Air Temperature Sensor	[11]
323	Return Air Temperature Sensor	[11]
324	Flow Water Temperature Sensor	[11]
325	Return Water Temperature Sensor	[11]
326	Condenser Flow Water Temperature Sensor	[11]
327	Condenser Return Water Temperature Sensor	[11]
328	Discharge Air Temperature Sensor	[11]

Interface Object Type	Functional Block	Reference
329	Floor Temperature Sensor	[11]
330	Outside AQ Sensor	[11]
331	Room AQ Sensor	[11]
332	Supply AQ Sensor	[11]
333	Return AQ Sensor	[11]
336	Outside Relative Humidity Sensor	[11]
337	Room Relative Humidity Sensor	[11]
338	Supply Air Relative Humidity Sensor	[11]
339	Return Air Relative Humidity Sensor	[11]
341	Air Change Over Status Sensor	[11]
342	Water Change Over Status Sensor	[11]
343	Window Switch	[11]
344	Dew Point Status Sensor	[11]
345	Presence Detector	[11]
347	Wind Speed Sensor	[16]
348	Sun Intensity Sensor	[11]
352	HVAC Valve Actuator	[13]
357	Compressor Inverting Valve Actuator	None.
362	Air Damper Actuator	[13]
369	Electrical Heating Element Actuator	[13]
372	Fan Speed Actuator	[13]
373	Compressor Actuator	[13]
384	User HVAC Room Settings	[12]
385	Room Temperature Setpoint Absolute Setting	[12]
387	User Air Quality Setpoint Setting	[12]
388	User Relative Humidity Setpoint Setting	[12]
390	User HVAC Display	[12]
390	User HVAC Display	[12]
391	User Presence Switch	[12]
392	User Change Over Settings	[12]
393	User Fan Speed Setting	[12]
396	User Enable Alternative Room Temperature Setpoint	[12]
403	FB Scene Sensor	[05]
406	Timed Sensor	[05]
408	Room Light Setpoint	[28]
409	Indoor Brightness Sensor	[26]
410	Indoor Luminance Sensor	[26]
414	Motion Detector	[26]
415	Room Light Controller	[28]
417	Light Switching Actuator Basic	[26]
418	Dimming Actuator Basic	[27]
420	FB Dimming Sensor Basic	[26]
421	FB Switching Sensor Basic	[26]
800	FB Sunblind Actuator Basic	[30]
801	FB Sunblind Sensor Basic	[29]
802	FB_Wind_Sensor FB_Wind_Alarm	None.
803	FB_Rain_Sensor FB_Rain_Alarm	None.
804	FB_Frost_Sensor	None.
1001	System Clock	[04]

Interface Object Type	Functional Block	Reference
1002	AlarmSource	[07]
1003	AlarmSink	[07]
1004	Smoke Alarm	None.
1005	Battery Status	None.
1006	Display	None.
1007	Logical AND/OR	[09]
1010	Scene Controller	[06]
1012	Scheduler	[06]
1013	Atmospheric Pressure Sensor	[05]
1014	General Purpose Digital Input	[08]
1015	General Purpose Analog Input	[08]
1016	General Purpose Temperature Sensor	[08]
1017	Multi Purpose Input	[08]
1018	General Purpose Digital Output	[08]
1019	General Purpose Analog Output	[08]
1020	Priority Sensor	[05]
1101	Heat Meter	[32]
1102	Heat Cost Allocator	[32]
1103	Water Meter	[32]
1120	Electrical Energy Tariff Sensor	[33]
1121	Electrical Energy Tariff Display	[33]
1122	Tariff Sensor	[33]
1123	Tariff Display	[33]

3 Property Identifiers

3.1 Assignment scheme

The Property Identifiers are assigned according to the scheme below.

Property Identifier	Object Type		
	Standardized System Interface Object Types (Object Types [0...99])	Standardized Application Interface Object Types (Object Types [100...50.000])	Non-standardized Interface Object Types (Object Types [50.001...65.535])
0			
50			
51			
154			
155			
200			
201			
255			

Property is

- **standardized and**
- **object type independent**

These identifiers designate Properties that can be interpreted without knowledge of the Object Type they are incorporated in.

These typically identify Properties for application- and device management.

These Property Identifiers are assigned by the KNX Association.

Property is

- **standardized and**
- **Object Type specific**

For the interpretation of these Property Identifiers, it is necessary to know the Object Types. A Property with the same Property Identifier in Object Type x has a different meaning than a Property in an Object of Type y.

These typically identify Properties of Application Interface Objects implementing Functional Blocks.

These Property Identifiers are assigned by the KNX Association.

Property is

- **not standardized**

These Property Identifiers shall be used for non-standardized; this is manufacturer specific, Interface Object Properties.

The standardized Interface Object Properties are listed in the subclauses below.

3.2 Interface Object Type independent standard Properties

Table 3 lists the Properties that shall be common to all Interface Object Types.

It shall be possible to interpret each of these Properties independently of the Type of Interface Object in which it is implemented.

For the specification of these Properties, please refer to [01].

Table 3 - Interface Object Type independent Properties

Property Identifier Value: Name	Property Name	Property Datatype
0: Reserved		-
1: PID_OBJECT_TYPE	Interface Object Type	PDT_UNSIGNED_INT (DPT_PropDataType, DPT_ID = 7.010)
2: PID_OBJECT_NAME	Interface Object Name	PDT_UNSIGNED_CHAR[]
3: PID_SEMAPHOR		-
4: PID_GROUP_OBJECT_REFERENCE		-
5: PID_LOAD_STATE_CONTROL	Load Control	PDT_CONTROL
6: PID_RUN_STATE_CONTROL	Run Control	PDT_CONTROL
7: PID_TABLE_REFERENCE	Table Reference	PDT_UNSIGNED_LONG
8: PID_SERVICE_CONTROL	Service Control	PDT_UNSIGNED_INT
9: PID_FIRMWARE_REVISION	Firmware Revision	PDT_UNSIGNED_CHAR
10: PID_SERVICES_SUPPORTED	Supported Services	-
11: PID_SERIAL_NUMBER	KNX Serial Number	PDT_GENERIC_06
12: PID_MANUFACTURER_ID	Manufacturer Identifier	PDT_UNSIGNED_INT
13: PID_PROGRAM_VERSION	Application Version	PDT_GENERIC_05
14: PID_DEVICE_CONTROL	Device Control	PDT_BISET8 (alt.: PDT_GENERIC_01) (DPT_Device_Control)
15: PID_ORDER_INFO	Order Info	PDT_GENERIC_10
16: PID_PEI_TYPE	PEI Type	PDT_UNSIGNED_CHAR
17: PID_PORT_CONFIGURATION	PortADDR	PDT_UNSIGNED_CHAR
18: PID_POLL_GROUP_SETTINGS	Pollgroup Settings	PDT_POLL_GROUP_SETTINGS
19: PID_MANUFACTURER_DATA	Manufacturer Data	PDT_GENERIC_04 (PDT_GENERIC_XX)
20: PID_ENABLE		-
21: PID_DESCRIPTION	Description	PDT_UNSIGNED_CHAR[]
22: PID_FILE		-
23: PID_TABLE	Table	PDT_UNSIGNED_INT[] PDT_GENERIC_02[]
24: PID_ENROL	Interface Object Link	PDT_FUNCTION
25: PID_VERSION	Version	PDT_VERSION (U ₆ U ₆ U ₆) (PDT_GENERIC_02)
26: PID_GROUP_OBJECT_LINK	Group Address Assignment	PDT_FUNCTION
27: PID_MCB_TABLE	Memory Control Table	PDT_GENERIC_07[]
28: PID_ERROR_CODE	Error code	PDT_GENERIC_01
29: PID_OBJECT_INDEX	Object Index	PDT_UNSIGNED_CHAR (DPT_Value_1_Ucount)

3.3 Interface Object Type specific Standardized Property Identifiers

3.3.1 Device Object Interface Object (Object Type = 0)

Table 4 - Properties in the Device Object

Property Identifier Value: Name	Property Name	Property Datatype	Short description
51: PID_ROUTING_COUNT	Routing Count	PDT_UNSIGNED_CHAR	Routing Count Default Value of Routing count
52: PID_MAX_RETRY_COUNT	MaxRetryCount	PDT_GENERIC_01	MaxRetryCount Value for NAK/BUSY Retries
53: PID_ERROR_FLAGS	Error Flags	PDT_UNSIGNED_CHAR	Errorflags
54: PID_PROGMODE	Programming Mode	PDT_BITSET8	ProgrammingMode Bit 0 = Programming Mode
55: PID_PRODUCT_ID	Product Identification	PDT_GENERIC_10	Product Identification Manufacturer Specific Device type
56: PID_MAX_APDULENGTH	Max. APDU-Length	PDT_UNSIGNED_INT	Max. APDU-Length Maximum APDU-Length
57: PID_SUBNET_ADDR	Subnetwork Address	PDT_UNSIGNED_CHAR	SubNetAddress High octet of Individual Address
58: PID_DEVICE_ADDR	Device Address	PDT_UNSIGNED_CHAR	DeviceAddress Low octet of Individual Address
59: PID_PB_CONFIG	PID_Config_Link	PDT_GENERIC_04	PushbuttonConf. Pushbutton Configuration
60: PID_ADDR_REPORT	Address report	PDT_GENERIC_06	AddressReport
61: PID_ADDR_CHECK	Address Check	PDT_GENERIC_01	AddressCheck Dummy
62: PID_OBJECT_VALUE	Object Value	PDT_FUNCTION	access to a Group Object value
63: PID_OBJECTLINK	Object Link	PDT_FUNCTION	function call set and delete links
64: PID_APPLICATION	Application	PDT_FUNCTION	change active application
65: PID_PARAMETER	Parameter	PDT_FUNCTION	access to parameters
66: PID_OBJECTADDRESS	Object Address	PDT_FUNCTION	read group object addresses
67: PID_PSU_TYPE	PSU Type	PDT_UNSIGNED_INT DPT_UEICurrentmA (7.012)	nominal current of device providing distributed power supply device information; real data

Property Identifier Value: Name	Property Name	Property Datatype	Short description
68: PID_PSU_STATUS	PSU Status	PDT_BINARY_INFORMATION (alt.: PDT_UNSIGNED_CHAR) DPT_Switch (1.001)	status of DPSU in device device information; real data
69: PID_PSU_ENABLE	PSU Enable	PDT_ENUM8 DPT_PSUMode (20.008)	control over DPSU functionality in the device device information: real data
70: PID_DOMAIN_ADDRESS	Domain Address	PDT_UNSIGNED_INT	To read out the Domain Address of a device.
71: PID_IO_LIST	Interface Object List	PDT_UNSIGNED_INT	cEMI
72: PID_MGT_DESCRIPTOR_01	Management Descriptor 1	PDT_GENERIC_10	Descriptor for extended device descriptor for mask version 0100 (so far only allowed for this mask). This property shall not be used for other masks.
73: PID_PL110_PARAM	PL110 Parameters	PDT_GENERIC_01	Frequency setting. Indication of whether a repeater is present Indication of whether the device is a repeater or not.
74: PID_RF_REPEAT_COUNTER	RF Repeat Counter	PDT_UNSIGNED_CHAR	To be completed.
75: PID_RECEIVE_BLOCK_TABLE	BiBat Receive Block Table	PDT_UNSIGNED_CHAR[16]	Settings for a RF BiBat Slave in which synchronous blocks it shall receive.
76: PID_RANDOM_PAUSE_TABLE	BiBat Random Pause Table	PDT_UNSIGNED_CHAR[12]	Random pause table in a RF BiBat domain.
77: PID_RECEIVE_BLOCK_NR	BiBat Receive Block Number	PDT_UNSIGNED_CHAR	Number of receive blocks supported by the RF BiBat slave.
78: PID_HARDWARE_TYPE	Hardware Type	PDT_GENERIC_06	Property identifying the hardware, allowing differentiation between hardware types of the same mask, introduced for a check possibility for ETS.
79: PID_RETRANSMITTER_NUMBER	BiBat Retransmitter Number	PDT_UNSIGNED_CHAR	Defines the time delay for the retransmitter.
80: PID_SERIAL_NR_TABLE	Serial Number Table	PDT_GENERIC_06[]	Table containing the KNX Serial Number of the BiBat Master and optionally other devices.
81: PID_BIBATMASTER_ADDRESS	BiBat Master Individual Address	PDT_UNSIGNED_INT	Individual Address of the BiBat Master, used by BiBat Slave in help call.
82: PID_RF_DOMAIN_ADDRESS	RF Domain Address	PDT_GENERIC_06	RF Domain Address for cEMI server filtering and sending
83: PID_DEVICE_DESCRIPTOR	Device Descriptor	PDT_GENERIC_02	Device Descriptor for KNXnet/IP devices.
84: PID_METERING_FILTER_TABLE	Metering Filter Table	PDT_GENERIC_08[]	Metering Filter Table for RF M-Bus Repeater and for the M-Bus Data Collector.

Property Identifier Value: Name	Property Name	Property Datatype	Short description
85: PID_GROUP_TELEGR_RATE_LIMIT- TIME_BASE	group telegram rate limitation time base	PDT_UNSIGNED_INT	Telegram rate limitation time base
86: PID_GROUP_TELEGR_RATE_LIMIT- NO_OF_TELEGR	group telegram rate limitation number of telegrams	PDT_UNSIGNED_INT	Telegram rate limitation number
101: PID_CHANNEL_01_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 1 Param Easy configuration channel parameter
102: PID_CHANNEL_02_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 2 Param Easy configuration channel parameter
103: PID_CHANNEL_03_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 3 Param Easy configuration channel parameter
104: PID_CHANNEL_04_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 4 Param Easy configuration channel parameter
105: PID_CHANNEL_05_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 5 Param Easy configuration channel parameter
106: PID_CHANNEL_06_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 6 Param Easy configuration channel parameter
107: PID_CHANNEL_07_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 7 Param Easy configuration channel parameter
108: PID_CHANNEL_08_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 8 Param Easy configuration channel parameter
109: PID_CHANNEL_09_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 9 Param Easy configuration channel parameter
110: PID_CHANNEL_10_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 10 Param Easy configuration channel parameter
111: PID_CHANNEL_11_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 11 Param Easy configuration channel parameter
112: PID_CHANNEL_12_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 12 Param Easy configuration channel parameter
113: PID_CHANNEL_13_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 13 Param Easy configuration channel parameter
114: PID_CHANNEL_14_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 14 Param Easy configuration channel parameter
115: PID_CHANNEL_15_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 15 Param Easy configuration channel parameter
116: PID_CHANNEL_16_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 16 Param Easy configuration channel parameter

Property Identifier Value: Name	Property Name	Property Datatype	Short description
117: PID_CHANNEL_17_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 17 Param Easy configuration channel parameter
118: PID_CHANNEL_18_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 18 Param Easy configuration channel parameter
119: PID_CHANNEL_19_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 19 Param Easy configuration channel parameter
120: PID_CHANNEL_20_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 20 Param Easy configuration channel parameter
121: PID_CHANNEL_21_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 21 Param Easy configuration channel parameter
122: PID_CHANNEL_22_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 22 Param Easy configuration channel parameter
123: PID_CHANNEL_23_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 23 Param Easy configuration channel parameter
124: PID_CHANNEL_24_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 24 Param Easy configuration channel parameter
125: PID_CHANNEL_25_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 25 Param Easy configuration channel parameter
126: PID_CHANNEL_26_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 26 Param Easy configuration channel parameter
127: PID_CHANNEL_27_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 27 Param Easy configuration channel parameter
128: PID_CHANNEL_28_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 28 Param Easy configuration channel parameter
129: PID_CHANNEL_29_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 29 Param Easy configuration channel parameter
130: PID_CHANNEL_30_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 30 Param Easy configuration channel parameter
131: PID_CHANNEL_31_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 31 Param Easy configuration channel parameter
132: PID_CHANNEL_32_PARAM	<tbd>	PDT_GENERIC_01[]	Channel 32 Param Easy configuration channel parameter

3.3.2 Polling Master Interface Object (Object Type = 10)

Table 5 - Properties in the Polling Master

PID Value	PID Name	Property Name
51	PID_POLLING_STATE	Polling State
52	PID_POLLING_SLAVE_ADDR	Polling Slave Address
53	PID_POLL_CYCLE	Polling Cycle

4 Property Datatypes Identifiers

The PropertyProperty Datatypes are part of the descriptive information of Interface Objects. They give a basic indication for the length and in some cases also for structure and coding.

The following Property Datatypes are defined for KNX Interface Objects.

4.1 Overview

Table 6 - Overview Property Datatypes

Property Datatype	Property Datatype	Format	Type-Length [octets]	Level a)
00h	PDT_CONTROL	Usage dependent.	1 Read /10 Write	3
01h	PDT_CHAR	V ₈	1	3
02h	PDT_UNSIGNED_CHAR	U ₈	1	3
03h	PDT_INT	V ₁₆	2	3
04h	PDT_UNSIGNED_INT	U ₁₆	2	3
05h	PDT_KNX_FLOAT	DPT_ID = 9.xxx F ₁₆	2	3
06h	PDT_DATE	DPT_ID = 11.xxx (DPT_Date) r ₃ N ₅ r ₄ N ₄ r ₁ U ₇	3	3
07h	PDT_TIME	DPT_ID = 10.xxx (DPT_Time) N ₃ N ₅ r ₂ N ₆ r ₂ N ₆	3	3
08h	PDT_LONG	V ₃₂	4	3
09h	PDT_UNSIGNED_LONG	U ₃₂	4	3
0Ah	PDT_FLOAT 1)	F ₃₂	4	3
0Bh	PDT_DOUBLE	F ₆₄	8	3
0Ch	PDT_CHAR_BLOCK	A _[10]	10	3
0Dh	PDT_POLL_GROUP_SETTINGS	U ₁₆ U ₈	3	3
0Eh	PDT_SHORT_CHAR_BLOCK	A _[5]	5	3
0Fh	PDT_DATE_TIME b)	DPT_DateTime (DPT_ID = 19.001) U ₈ [r ₄ U ₄][r ₃ U ₅][U ₃ U ₅][r ₂ U ₆][r ₂ U ₆]B ₁₆	8	3
10h	PDT_VARIABLE_LENGTH b)	DPT_VarString_8859_1 (DPT_ID = 24.001)	--	3
11h	PDT_GENERIC_01	Undefined, length = 1 octet	1	2
12h	PDT_GENERIC_02	Undefined, length = 2 octets	2	2
13h	PDT_GENERIC_03	Undefined, length = 3 octets	3	2
14h	PDT_GENERIC_04	Undefined, length = 4 octets	4	2
15h	PDT_GENERIC_05	Undefined, length = 5 octets	5	2
16h	PDT_GENERIC_06	Undefined, length = 6 octets	6	2
17h	PDT_GENERIC_07	Undefined, length = 7 octets	7	2
18h	PDT_GENERIC_08	Undefined, length = 8 octets	8	2
19h	PDT_GENERIC_09	Undefined, length = 9 octets	9	2
1Ah	PDT_GENERIC_10 b)	Undefined, length = 10 octets	10	2
1Bh	PDT_GENERIC_11 b)	Undefined, length = 11 octets	11	2
1Ch	PDT_GENERIC_12 b)	Undefined, length = 12 octets	12	2
1Dh	PDT_GENERIC_13 b)	Undefined, length = 13 octets	13	2
1Eh	PDT_GENERIC_14 b)	Undefined, length = 14 octets	14	2
1Fh	PDT_GENERIC_15 b)	Undefined, length = 15 octets	15	2

1) This is the IEEE Float

Table 6 - Overview Property Datatypes

Property Datatype	Property Datatype	Format	Type-Length [octets]	Level a)
20h	PDT_GENERIC_16 b)	Undefined, length = 16 octets	16	2
21h	PDT_GENERIC_17 b)	Undefined, length = 17 octets	17	2
22h	PDT_GENERIC_18 b)	Undefined, length = 18 octets	18	2
23h	PDT_GENERIC_19 b)	Undefined, length = 19 octets	19	2
24h	PDT_GENERIC_20 b)	Undefined, length = 20 octets	20	2
25h	Reserved	Reserved	Reserved	-
26h	Reserved	Reserved	Reserved	-
27h	Reserved	Reserved	Reserved	-
28h	Reserved	Reserved	Reserved	-
29h	Reserved	Reserved	Reserved	-
2Ah	Reserved	Reserved	Reserved	-
2Bh	Reserved	Reserved	Reserved	-
2Ch	Reserved	Reserved	Reserved	-
2Dh	Reserved	Reserved	Reserved	-
2Eh	Reserved	Reserved	Reserved	-
2Fh	PDT_UTF-8	DPT_UTF-8 (DPT_ID = 28.001) A[n]	variable	3
30h	PDT_VERSION b)	DPT_Version (DPT_ID = 217.001) U ₅ U ₅ U ₆	2	3
31h	PDT_ALARM_INFO b)	DPT_AlarmInfo (DPT_ID = 219.001) U ₈ N ₈ N ₈ N ₈ B ₈ B ₈	6	3
32h	PDT_BINARY_INFORMATION b)	B ₁	1 bit	3
33h	PDT_BITSET8 b)	B ₈	1	3
34h	PDT_BITSET16 b)	B ₁₆	2	3
35h	PDT_ENUM8 b)	N ₈	1	3
36h	PDT_SCALING b)	DPT_Scaling (DPT_ID = 5.001) U ₈	1	3
37h	Reserved	Reserved	Reserved	-
38h	Reserved	Reserved	Reserved	-
39h	Reserved	Reserved	Reserved	-
3Ah	Reserved	Reserved	Reserved	-
3Bh	Reserved	Reserved	Reserved	-
3Ch	PDT_NE_VL b)	Undefined	Undefined	1
3Dh	PDT_NE_FL b)	Undefined	Undefined	1
3Eh	PDT_FUNCTION b)	Usage dependent	Usage dependent	1
3Fh	PDT_ESCAPE b)	Defined or undefined	Defined or undefined	1

a) These "levels" are specified in 4.3.

b) This PDT is new since KNX Handbook v1.0.

4.2 Additional detailed specifications

- RESERVED

Property Datatypes indicated with “Reserved” are reserved for future extensions. They shall be approved by the KNX Association System Group (KSG). They shall not be used before preceding standardisation and approval.

PDT_GENERIC_01 to PDT_GENERIC_20

These Property Datatypes do not give any information about the format of the Property value but only on the length. These Property Datatypes shall only be used if no other PDT of level 1 is applicable.

00h PDT_CONTROL

This Property Datatype PDT_CONTROL shall exclusively be used as type indication for Properties controlling the standard load state machines ²⁾.

01h PDT_CHAR

This Property Datatype shall exclusively be used to as type indication for all Property values encoded as single octet two's complement notation (V_8).

02h PDT_UNSIGNED_CHAR

This PDT_UNSIGNED_CHAR shall exclusively be used to identify Property values encoded as single octet unsigned character (U_8).

Property values encoded according DPT_Value (DPT_ID = 5.001) shall however be encoded as PDT_SCALING (PDT = 36h).

03h PDT_INT

This PDT_INT shall exclusively be used to identify Property values encoded as two octet signed integers (two's complement notation).

04h PDT_UNSIGNED_INT

This PDT_UNSIGNED_INT shall exclusively be used to identify Property values encoded as two octet unsigned integers.

05h PDT_KNX_FLOAT

This PDT_KNX_FLOAT shall exclusively be used to identify Property values encoded as two octet float value according DPTs with main number 9.

06h PDT_DATE

This PDT_DATE shall exclusively be used to identify Property values encoded as three octet date format according DPTs with main number 11.

07h PDT_TIME

This PDT_TIME shall exclusively be used to identify Property values encoded as three octet time format according DPTs with main number 10.

08h PDT_LONG

This PDT_LONG shall exclusively be used to identify Property values encoded as four octet signed integer format according DPTs with main number 13.

²⁾ The interface to these load state machines is specified in [02] from clause 3.24 “DM_LoadStateMachineWrite” onwards.

KNX Standard	Standard Identifier Tables	Interworking
09h	PDT_UNSIGNED_LONG	
	This PDT_UNSIGNED_LONG shall exclusively be used to identify Property values encoded as four octet unsigned integer format according DPTs with main number 12.	
0Ah	PDT_FLOAT	
	This PDT_FLOAT shall exclusively be used to identify Property values encoded as four octet single precision float format (IEEE 754) according DPTs with main number 14.	
0Bh	PDT_DOUBLE	
	This PDT_DOUBLE shall exclusively be used to identify Property values encoded as eight octet double precision float format (IEEE 754).	
0Ch	PDT_CHAR_BLOCK	
	This Property Datatype shall exclusively be used to identify Property values encoded as a set of 10 single octet two's complement notation values ($V_8[10]$).	
0Dh	PDT_POLL_GROUP_SETTINGS	
	This Property Datatype PDT_POLL_GROUP_SETTINGS shall exclusively be used to identify Property values holding the polling group settings of a device ($U_{16}U_8$). It shall thus only be used for the type identification of PID_POLLGROUP_SETTINGS (PID = 18) in the Device Object (object_type = 0).	
0Eh	PDT_SHORT_CHAR_BLOCK	
	This Property Datatype shall exclusively be used to identify Property values encoded as a set of 5 single octet two's complement notation values ($V_8[5]$).	
0Fh	PDT_DATE_TIME	
	This Property Datatype shall exclusively be used as type indication for Properties encoded according the standard Datapoint Type DPT_DateTime (DPT_ID = 19.001).	
10h	PDT_VARIABLE_LENGTH	
	This PDT_VARIABLE_LENGTH shall non-exclusively be used to identify properties values encoded according DPT_VarString_8859_1 (DPT_ID = 24.001).	
	This PDT shall however also be used for possible other Property values of variable length.	
	NOTE There is no dedicated PDT for DPT_VarString_8859_1 alone. Also other codings can use this PDT. This saves encoding space and allows re-using this PDT for possible other future string formats.	
2Fh	PDT_UTF-8	
	This PDT_UTF-8 shall be used exclusively to identify Property values encoded according DPT_UTF-8 (DPT_ID = 28.001).	
30h	PDT_VERSION	
	This PDT_Version shall exclusively be used to identify properties containing version information encoded according Datapoint Type DPT_Version (DPT_ID = 217.001).	
	A Property of this type can contain any type of version information as foreseen for DPT_Version (software version, hardware version, data-interface version, etc.). It can be used in System Interface Objects, Application Interface Objects and non-standardised Interface Object Types.	
	Alternative type:	PDT_GENERIC_02
31h	PDT_ALARM_INFO	
	This PDT_ALARMINFO shall exclusively be used for indicating Property values encoded according DPT_Alarminfo (DPT_ID = 219.001).	
	Alternative type:	PDT_GENERIC_06

32h	PDT_BINARY_INFORMATION This PDT_BINARY_INFORMATION shall exclusively be used for Property values encoded as a single bit value. In a Property value, the data shall be located on the least significant position. Alternative type: PDT_UNSIGNED_CHAR
33h	PDT_BITSET8 This PDT_BITSET8 shall exclusively be used for Property values encoded as 8 bit bitfield ³⁾ . Alternative type: PDT_GENERIC_01
34h	PDT_BITSET16 This PDT_BITSET16 shall exclusively be used for Property values encoded as 16 bit bitfield ³⁾ . Alternative type: PDT_GENERIC_02
35h	PDT_ENUM8 This PDT_ENUM8 shall exclusively be used for Property values encoded as 8 bit enumerated datatypes. Alternative type: PDT_UNSIGNED_CHAR
36h	PDT_SCALING This PDT_SCALING shall exclusively be used for Property values encoded as DPT_Scaling (DPT_ID = 5.001). Other Property values encoded as U ₈ format shall use the Property Datatype PDT_UNSIGNED_CHAR (PDT = 02h). Alternative type: PDT_UNSIGNED_CHAR

³⁾ This means that all bits can be set independently and have an independent meaning. The interpretation of one bit shall not depend on the value of another bit. Also, all possible combinations of separate bit values shall be meaningful. If these requirements are not complied with, the PDT shall not be **PDT_BITSET8** or **PDT_BITSET16**, but a different PDT, probably **PDT_GENERIC01** or **PDT_GENERIC02**.
It is however possible that not all of the bits are defined; there may be reserved bits in the data. It is recommended that reserved bits are put on the higher significant bit positions. Reserved bits shall be set to 0.

3Ch PDT_NE_VL

(NE = Not Encoded, VL = Variable Length)

This PDT shall be use exclusively under the following conditions.

- The encoding of the Property value does not comply with any of the other PDTs.
- The specification of the encoding can not be retrieved from the product in any other way.
- The Property value has a **variable** length.

NOTE 1 This PDT signals to the Property client that the encoding of this Property does not comply with any of the standard PDTs. It also means that the encoding cannot be retrieved from the device via any standardized means. As moreover the length is variable, the Property client can not even implicitly retrieve the length of the Property value by simply reading out a single element of the Property value array. The encoding can be obtained from the KNX specifications if the Property is a standard Property, or from the manufacturer's product documentation or via non-standardised means from the device itself.

NOTE 2 It may very well be that though the PDT is "not encoded", that the Property is encoded according a standard Datapoint Type (DPT) ! This PDT is thus not reserved only for non-standard DPTs.

Alternative type: **PDT_VARIABLE_LENGTH**

3Dh PDT_NE_FL

(NE = Not Encoded, FL = Fixed Length)

This PDT shall be use exclusively under the following conditions:

- The encoding of the Property value does not comply to any of the other PDTs.
- The specification of the encoding can not be retrieved from the product in any other way.
- The Property value has a **fixed** length.

NOTE 1 This PDT signals to the Property client that the encoding of this Property does not comply with any of the standard PDTs. It also means that the encoding cannot be retrieved from the device via any standardized means. As however the length is fixed, it allows retrieving at least the length information implicitly by reading out a single element of the Property value array (at least, if the data fits within a single KNX frame). The exact encoding can be obtained from the KNX specifications if the Property is a standard Property, or from the manufacturer's product documentation or via non-standardised means from the device itself.

NOTE 2 It may very well be that though the PDT is "not encoded", that the Property is encoded according a standard Datapoint Type (DPT) ! This PDT is thus not reserved only for non-standard DPTs.

Alternative type: This is an escape. An alternative type is meaningless.

3Eh PDT_FUNCTION

This PDT_FUNCTION shall *exclusively* be used in the Property descriptions of Properties for calling Functions in the Object Server. It shall not be used for the description of any other Property. Presence of a Property of the type PDT_Function requires that the device supports Function Properties as specified in Chapter 3/4/1 “Application Interface Layer”.

This PDT_FUNCTION shall be used for encoding Property Datatypes of Properties accessible via the services A_FunctionProperty_Command and A_FunctionPropertyState_Read.

NOTE Please note that the specifications of these services and the Function Properties in general allows for different data length in the service primitives (req, res, ind).

The encoding (i.e. also the length) is however not free but specified in the KNX Specifications.

NOTE Opposite to the other PDTs, this PDT_FUNCTION does not provide any information on the *encoding* of the Property, but instead on the *usage* of the PDT.

Alternative type: **PDT_VARIABLE_LENGTH**

3Fh PDT_ESCAPE

This PDT shall be use exclusively under the following conditions:

- The encoding of the Property value does not comply with any of the other PDTs.
- The specification of the encoding can be retrieved from the device, not via the standard A_PropertyDescription_Read-service, but by alternative standard means ⁴⁾.
It may be possible to additionally retrieve the Property value encoding implicitly or via manufacturer specific means.
- The Property value may have a **fixed** length as well as a **variable** length.

This PDT_ESCAPE shall not be used until this standard alternative means has been specified by the KNX Association.

Alternative type: This is an escape. An alternative type is meaningless.

4.3 Usage rules

The Property description shall contain the most precise Property Datatype specification. The specification becomes less precise in the following decreasing order:

Precision level

3. Encoding fully fixed
2. Only length is fixed
1. Coding is not fixed

⁴⁾ No such mechanisms are specified in the KNX Standard today (status Jan. 2007).

5 Datapoint Type Identifiers

As specified in [03], every standard Datapoint Type shall be identified by a 16 bit main number separated by a dot from a 16 bit subnumber. The main- and subnumbers are assigned according the scheme given in Table 7 below.

Table 7 - Assignment scheme for Datapoint Types

Main Number	Sub number			
	Common Interest	Application Specific		
	0-99	≥ 100-499	≥ 500-59.999	≥ 60.000
0-199	DPT is <ul style="list-style-type: none">• standard• general usage• mainly unstructured	DPT is <ul style="list-style-type: none">• standardised• HVAC specific usage	DPT is <ul style="list-style-type: none">• standardised• other applications	manufacturer specific extensions ^a
200-299	DPT is <ul style="list-style-type: none">• structured DPTs• general usage	DPT is <ul style="list-style-type: none">• structured DTs• HVAC LTE only	reserved for other applications	
300-59.999	Reserved for future usage (managed by KNX Association)			
≥ 60.000	Reserved. These DPT-ID's shall not be used.			manufacturer specific extensions ^a
^a For interpretation of these Datapoint Types the device type needs to be known.				

Table 8 - Datapoint Types

DPT_ID	Format	DPT_Name
1.001	B ₁	DPT_Switch
1.002	B ₁	DPT_Bool
1.003	B ₁	DPT_Enable
1.004	B ₁	DPT_Ramp
1.005	B ₁	DPT_Alarm
1.006	B ₁	DPT_BinaryValue
1.007	B ₁	DPT_Step
1.008	B ₁	DPT_UpDown
1.009	B ₁	DPT_OpenClose
1.010	B ₁	DPT_Start
1.011	B ₁	DPT_State
1.012	B ₁	DPT_Invert
1.013	B ₁	DPT_DimSendStyle
1.014	B ₁	DPT_InputSource
1.015	B ₁	DPT_Reset
1.016	B ₁	DPT_Ack
1.017	B ₁	DPT_Trigger
1.018	B ₁	DPT_Occupancy
1.019	B ₁	DPT_Window_Door
1.021	B ₁	DPT_LogicalFunction
1.022	B ₁	DPT_Scene_AB
1.023	B ₁	DPT_ShutterBlinds_Mode
1.100	B ₁	DPT_Heat/Cool
2.001	B ₂	DPT_Switch_Control
2.002	B ₂	DPT_Bool_Control
2.003	B ₂	DPT_Enable_Control
2.004	B ₂	DPT_Ramp_Control
2.005	B ₂	DPT_Alarm_Control
2.006	B ₂	DPT_BinaryValue_Control
2.007	B ₂	DPT_Step_Control
2.008	B ₂	DPT_Direction1_Control
2.009	B ₂	DPT_Direction2_Control
2.010	B ₂	DPT_Start_Control
2.011	B ₂	DPT_State_Control
2.012	B ₂	DPT_Invert_Control
3.007	B ₁ U ₃	DPT_Control_Dimming
3.008	B ₁ U ₃	DPT_Control_Blinds
4.001	A ₈	DPT_Char_ASCII
4.002	A ₈	DPT_Char_8859_1
5.001	U ₈	DPT_Scaling
5.003	U ₈	DPT_Angle
5.004	U ₈	DPT_Percent_U8
5.005	U ₈	DPT_DecimalFactor
5.010	U ₈	DPT_Value_1_Ucount
6.001	V ₈	DPT_Percent_V8
6.010	V ₈	DPT_Value_1_Count
6.020	B ₅ N ₃	DPT_Status_Mode3
7.001	U ₁₆	DPT_Value_2_Ucount
7.002	U ₁₆	DPT_TimePeriodMsec
7.003	U ₁₆	DPT_TimePeriod10Msec
7.004	U ₁₆	DPT_TimePeriod100Msec
7.005	U ₁₆	DPT_TimePeriodSec

DPT_ID	Format	DPT_Name
7.006	U ₁₆	DPT_TimePeriodMin
7.007	U ₁₆	DPT_TimePeriodHrs
7.010	U ₁₆	DPT_PropDataType
7.011	U ₁₆	DPT_Length_mm
7.012	U ₁₆	DPT_UICurrentmA
7.013	U ₁₆	DPT_Brightness
8.001	V ₁₆	DPT_Value_2_Count
8.002	V ₁₆	DPT_DeltaTimeMsec
8.003	V ₁₆	DPT_DeltaTime10MSec
8.004	V ₁₆	DPT_DeltaTime100MSec
8.005	V ₁₆	DPT_DeltaTimeSec
8.006	V ₁₆	DPT_DeltaTimeMin
8.007	V ₁₆	DPT_DeltaTimeHrs
8.010	V ₁₆	DPT_Percent_V ₁₆
8.011	V ₁₆	DPT_Rotation_Angle
9.001	F ₁₆	DPT_Value_Temp
9.002	F ₁₆	DPT_Value_Tempd
9.003	F ₁₆	DPT_Value_Tempa
9.004	F ₁₆	DPT_Value_Lux
9.005	F ₁₆	DPT_Value_Wsp
9.006	F ₁₆	DPT_Value_Pres
9.007	F ₁₆	DPT_Value_Humidity
9.008	F ₁₆	DPT_Value_AirQuality
9.010	F ₁₆	DPT_Value_Time1
9.011	F ₁₆	DPT_Value_Time2
9.020	F ₁₆	DPT_Value_Volt
9.021	F ₁₆	DPT_Value_Curr
9.022	F ₁₆	DPT_PowerDensity
9.023	F ₁₆	DPT_KelvinPerPercent
9.024	F ₁₆	DPT_Power
9.025	F ₁₆	DPT_Value_Volume_Flow
10.001	N ₃ N ₅ r ₂ N ₆ r ₂ N ₆	DPT_TimeOfDay
11.001	r ₃ N ₅ r ₄ N ₄ r ₁ U ₇	DPT_Date
12.001	U ₃₂	DPT_Value_4_Ucount
13.001	V ₃₂	DPT_Value_4_Count
13.100	V ₃₂	DPT_LongDeltaTimeSec
14.000	F ₃₂	DPT_Value_Acceleration
14.001	F ₃₂	DPT_Value_Acceleration_Angular
14.002	F ₃₂	DPT_Value_Activation_Energy
14.003	F ₃₂	DPT_Value_Activity
14.004	F ₃₂	DPT_Value_Mol
14.005	F ₃₂	DPT_Value_Amplitude
14.006	F ₃₂	DPT_Value_AngleRad
14.007	F ₃₂	DPT_Value_AngleDeg
14.008	F ₃₂	DPT_Value_Angular_Momentum
14.009	F ₃₂	DPT_Value_Angular_Velocity
14.010	F ₃₂	DPT_Value_Area
14.011	F ₃₂	DPT_Value_Capacitance
14.012	F ₃₂	DPT_Value_Charge_DensitySurface
14.013	F ₃₂	DPT_Value_Charge_DensityVolume
14.014	F ₃₂	DPT_Value_Compressibility
14.015	F ₃₂	DPT_Value_Conductance
14.016	F ₃₂	DPT_Value_Electrical_Conductivity

DPT_ID	Format	DPT_Name
14.017	F ₃₂	DPT_Value_Density
14.018	F ₃₂	DPT_Value_Electric_Charge
14.019	F ₃₂	DPT_Value_Electric_Current
14.020	F ₃₂	DPT_Value_Electric_CurrentDensity
14.021	F ₃₂	DPT_Value_Electric_DipoleMoment
14.022	F ₃₂	DPT_Value_Electric_Displacement
14.023	F ₃₂	DPT_Value_Electric_FieldStrength
14.024	F ₃₂	DPT_Value_Electric_Flux
14.025	F ₃₂	DPT_Value_Electric_FluxDensity
14.026	F ₃₂	DPT_Value_Electric_Polarization
14.027	F ₃₂	DPT_Value_Electric_Potential
14.028	F ₃₂	DPT_Value_Electric_PotentialDifference
14.029	F ₃₂	DPT_Value_ElectromagneticMoment
14.030	F ₃₂	DPT_Value_Electromotive_Force
14.031	F ₃₂	DPT_Value_Energy
14.032	F ₃₂	DPT_Value_Force
14.033	F ₃₂	DPT_Value_Frequency
14.034	F ₃₂	DPT_Value_Angular_Frequency
14.035	F ₃₂	DPT_Value_Heat_Capacity
14.036	F ₃₂	DPT_Value_Heat_FlowRate
14.037	F ₃₂	DPT_Value_Heat_Quantity
14.038	F ₃₂	DPT_Value_Impedance
14.039	F ₃₂	DPT_Value_Length
14.040	F ₃₂	DPT_Value_Light_Quantity
14.041	F ₃₂	DPT_Value_Luminance
14.042	F ₃₂	DPT_Value_Luminous_Flux
14.043	F ₃₂	DPT_Value_Luminous_Intensity
14.044	F ₃₂	DPT_Value_Magnetic_FieldStrength
14.045	F ₃₂	DPT_Value_Magnetic_Flux
14.046	F ₃₂	DPT_Value_Magnetic_FluxDensity
14.047	F ₃₂	DPT_Value_Magnetic_Moment
14.048	F ₃₂	DPT_Value_Magnetic_Polarization
14.049	F ₃₂	DPT_Value_Magnetization
14.050	F ₃₂	DPT_Value_MagnetomotiveForce
14.051	F ₃₂	DPT_Value_Mass
14.052	F ₃₂	DPT_Value_MassFlux
14.053	F ₃₂	DPT_Value_Momentum
14.054	F ₃₂	DPT_Value_Phase_AngleRad
14.055	F ₃₂	DPT_Value_Phase_AngleDeg
14.056	F ₃₂	DPT_Value_Power
14.057	F ₃₂	DPT_Value_Power_Factor
14.058	F ₃₂	DPT_Value_Pressure
14.059	F ₃₂	DPT_Value_Reactance
14.060	F ₃₂	DPT_Value_Resistance
14.061	F ₃₂	DPT_Value_Resistivity
14.062	F ₃₂	DPT_Value_SelfInductance
14.063	F ₃₂	DPT_Value_SolidAngle
14.064	F ₃₂	DPT_Value_Sound_Intensity
14.065	F ₃₂	DPT_Value_Speed
14.066	F ₃₂	DPT_Value_Stress
14.067	F ₃₂	DPT_Value_Surface_Tension
14.068	F ₃₂	DPT_Value_Common_Temperature
14.069	F ₃₂	DPT_Value_Absolute_Temperature

DPT_ID	Format	DPT_Name
14.070	F ₃₂	DPT_Value_TemperatureDifference
14.071	F ₃₂	DPT_Value_Thermal_Capacity
14.072	F ₃₂	DPT_Value_Thermal_Conductivity
14.073	F ₃₂	DPT_Value_ThermoelectricPower
14.074	F ₃₂	DPT_Value_Time
14.075	F ₃₂	DPT_Value_Torque
14.076	F ₃₂	DPT_Value_Volume
14.077	F ₃₂	DPT_Value_Volume_Flux
14.078	F ₃₂	DPT_Value_Weight
14.079	F ₃₂	DPT_Value_Work
15.000	U ₄ U ₄ U ₄ U ₄ U ₄ B ₄ N ₄	DPT_Access_Data
16.000	A ₁₄	DPT_String_ASCII
16.001	A ₁₄	DPT_String_8859_1
17.001	r ₂ U ₆	DPT_SceneNumber
18.001	B ₁ r ₁ U ₆	DPT_SceneControl
19.001	U ₈ [r ₄ U ₄][r ₃ U ₅][U ₃ U ₅][r ₂ U ₆][r ₂ U ₆]B ₁₆	DPT_DateTime
20.001	N ₈	DPT_SCLOMode
20.002	N ₈	DPT_BuildingMode
20.003	N ₈	DPT_OccMode
20.004	N ₈	DPT_Priority
20.005	N ₈	DPT_LightApplicationMode
20.006	N ₈	DPT_ApplicationArea
20.007	N ₈	DPT_AlarmClassType
20.008	N ₈	DPT_PSUMode
20.011	N ₈	DPT_ErrorClass_System
20.012	N ₈	DPT_ErrorClass_HVAC
20.013	N ₈	DPT_Time_Delay
20.017	N ₈	DPT_SensorSelect
20.100	N ₈	DPT_FuelType
20.101	N ₈	DPT_BurnerType
20.102	N ₈	DPT_HVACMode
20.103	N ₈	DPT_DHWMode
20.104	N ₈	DPT_LoadPriority
20.105	N ₈	DPT_HVACContrMode
20.106	N ₈	DPT_HVACEmergMode
20.107	N ₈	DPT_ChangeoverMode
20.108	N ₈	DPT_ValveMode
20.109	N ₈	DPT_DamperMode
20.110	N ₈	DPT_HeaterMode
20.111	N ₈	DPT_FanMode
20.112	N ₈	DPT_MasterSlaveMode
20.113	N ₈	DPT_StatusRoomSetp
20.600	N ₈	DPT_Behaviour_Lock_Unlock
20.601	N ₈	DPT_Behaviour_Bus_Power_Up_Down
20.1000	N ₈	DPT_CommMode
20.1001	N ₈	DPT_AddInfoTypes
20.1002	N ₈	DPT_RF_ModeSelect
20.1003	N ₈	DPT_RF_FilterSelect
21.001	B ₈	DPT_StatusGen
21.002	B ₈	DPT_Device_Control
21.100	B ₈	DPT_ForceSign
21.101	B ₈	DPT_ForceSignCool
21.102	B ₈	DPT_StatusRHC

DPT_ID	Format	DPT_Name
21.103	B ₈	DPT_StatusSDHWC
21.104	B ₈	DPT_FuelTypeSet
21.105	B ₈	DPT_StatusRCC
21.106	B ₈	DPT_StatusAHU
21.1000	B ₈	DPT_RF_ModelInfo
21.1001	B ₈	DPT_RF_FilterInfo
22.100	B ₁₆	DPT_StatusDHWC
22.101	B ₁₆	DPT_StatusRHCC
22.1000	B ₁₆	DPT_Media
23.001	N ₂	DPT_OnOff_Action
23.002	N ₂	DPT_Alarm_Reaction
23.003	N ₂	DPT_UpDown_Action
23.102	N ₂	DPT_HVAC_PB_Action
24.001	A[n]	DPT_VarString_8859_1
25.1000	U ₄ U ₄	DPT_DoubleNibble
26.001	r ₁ b ₁ U ₆	DPT_SceneInfo
27.001	B ₃₂	DPT_CombinedInfoOnOff
28.001	A[n]	DPT_UTF-8
200.100	B ₁ Z ₈	DPT_Heat/Cool_Z
200.101	B ₁ Z ₈	DPT_BinaryValue_Z
201.100	N ₈ Z ₈	DPT_HVACMode_Z
201.102	N ₈ Z ₈	DPT_DHWMode_Z
201.104	N ₈ Z ₈	DPT_HVACContrMode_Z
201.105	N ₈ Z ₈	DPT_EnablH/Cstage_Z DPT_EnablH/CStage
201.107	N ₈ Z ₈	DPT_BuildingMode_Z
201.108	N ₈ Z ₈	DPT_OccMode_Z
201.109	N ₈ Z ₈	DPT_HVACEmergMode_Z
202.001	U ₈ Z ₈	DPT_RelValue_Z
202.002	U ₈ Z ₈	DPT_UCountValue8_Z
203.002	U ₁₆ Z ₈	DPT_TimePeriodMsec_Z
203.003	U ₁₆ Z ₈	DPT_TimePeriod10Msec_Z
203.004	U ₁₆ Z ₈	DPT_TimePeriod100Msec_Z
203.005	U ₁₆ Z ₈	DPT_TimePeriodSec_Z
203.006	U ₁₆ Z ₈	DPT_TimePeriodMin_Z
203.007	U ₁₆ Z ₈	DPT_TimePeriodHrs_Z
203.011	U ₁₆ Z ₈	DPT_UFlowRateLiter/h_Z
203.012	U ₁₆ Z ₈	DPT_UCountValue16_Z
203.013	U ₁₆ Z ₈	DPT_UEICurrentµA_Z
203.014	U ₁₆ Z ₈	DPT_PowerKW_Z
203.015	U ₁₆ Z ₈	DPT_AtmPressureAbs_Z
203.017	U ₁₆ Z ₈	DPT_PercentU16_Z
203.100	U ₁₆ Z ₈	DPT_HVACAirQual_Z
203.101	U ₁₆ Z ₈	DPT_WindSpeed_Z DPT_WindSpeed
203.102	U ₁₆ Z ₈	DPT_SunIntensity_Z
203.104	U ₁₆ Z ₈	DPT_HVACAirFlowAbs_Z
204.001	V ₈ Z ₈	DPT_RelSignedValue_Z
205.002	V ₁₆ Z ₈	DPT_DeltaTimeMsec_Z
205.003	V ₁₆ Z ₈	DPT_DeltaTime10Msec_Z
205.004	V ₁₆ Z ₈	DPT_DeltaTime100Msec_Z
205.005	V ₁₆ Z ₈	DPT_DeltaTimeSec_Z
205.006	V ₁₆ Z ₈	DPT_DeltaTimeMin_Z
205.007	V ₁₆ Z ₈	DPT_DeltaTimeHrs_Z
205.100	V ₁₆ Z ₈	DPT_TempHVACAbs_Z

DPT_ID	Format	DPT_Name
205.101	V ₁₆ Z ₈	DPT_TempHVACRel_Z
205.102	V ₁₆ Z ₈	DPT_HVACAirFlowRel_Z
206.100	U ₁₆ N ₈	DPT_HVACModeNext
206.102	U ₁₆ N ₈	DPT_DHWModeNext
206.104	U ₁₆ N ₈	DPT_OccModeNext
206.105	U ₁₆ N ₈	DPT_BuildingModeNext
207.100	U ₈ B ₈	DPT_StatusBUC
207.101	U ₈ B ₈	DPT_LockSign
207.102	U ₈ B ₈	DPT_ValueDemBOC
207.104	U ₈ B ₈	DPT_ActPosDemAbs
207.105	U ₈ B ₈	DPT_StatusAct
209.100	V ₁₆ B ₈	DPT_StatusHPM
209.101	V ₁₆ B ₈	DPT_TempRoomDemAbs
209.102	V ₁₆ B ₈	DPT_StatusCPM
209.103	V ₁₆ B ₈	DPT_StatusWTC
210.100	V ₁₆ B ₁₆	DPT_TempFlowWaterDemAbs
211.100	U ₈ N ₈	DPT_EnergyDemWater
212.100	V ₁₆ V ₁₆ V ₁₆	DPT_TempRoomSetpSetShift[3]
212.101	V ₁₆ V ₁₆ V ₁₆	DPT_TempRoomSetpSet[3]
213.100	V ₁₆ V ₁₆ V ₁₆ V ₁₆	DPT_TempRoomSetpSet[4]
213.101	V ₁₆ V ₁₆ V ₁₆ V ₁₆	DPT_TempDHWSetpSet[4]
213.102	V ₁₆ V ₁₆ V ₁₆ V ₁₆	DPT_TempRoomSetpSetShift[4]
214.100	V ₁₆ U ₈ B ₈	DPT_PowerFlowWaterDemHPM
214.101	V ₁₆ U ₈ B ₈	DPT_PowerFlowWaterDemCPM
215.100	V ₁₆ U ₈ B ₁₆	DPT_StatusBOC
215.101	V ₁₆ U ₈ B ₁₆	DPT_StatusCC
216.100	U ₁₆ U ₈ N ₈ B ₈	DPT_SpecHeatProd
217.001	U ₅ U ₅ U ₆	DPT_Version
218.001	V ₃₂ Z ₈	DPT_VolumeLiter_Z
219.001	U ₈ N ₈ N ₈ N ₈ B ₈ B ₈	DPT_AlarmInfo
220.100	U ₁₆ V ₁₆	DPT_TempHVACAbsNext
221.001	N ₁₆ U ₃₂	DPT_SerNum
222.100	F ₁₆ F ₁₆ F ₁₆	DPT_TempRoomSetpSetF16[3]
222.101	F ₁₆ F ₁₆ F ₁₆	DPT_TempRoomSetpSetShiftF16[3]
223.100	V ₈ N ₈ N ₈	DPT_EnergyDemAir
224.100	V ₁₆ V ₁₆ N ₈ N ₈	DPT_TempSupply AirSetpSet
225.001	U ₁₆ U ₈	DPT_ScalingSpeed
225.002	U ₁₆ U ₈	DPT_Scaling_Step_Time
229.001	V ₃₂ N ₈ Z ₈	DPT_MeteringValue
230.1000	U ₁₆ U ₃₂ U ₈ N ₈	DPT_MBus_Address

6 Identifiers from E-Mode

6.1 Channel Codes

Channel Name	Based on Functional Block (Interface Object Type)	Channel Code	Ref.
CH_PB_Toggle	421 - FB Switching Sensor Basic	0002h	[28]
CH_PB_Timed	406 - FB Timed Sensor	0003h	[28]
CH_PB_Timed_Info	406 - FB Timed Sensor 421 - FB Switching Sensor Basic	0004h	[28]
CH_PB_Dimmer	420 - FB Dimming Sensor Basic	0005h	[28]
CH_PB_Dimmer_Toggle	420 - FB Dimming Sensor Basic	0006h	[28]
CH_PB_Scene_Numbered	403 - FB Scene Sensor	0007h	[28]
CH_PB_Scene	403 - FB Scene Sensor	0008h	[28]
CH_Switch	406 - FB Switching Sensor Basic	0009h	[28]
CH_Switch_Info	406 - FB Switching Sensor Basic	000Ah	[28]
CH_Switch_Forced	405 - FB Priority Sensor	000Bh	[28]
CH_Switch_Dimmer	420 - FB Dimming Sensor Basic	000Ch	[28]
CH_Switch_Dimmer_Info	420 - FB Dimming Sensor Basic	000Dh	[28]
CH_Switch_Dimmer_Toggle	420 - FB Dimming Sensor Basic	000Eh	[28]
CH_Switch_Scene_Numbered	403 - FB Scene Sensor	000Fh	[28]
CH_Switch_Scene	403 - FB Scene Sensor	0010h	[28]
CH_Light_Setpoint_Controller	408 - FB_Room_Light_Setpoint 415 - FB_Room_Light_Controller	0011h	[28]
CH_Light_Sensor	409 - FB Room Light Sensor	0012h	[28]
CH_Motion_Detector_Basic	414 - FB Movement Detector for Lighting	0013h	[28]
CH_Motion_Detector_Complex	414 - FB Movement Detector for Lighting	0014h	[28]
CH_Switch_Shutter	801 - FB Sunblind Sensor Basic	0015h	[31]
CH_Switch_Blind	801 - FB Sunblind Sensor Basic	0016h	[31]
CH_PB_Shutter	801 - FB Sunblind Sensor Basic	0017h	[31]
CH_PB_Blind	801 - FB Sunblind Sensor Basic	0018h	[31]
CH_PB_Shutter_Toggle	801 - FB Sunblind Sensor Basic	0019h	[31]
CH_PB_Blind_Toggle	801 - FB Sunblind Sensor Basic	001Ah	[31]
CH_Wind_Alarm_Sensor	802 - FB Wind Sensor	001Bh	[31]
CH_Rain_Alarm_Sensor	803 - FB Rain Sensor	001Ch	[31]
CH_Frost_Alarm_Sensor	804 - FB Frost Sensor	001Dh	[31]
CH_Switch_Operation_Mode	421 - FB Switching Sensor Basic	001Eh	[28]
CH_Logical_Sensor	421 - FB Switching Sensor Basic	001Fh	[09]
CH_PushButton	421 - FB Switching Sensor Basic	0020h	[28]
CH_Battery_Status	1005 - FB Battery Status	0021h	[09]
CH_Smoke_Detector_Basic	1004 - FB Smoke Alarm	0022h	[09]
CH_Window_Door_Contact_Basic	343 - FB Window Switch	0023h	[09]
CH_Outside_Temperature_Sensor	320 - FB Outside Temperature Sensor	0024h	[17]
CH_Room_Temperature_Sensor	321 - FB Room Temperature Sensor	0025h	[17]
CH_PB_HVAC_Mode	384 - User HVAC Room Settings	0027h	[17]
CH_Switch_HVAC_Heating_Enabled	401 - FB_Switch	0028h	[17]
CH_Forced_Info	1020 - FB Priority Sensor 421 - FB Switching Sensor Basic	002Bh	[10]
CH_PB_Dimming_Value_Info	420 - FB Dimming Sensor Basic	002Ch	[28]
CH_Switch_Dimming_Value_Info	420 - FB Dimming Sensor Basic	002Dh	[28]
CH_PB_HVAC_Mode_1	384 - User HVAC Room Settings	002Eh	[17]
CH_PB_Shutter_1	801 - Sunblind Sensor Basic	002Fh	[31]
CH_Status_Info	421 - FB Switching Sensor Basic	0100h	[28]
CH_Binary_Actuator_Basic	417 - FB Light Switching Actuator Basic	0101h	[28]

Channel Name	Based on Functional Block (Interface Object Type)	Channel Code	Ref.
CH_Light_Actuator_Complex	417 - FB Light Switching Actuator Basic	0102h	[28]
CH_Light_Actuator_Scene	417 - FB Light Switching Actuator Basic	0103h	[28]
CH_Light_Actuator_Controlled	417 - FB Light Switching Actuator Basic 406 - FB Timed Sensor	0104h	[28]
CH_Dimming_Actuator_Basic	418 - FB Dimming Actuator Basic	0105h	[28]
CH_Dimming_Actuator_Complex	418 - FB Dimming Actuator Basic	0106h	[28]
CH_Dimming_Actuator_Scene	418 - FB Dimming Actuator Basic	0107h	[28]
CH_Shutter_Actuator_Basic_Wind	805 - FB Sunblind Actuator Basic	0108h	[31]
CH_ShutterBlinds_Actuator_Basic_Wind	805 - FB Sunblind Actuator Basic	0109h	[31]
CH_Shutter_Actuator_Basic_Rain	805 - FB Sunblind Actuator Basic	010Ah	[31]
CH_ShutterBlinds_Actuator_Basic_Rain	805 - FB Sunblind Actuator Basic	010Bh	[31]
CH_ShutterBlinds_Actuator_Basic	805 - FB Sunblind Actuator Basic	010Ch	[31]
CH_ShutterBlinds_Actuator_Scene	805 - FB Sunblind Actuator Basic	010Dh	[31]
CH_Logical_Actuator	1009 - FB_Logical_Actuator	010Eh	[09]
CH_Info_Adaptable	1006 - FB Display	0120h	[09]
CH_Logic_AndOr	1007 - FB_Logic_AndOr	0200h	[09]
CH_8_Scenes_4_Outputs_Basic	1010 - FB Scene Controller	0201h	[09]
CH_4_Scenes_4_Outputs_Complex	1010 - FB Scene Controller	0202h	[09]
CH_Scene_Converter	1012 - FB Scheduler	0203h	[09]
CH_Event_Scheduler_4_Outputs	1012 - FB Scheduler	0204h	[09]
CH_DateTime_Scheduler	1001 - FB System Clock 1012 - FB Scheduler	0205h	[09]
CH_System_Clock_Master	1001 - FB System Clock	0206h	[09]
CH_HVAC_Mode_Scheduler	110 - FB HVAC Mode Scheduler HVACS	0207h	[17]
CH_Room_Regulator_Type_A	257 - Radiator and Chilled Ceiling Room Control (RCCRC) 100 - Room Setpoint Manager HVAC Mode Driven (RSMHD) 384 - User HVAC Room Settings (UHRS) xxx - FB_Position_to_On_Off_- Converter	0208h	[17]
CH_System_Clock_Slave	1001 - FB System Clock	0209h	[09]
CH_PB_Dimming_Value	420 - FB Dimming Sensor Basic	0029h	[28]
CH_Push_Button_Info	421 - FB Switching Sensor Basic	002Ah	[28]
CH_LightSensor_Slave	419 - FB Light Sensor Slave	020Ah	[28]
CH_Light_Setpoint_Controller_Info	408 - FB_Room_Light_Setpoint 415 - FB_Room_Light_Controller	020Bh	[28]
CH_Generic_Switch1	See description	0300h	[10]
CH_Generic_Switch2	See description	0301h	[10]
CH_Generic_Switch3	See description	0302h	[10]
CH_Generic_Switch4	See description	0303h	[10]
CH_Generic_Switch_Info1	See description	0304h	[10]
CH_Generic_Switch_Info2	See description	0305h	[10]
CH_Generic_Switch_FixedPos1	See description	0306h	[10]
CH_Generic_Switch_FixedPos2	See description	0307h	[10]
CH_Generic_PB_Info_1	See description	0308h	[10]
CH_Generic_PB2	See description	0309h	[10]
CH_Generic_PB3	See description	030Ah	[10]
CH_Generic_PB4	See description	030Bh	[10]
CH_Generic_PB_1/2_1	See description	030Ch	[10]
CH_Generic_PB_1/2_Info_1	See description	030Dh	[10]

Channel Name	Based on Functional Block (Interface Object Type)	Channel Code	Ref.
CH_Generic_PB_1/2_Info_2	See description	030Eh	[10]
CH_Generic_Binary_Contact	See description	030Fh	[10]
CH_Generic_Switch_5	401 - FB_Switch 2 x 403 - FB_PB_Scene_Numbered 410 - FB_Switch_Dimmer 800 - FB_Switch_Sunblind	0311h	[10]
CH_Generic_PB_1/2_Info_3	421 - FB Switching Sensor Basic 420 - FB Dimming Sensor Basic 801 - FB Sunblind Sensor Basic 403 - FB Scene Sensor 406 - FB Timed Sensors 384 - FB User HVAC Room Setting nnn - FB Lock Sensor	0312h	[10]
CH_Generic_PB_Info_4	421 - FB Switching Sensor Basic 420 - FB Dimming Sensor Basic 801 - FB Sunblind Sensor Basic 403 - FB Scene Sensor 406 - FB Timed Sensors 1020 - FB Priority Sensor 802 - FB Wind Alarm 803 - FB Rain Alarm 384 - FB User HVAC Room Setting (UHRS) ??? - FB Lock Sensor	0313h	[10]
CH_Generic_PB_1/2_2	421 - FB Switching Sensor Basic 801 - FB Sunblind Sensor Basic 406 - FB Timed Sensors 1020 - FB Priority Sensor 403 - FB Scene Sensor 421 - FB Switching Sensor Basic 384 - FB User HVAC Room Setting 420 - FB Dimming Sensor Basic	0314h	[10]
CH_Generic_Switch_Lighting - Complex_Info		0315h	[10]
CH_Generic_PB_½_Info_5	421 - FB Switching Sensor Basic 420 - FB Dimming Sensor Basic 801 - Sunblind Sensor Basic 403 - FB Scene Sensor 406 - FB Timed Sensor 1020 - FB Priority Sensor 802 - FB Wind Sensor 803 - FB Rain Sensor 384 - User HVAC Room Settings (UHRS) 421 - FB Switching Sensor Basic	0316h	[10]
CH_ShutterBlinds_Actuator_Scene_1	805 - FB Shutter Actuator Basic	0480h	[31]
CH_Heating_Valve_Actuator	352 - HVAC Valve Actuator	0501h	[17]
CH_HVACMode_Display	390 - User HVAC Display	0502h	[17]
CH_Electrical_Heating_Actuator - Type_A	369 - Electrical Heating Element Actuator 352 - HVAC Valve Actuator	0503h	[17]
CH_Electrical_Heating_Enable - Disable	369 - Electrical Heating Element Actuator 352 - HVAC Valve Actuator	0504h	[17]
CH_HVAC_Mode_Display2	295 - KNX to Fil Pilote Converter (KFP)	0505h	[17]

Channel Name	Based on Functional Block (Interface Object Type)	Channel Code	Ref.
CH_FAN_COIL_HMI	321 - Room Temperature Sensor (RTS) 384 - User HVAC Room Settings (UHRS) 393 – User Fan Speed Setting (UFS)	0507h	[25]
CH_MASTER_FANCOIL_- CONTROLLER	324 - Flow Water Temperature Sensor (FWTS) 342 - Water Change Over Status (WCOS) 343 - Window switch (WOS) 345 - Presence detector (PRD) 104 - Programme to HVAC Mode conversion (PMC) 323 - Return Air Temperature Sensor (RNATS) 328 - Discharge Air Temperature Sensor (DATS) 100 - Room SetPoint Manager HVAC – Mode Driven (RSMHD) 102 - SetPoint Manager Air Quality (SMAQ) 103 - Setpoint Manager Relative Humidity (SMRH) 115 - HVAC Optimiser (HVAC OPT) 258 - Fan Coil Control (Basic Part and Additions for Air Quality) (FCC) 240 - Air Handling Unit Controller (AHUC) 1002 - Alarm Source (ALSrc) 369 - Electrical Heating Element Actuator (EHEA) 352 - HVAC Valve Actuator (HVA) 372 - Fan Speed Actuator (FSA) 362 - Air Damper Actuator (ADA) 199 - Cold Water Producer Manager (CPM) 136 - Heat Producer Manager (HPM)	0508h	[25]
CH_SLAVE_FANCOIL_- CONTROLLER	324 - Flow Water Temperature Sensor (FWTS) 342 - Water Change Over Status (WCOS) 343 - Window switch (WOS) 323 - Return Air Temperature Sensor (RNATS) 328 - Discharge Air Temperature Sensor (DATS) 258 - Fan Coil Control (Basic Part and Additions for Air Quality) (FCC) 240 - Air Handling Unit Controller (AHUC) 1002 - Alarm Source (ALSrc) 369 - Electrical Heating Element Actuator (EHEA) 352 - HVAC Valve Actuator (HVA) 372 - Fan Speed Actuator (FSA) 362 - Air Damper Actuator (ADA) 199 – Cold Water Producer Manager (CPM) 136 – Heat Producer Manager (HPM)	0509h	[25]
CH_ElectricalEnergy_Tariff_Sensor	1120 - FB Electrical Energy Tariff Sensor	0580h	[33]
CH_Energy_Tariff_Display	1121 - FB Electrical Energy Tariff Display	0581h	[33]

Channel Name	Based on Functional Block (Interface Object Type)	Channel Code	Ref.
CH_Tariff_Sensor	1122 - FB Tariff Sensor	0582h	[33]
CH_Tariff_Display	1123 - FB Tariff Display	0583h	[33]

6.2 Connection Codes

Identifier		Name	Data Format
Dec.	Hex.		
1	01h	CC_Switch_OnOff	1.x
2	02h	CC_Switch_OnOff_Status	1.x
3	03h	CC_Timed	1.x
4	04h	CC_Forced	2.x
5	05h	CC_Dimming_Ctrl	3.x
6	06h	CC_Dimming_Value	5.x
7	07h	CC_Illumination	9.x
8	08h	CC_Scene_Number	18.001
9	09h	CC_Event	1.x
10	0Ah	CC_Learn	1.x
11	0Bh	CC_Move_UpDown	1.x
12	0Ch	CC_StepStop_UpDown	1.007
13	0Dh	CC_Move_UpDown_Status	1.x
14	0Eh	CC_Wind	1.x
15	0Fh	CC_Rain	1.x
16	10h	CC_Enable	1.x
17	11h	CC_Frost	1.x
18	12h	CC_Operation_Mode	1.x
19	13h	CC_Logical	1.x
20	14h	CC_Stop	1.x
21	15h	This Connection Code is reserved for future extensions and shall not be used.	Not applicable.
22	16h	CC_Date	11.001
23	17h	CC_Time	10.001
24	18h	CC_Activate	1.022 DPT_Scene_AB
25	19h	CC_Adapt_1Bit	all DPTs with size 1 bit
26	1Ah	CC_Adapt_8Bit	all DPTs with size 1 octet
27	1Bh	CC_Adapt_16Bit	all DPTs with size 1 octet
28	1Ch	CC_Battery_Status	1.006
29	1Dh	CC_Smoke_Alarm	1.005
30	1Eh	CC_Window_Status	1.019
31	1Fh	CC_HVAC_Mode	20.102
32	20h	CC_Dimming_Value_Status	5.x
33	21h	CC_Heating_Enabled	1.003
34	22h	CC_Temperature	9.001
35	23h	CC_Scaling_Value	5.001
36	24h	CC_Outside_Temperature (CC_TO)	9.001
37	25h	CC_TR (room temperature)	9.001
38	26h	CC_WindSpeed	9.005
39	27h	CC_HVAC_Mode_Status	20.102
40	28h	CC_TF	9.001
41	29h	CC_HeatCool	1.100
42	2Ah	CC_HeatCool_Status	1.100
43	2Bh	CC_TRSUA	9.001
44	2Ch	CC_TemperatureD	9.002
45	2Dh	CC_Trigger	1.017

Identifier		Name	Data Format
Dec.	Hex.		
46	2Eh	CC_FanSpeed	5.001
47	2Fh	CC_Enable_Fan	1.003
48	30h	CC_Temperature_SetpSet_Heat	222.100
49	31h	CC_Temperature_SetpSet_Cool	222.100
50	32h	CC_TemperatureD_SetpSet_Heat	222.101
51	33h	CC_TemperatureD_SetpSet_Heat	222.101
52	34h	CC_HVAC_Cooling_Enabled	1.003
53	35h	CC_Contr_Mode	20.105
54	36h	CC_Presence_Status	1.018
55	37h	CC_AQ_Room	9.008
56	38h	CC_AQ_Setpoint	9.008
57	39h	CC_HumRel_Room	9.007
58	3Ah	CC_HumRel_Setpoint	9.007
59	3Bh	CC_Enable_AlarmInfo	1.003
60	3Ch	CC_AlarmAck	1.016
61	3Dh	CC_HVAC_Mode_User	20.102
62	3Eh	CC_Building_Mode	20.002
63	3Fh	CC_Occupancy_Mode	20.003
64	40h	CC_Elec_Power_Limit	5.001
65	41h	CC_Fancoil_AlarmInfo	219.001
66	42h	CC_Fancoil_AlarmText	16.001
67	43h	CC_Fancoil_Alarm	1.005
68	44h	CC_Heating_ValueA_Status	5.001
69	45h	CC_Heating_ValueB_Status	5.001
70	46h	CC_Cooling_ValueA_Status	5.001
71	47h	CC_Fresh_Air_Status	5.001
72	48h	CC_Fan_Speed_Status	5.001
73	49h	CC_Electric_Consumption	13.013
74	4Ah	CC_Fan_Consumption	13.013
75	4Bh	CC_Coil_Consumption_AC	13.013
76	4Ch	CC_Coil_Consumption_AH	13.013
77	4Dh	CC_PowerRel_Production_Cool	5.004
78	4Eh	CC_PowerRel_Production_Heat	5.004
79	4Fh	CC_Temperature_Return_Air	9.001
80	50h	CC_Temperature_Discharge_Air	9.001
81	51h	CC_Temperature_Flow_Water	9.001
82	52h	CC_Temp_SetpSet_Heat_Status	222.100
83	53h	CC_Temp_SetpSet_Cool_Status	222.100
84	54h	CC_Window_Switch	1.019
85	55h	CC_Air_Quality_Status	9.008
86	56h	CC_HumRelDehum_Status	9.007
87	57h	CC_Heating_ValueB	5.001
88	58h	CC_Cooling_ValueA	5.001
89	59h	CC_Fresh_Air_Setpoint	5.001
90	5Ah	CC_Fan_Speed_Setpoint	5.001
91	5Bh	CC_Enable_Info_Heat	1.003
92	5Ch	CC_Enable_Info_Cool	1.003
93	5Dh	CC_HVAC_Mode_Optim	20.102
94	5Eh	CC_Enable_AlarmText	1.003
95	5Fh	CC_EnergyDemAC	5.004
96	60h	CC_EnergyDemAH	5.004
97	61h	CC_EnergyDemAir	5.004
98	62h	CC_EnergyDemAC_Status	5.004
99	63h	CC_EnergyDemAH_Status	5.004

Identifier		Name	Data Format
Dec.	Hex.		
100	64h	CC_EnergyDemAir_Status	5.004
108	6Ch	CC_Tariff	5.006
109	6Dh	CC_TariffNext	225.003
110	6Eh	CC_Value_Power	14.056
111	6Fh	CC_Tariff_ActiveEnergy_Total	235.001
112	70h	CC_Tariff_ActiveEnergy_Partial	235.001
113	71h	CC_Reset	1.005