

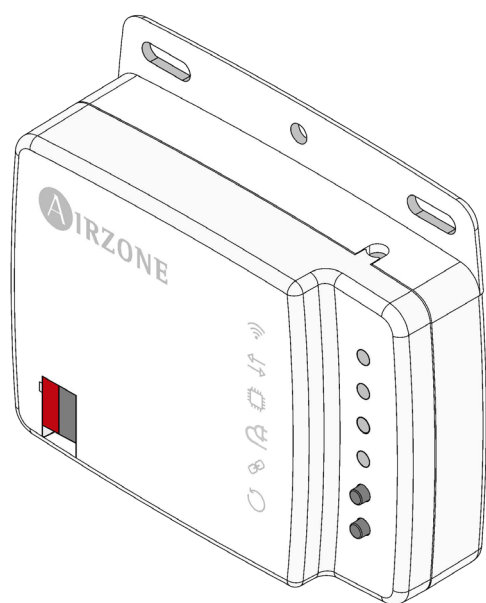


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Integration manual

Aidoo KNX

Air-to-Water Heat Pump [AZAI6KNX2xxx]



AIRZONE

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Warnings and environmental policy

WARNINGS

For your security, and to protect the devices, follow these instructions:

- Do not handle the system with wet or damp hands.
- Disconnect the power supply before making any connections.
- Take care not to cause a short circuit in any of the system connections.

ENVIRONMENTAL POLICY



Do not dispose of this equipment in the household waste. Electrical and electronic equipment contain substances that may damage the environment if they are not handled appropriately. The symbol of a crossed-out waste bin indicates that electrical equipment should be collected separately from other urban waste. For correct environmental management, it must be taken to the collection centers provided for this purpose, at the end of its useful life.

The equipment's components may be recycled. Act in accordance with current regulations on environmental protection.

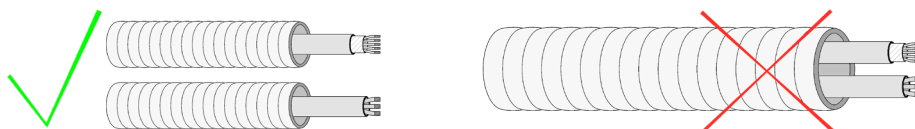
If you replace it with other equipment, you must return it to the distributor or take it to a specialized collection center.

Those breaking the law or by-laws will be subject to such fines and measures as are laid down in environmental protection legislation.

General requirements

Strictly follow the directions outlined in this manual:

- This system must be installed by a qualified technician.
- Verify that the units to be controlled have been installed according to the manufacturer's requirements and operate correctly before installing the Airzone System.
- Locate and connect all the devices of the installation in accordance with the electronic regulations in force.
- Verify that the air conditioning installation to be controlled is in accordance with the regulations in force.
- Perform all the connections with total absence of power supply.
- Do not place the system bus close to lines of force, fluorescent lights, LED lamps, motors, etc. It might cause interference on the communications.



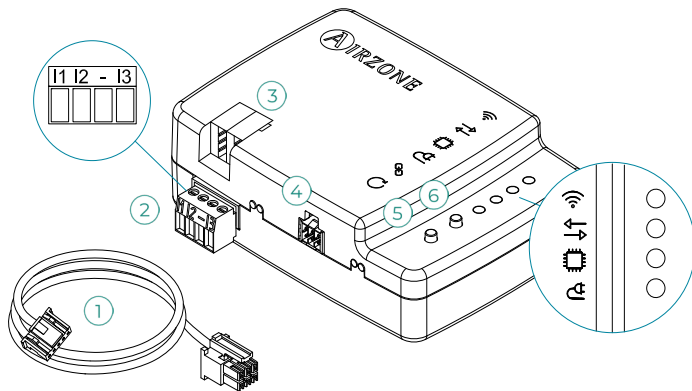
- Respect the connection polarity of each device. A wrong connection may seriously damage the product.

Introduction

Device to manage and integrate Air-to-Water HP units in KNX TP-1 control systems. Externally powered by the KNX bus.

Functionalities:

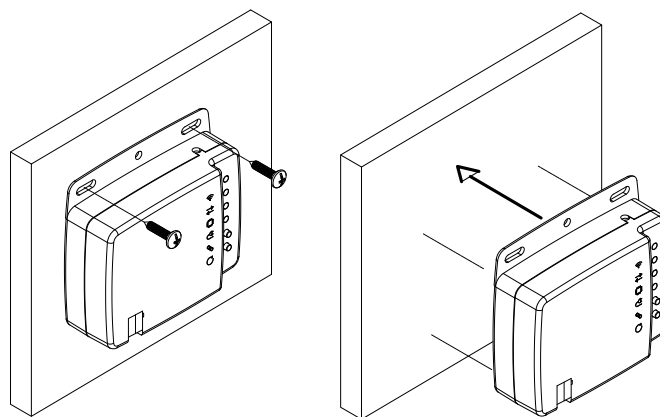
- Control of the parameters of the unit.
- KNX control.
- KNX standard data.
- 3 digital inputs.
- Easily configurable from ETS.
- Communication errors detection.



Meaning	
①	Indoor unit wire
	I1: Digital input 1
	I2: Digital input 2
	-: Common input
	I3: Digital input 3
③	KNX connection
④	Indoor unit port
⑤	Device reboot
⑥	Enable KNX programming

Assembly

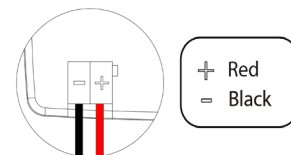
The device can be mounted using screws or double-sided adhesive tape (included with the product).



Connection

To connect the device to the ATW HP unit, follow the instructions on the technical datasheet that comes with the Aidoo.

It has a standard KNX connector for connecting to the KNX bus. Connect the Aidoo to the KNX TP-1 bus, following the color code.



Configuration

This device is totally compatible with KNX, so you can configure it and set it up through ETS tool. To do this, download the product database at:

[KNX Database](#)

The installation of the database in the ETS tool is carried out following the usual procedure for importing new products.

Communication objects

The Aidoo KNX device has a series of communication objects available for configuration by default. If you wish to use all the communication objects contained in this device, go to the "Parameters" tab in order to enable them (see the [Configuration parameters](#) section for more information).

IMPORTANT: The number of functionalities that can be controlled by the different communication objects offered by the Aidoo KNX device will depend on the particular ATW HP unit being controlled.

DEFAULT COMMUNICATION OBJECTS

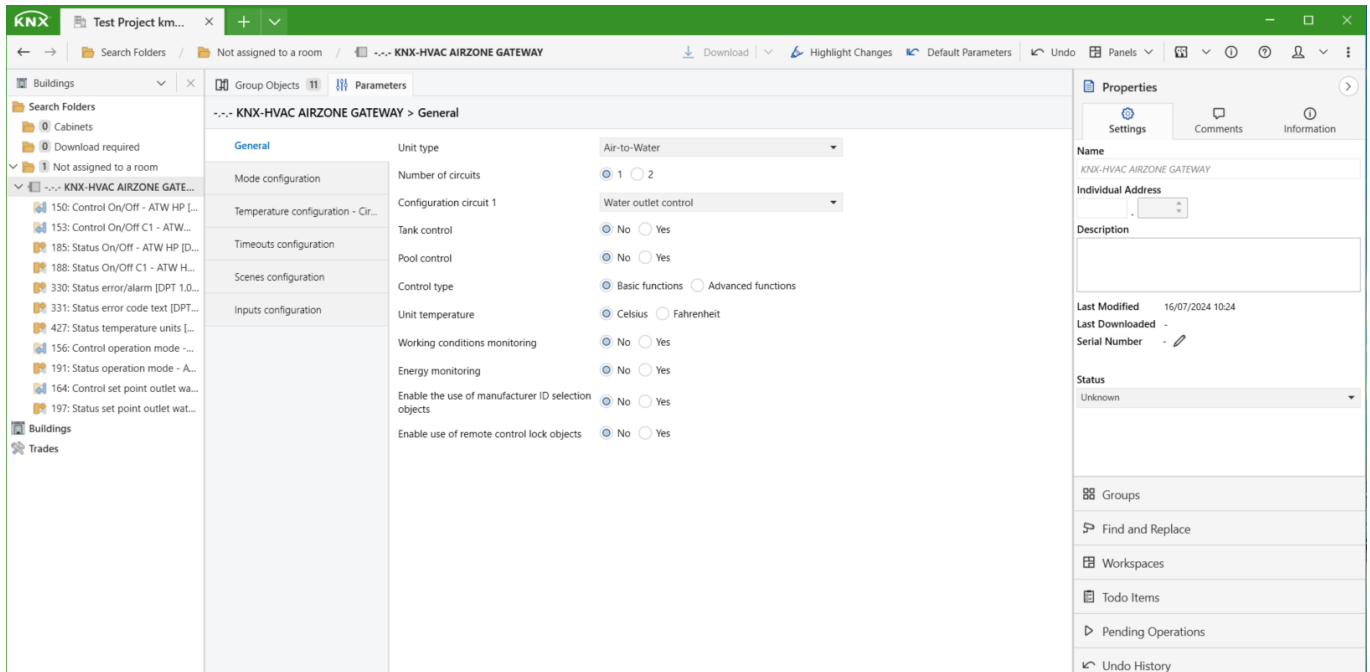
By selecting "Air-to-Water" as unit type, the default communication objects available in ETS for the Aidoo KNX device are included in "Basic functions" within the control type option. The default temperature unit is Celsius, the number of circuits available is 1 configured as outlet control.

Object number	150: Control On/Off - ATW HP	
Description	This allows you to switch the Air-to-Water HP unit on or off	
Values	0 → Off	1 → On
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	
Object number	185: Status On/Off - ATW HP	
Description	This shows the status of the Air-to-Water HP unit (on or off)	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	
Object number	153: Control On/Off C1 - ATW HP	
Description	This allows you to switch circuit 1 of the Air-to-Water HP unit on or off	
Values	0 → Off	1 → On
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	
Object number	188: Status On/Off C1 - ATW HP	
Description	This shows the status of the circuit 1 of the Air-to-Water HP unit	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	
Object number	156: Control operation mode - ATW HP	
Description	This allows you to change the Air-to-Water HP unit's operating mode	
Values	0 → Auto 1 → Heat	3 → Cool
Type of access to the bus	Write	
Datapoint identification	20.105 (DPT_HVACContrMode)	
Object number	191: Status operation mode - ATW HP	
Description	This shows the operating mode of the Air-to-Water HP unit	
Values	0 → Auto 1 → Heat	3 → Cool
Type of access to the bus	Reading	
Datapoint identification	20.105 (DPT_HVACContrMode)	

Object number 164: Control set point outlet water temperature C1 - ATW HP**Description** This allows you to select the circuit 1 set point outlet water temperature in increments of 1 °C/°F**Values** °C °F**Type of access to the bus** Write**Datapoint identification** 9.001 (DPT_Value_Temp) 9.027 (DPT_Value_Temp_F)**Object number 197: Status set point outlet water temperature C1 - ATW HP****Description** This shows the set point outlet water temperature selected for circuit 1**Values** °C °F**Type of access to the bus** Reading**Datapoint identification** 9.001 (DPT_Value_Temp) 9.027 (DPT_Value_Temp_F)**Object number 330: Status error/alarm****Description** This shows whether or not an error/alarm has occurred in the indoor unit**Values** 0 → No alarm 1 → Alarm**Type of access to the bus** Reading**Datapoint identification** 1.005 (DPT_Alarm)**Object number 331: Status error code text****Description** This shows the text of the error that has occurred in the indoor unit**Values** ASCII String**Type of access to the bus** Reading**Datapoint identification** 16.001 (DPT_String_8859_1)**Object number 427: Status temperature units****Description** This shows the temperature units available in the indoor unit**Values** 0 → Celsius 1 → Fahrenheit**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)

CONFIGURATION PARAMETERS

The Aidoo KNX device has a series of communication objects that can be enabled for use via the “Parameters” tab in ETS.



General

- Number of circuits

Select “2” to enable the basic functions of circuit 2.

Object number	154: Control On/Off C2 - ATW HP	
Description	This allows you to switch circuit 2 of the Air-to-Water HP unit on or off	
Values	0 → Off	1 → On
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	
Object number	189: Status On/Off C2 - ATW HP	
Description	This shows the status of the circuit 2 of the Air-to-Water HP unit	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	
Object number	166: Control set point outlet water temperature C2 - ATW HP	
Description	This allows you to select the circuit 2 set point outlet water temperature in increments of 1 °C/°F	
Values	°C	°F
Type of access to the bus	Write	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	198: Status set point outlet water temperature C2 - ATW HP	
Description	This shows the set point outlet water temperature selected for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

- Circuit configuration. The available options are:

- ◊ Water outlet control. Default selection that enables objects 164 and 197 (C1) and 166 and 198 (C2).
- ◊ Ambient control. Replace objects 164 and 197 with 173 and 202 (C1) and objects 166 and 198 (C2) with 176 and 204.
- ◊ Curve control. Disables objects 164 and 197 (C1) and 166 and 198 (C2).

Object number	173: Control set point ambient temperature C1 - ATW HP	
Description	This allows you to select the circuit 1 set point ambient temperature in increments of 1 °C/°F	
Values	°C	°F
Type of access to the bus	Write	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	202: Status set point ambient temperature C1 - ATW HP	
Description	This shows the set point ambient temperature selected for circuit 1	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	176: Control set point ambient temperature C2 - ATW HP	
Description	This allows you to select the circuit 2 set point ambient temperature in increments of 1 °C/°F	
Values	°C	°F
Type of access to the bus	Write	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	204: Status set point ambient temperature C2 - ATW HP	
Description	This shows the set point ambient temperature selected for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

- Tank control

Object number	151: Control On/Off DHW - ATW HP	
Description	This allows you to switch the DHW on or off	
Values	0 → Off	1 → On
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	

Object number	186: Status On/Off DHW - ATW HP	
Description	This shows the status of the DHW (on or off)	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	

Object number	152: Control Powerful function - ATW HP	
Description	This allows you to switch the Powerful function on or off	
Values	0 → Off	1 → On
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	

Object number	187: Status Powerful function - ATW HP	
Description	This shows the status of the Powerful function	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	

Object number 168: Control set point temperature DHW - ATW HP

Description	This shows the set point outlet water temperature selected for DHW	
Values	°C	°F
Type of access to the bus	Write	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number 199: Status set point temperature DHW - ATW HP

Description	This shows the set point outlet water temperature selected for DHW	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

• Pool control

Object number 155: Control On/Off pool - ATW HP

Description	This allows you to switch the pool on or off	
Values	0 → Off	1 → On
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	

Object number 190: Status On/Off pool - ATW HP

Description	This shows the status of the pool (on or off)	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	

Object number 171: Control set point temperature pool - ATW HP

Description	This shows the set point outlet water temperature selected for the pool	
Values	°C	°F
Type of access to the bus	Write	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number 201: Status set point temperature pool - ATW HP

Description	This shows the set point outlet water temperature selected for the pool	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

• Control type

Select "Advanced functions" to enable more control options.

Object number 179: Control antifreeze function - ATW HP

Description	This allows you to activate the antifreeze function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	

Object number 234: Status antifreeze function - ATW HP

Description	This shows whether the antifreeze function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	

Object number	180: Control sterilization function - ATW HP	
Description	This allows you to activate the sterilization function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	236: Status sterilization function - ATW HP	
Description	This shows whether the sterilization function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	181: Control curve selection - ATW HP	
Description	This allows you to activate the curve selection	
Values	2 byte unsigned value	
Type of access to the bus	Write	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	237: Status curve selection - ATW HP	
Description	This shows the selected curve value	
Values	2 byte unsigned value	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	182: Control Eco function - ATW HP	
Description	This allows you to activate the Eco function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	256: Status Eco function - ATW HP	
Description	This shows whether the Eco function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	183: Control silence function - ATW HP	
Description	This allows you to activate the silence function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	257: Status silence function - ATW HP	
Description	This shows whether the silence function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	184: Control external heater function - ATW HP	
Description	This allows you to activate the external heater	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	

Object number	259: Status external heater function - ATW HP	
Description	This shows whether the external heater is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	235: Status defrost function - ATW HP	
Description	This shows whether the defrost function is activated	
Values	1 → Defrost	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	238: Status of the air to water working settings in water supply temperature mode C1	
Description	This shows the Air-to-Water HP unit working settings in outlet water temperature mode for circuit 1	
Values	1 → Active	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	239: Status of the air to water working settings in water supply temperature mode C2	
Description	This shows the Air-to-Water HP unit working settings in outlet water temperature mode for circuit 2	
Values	1 → Active	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	240: Status of the air to water working settings in room temperature mode C1	
Description	This shows the Air-to-Water HP unit working settings in ambient temperature mode for circuit 1	
Values	1 → Active	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	241: Status of the air to water working settings in room temperature mode C2	
Description	This shows the Air-to-Water HP unit working settings in ambient temperature mode for circuit 2	
Values	1 → Active	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	242: Status of the air to water working settings in temperature curve mode C1	
Description	This shows the Air-to-Water HP unit working settings in temperature curve mode for circuit 1	
Values	1 → Active	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	243: Status of the air to water working settings in temperature curve mode C2	
Description	This shows the Air-to-Water HP unit working settings in temperature curve mode for circuit 2	
Values	1 → Active	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	

Object number	253: Status C1 pump - ATW HP	
Description	This shows the status of the circuit 1 pump	
Values	0 → Stop	1 → Start
Type of access to the bus	Reading	
Datapoint identification	1.010 (DPT_Start)	

Object number	254: Status C2 pump - ATW HP	
Description	This shows the status of the circuit 2 pump	
Values	0 → Stop	1 → Start
Type of access to the bus	Reading	
Datapoint identification	1.010 (DPT_Start)	

Object number	255: Status SG Ready control function - ATW HP	
Description	This shows whether the SG Ready is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	

Object number	258: Status solar energy input - ATW HP	
Description	This shows whether the solar energy input is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	

Object number	260: Status Intelligent Energy	
Description	This shows whether the intelligent energy is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	

Object number	261: Status DHW tank sensor - ATW HP	
Description	This shows whether the DHW tank sensor is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	

- Working conditions monitoring

Object number	332: Status return temperature	
Description	This shows the return temperature of the indoor unit	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	333: Status internal probe temperature	
Description	This shows the temperature measured by the indoor unit's thermostat probe	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	334: Status external probe temperature	
Description	This shows the temperature measured by the outdoor unit's probe	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	335: Status working temperature	
Description	This shows the working temperature of the indoor unit	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	336: Status operating hours counter	
Description	This shows the indoor unit's number of operating hours	
Values	Number of operating hours	
Type of access to the bus	Reading	
Datapoint identification	13.100 (DPT_Value_2_Ucount)	
Object number	337: Status indoor unit exchange heating temperature	
Description	This shows the heat exchanger temperature of the indoor unit	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	338: Status outdoor unit exchange heating temperature	
Description	This shows the heat exchanger temperature of the outdoor unit	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	339: Status pump flowrate	
Description	This shows the volume of fluid flowing through the pump	
Values	l/h	
Type of access to the bus	Reading	
Datapoint identification	9.025 (DPT_Value_Volume_Flow)	
Object number	340: Status inlet water temperature	
Description	This shows the inlet water temperature	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	341: Status outlet water temperature	
Description	This shows the outlet water temperature	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	342: Status buffer tank water temperature	
Description	This shows the temperature of the domestic hot water (DHW)	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	343: Status solar water temperature	
Description	This shows the water temperature of the solar panels	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	344: Status pool water temperature	
Description	This shows the pool water temperature	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	345: Status compressor discharge temperature	
Description	This shows the compressor discharge temperature	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	346: Status indoor piping temperature	
Description	This shows the temperature of the indoor unit's gas piping	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	347: Status outdoor piping temperature	
Description	This shows the temperature of the outdoor unit's gas piping	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	348: Status evaporation outlet temperature	
Description	This shows the evaporation outlet temperature of the outdoor unit	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	349: Status IPM temperature	
Description	This shows the PHE water supply temperature	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	350: Status high pressure	
Description	This shows the condensation pressure value	
Values	Pa	
Type of access to the bus	Reading	
Datapoint identification	14.058 (DPT_Value_Pressure)	
Object number	351: Status low pressure	
Description	This shows the evaporation pressure value	
Values	Pa	
Type of access to the bus	Reading	
Datapoint identification	14.058 (DPT_Value_Pressure)	
Object number	352: Status outdoor unit current	
Description	This shows the compressor's consumption	
Values	A	
Type of access to the bus	Reading	
Datapoint identification	14.019 (DPT_Value_Electric_Current)	

Object number	353: Status compressor frequency	
Description	This shows the compressor frequency	
Values	Hz	
Type of access to the bus	Reading	
Datapoint identification	14.033 (DPT_Value_Frequency)	
Object number	354: Status indoor unit expansion valve	
Description	This shows the status of the indoor unit expansion valve	
Values	Pulses	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	355: Status outdoor unit expansion valve	
Description	This shows the status of the outdoor unit expansion valve	
Values	Pulses	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	356: Status 4 ways valve	
Description	This shows the position of the 4-way valve	
Values	Pulses	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	357: Status 3 ways valve	
Description	This shows the position of the 3-way valve	
Values	Pulses	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	358: Status 2 ways valve	
Description	This shows the position of the 2-way valve	
Values	Pulses	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	359: Status refrigerant temperature	
Description	<i>This shows the temperature of the indoor unit's refrigerant</i>	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	360: Status water flow	
Description	This shows the volume of water flowing through the circuit	
Values	l/h	
Type of access to the bus	Reading	
Datapoint identification	9.025 (DPT_Value_Volume_Flow)	
Object number	361: Status water pressure	
Description	This shows the circuit's pressure value	
Values	Pa	
Type of access to the bus	Reading	
Datapoint identification	14.058 (DPT_Value_Pressure)	

Object number 362: Status ambient temperature C2**Description** This shows the ambient temperature of circuit 2**Values** °C °F**Type of access to the bus** Reading**Datapoint identification** 9.001 (DPT_Value_Temp) 9.027 (DPT_Value_Temp_F)**Object number 363: Status outlet water temperature C2****Description** This shows the outlet water temperature of circuit 2**Values** °C °F**Type of access to the bus** Reading**Datapoint identification** 9.001 (DPT_Value_Temp) 9.027 (DPT_Value_Temp_F)**Object number 364: Status relative humidity****Description** This shows the % humidity in the room**Values** %**Type of access to the bus** Reading**Datapoint identification** 9.007 (DPT_Value_Humidity)

• Energy monitoring

Object number 365: Status total heating energy production**Description** This shows the total energy generated in heating mode**Values** kWh**Type of access to the bus** Reading**Datapoint identification** 13.013 (DPT_ActiveEnergy_kWh)**Object number 366: Status current heating energy production****Description** This shows the current energy generated in heating mode**Values** kW**Type of access to the bus** Reading**Datapoint identification** 9.024 (DPT_Power)**Object number 367: Status total cooling energy production****Description** This shows the total energy generated in cooling mode**Values** kWh**Type of access to the bus** Reading**Datapoint identification** 13.013 (DPT_ActiveEnergy_kWh)**Object number 368: Status current cooling energy production****Description** This shows the current energy generated in cooling mode**Values** kW**Type of access to the bus** Reading**Datapoint identification** 9.024 (DPT_Power)**Object number 369: Status total DHW energy production****Description** This shows the total energy generated in DHW mode**Values** kWh**Type of access to the bus** Reading**Datapoint identification** 13.013 (DPT_ActiveEnergy_kWh)**Object number 370: Status current DHW energy production****Description** This shows the current energy generated in DHW mode**Values** kW**Type of access to the bus** Reading**Datapoint identification** 9.024 (DPT_Power)

Object number	371: Status current photovoltaic energy production
Description	This shows the current photovoltaic energy generated
Values	kW
Type of access to the bus	Reading
Datapoint identification	9.024 (DPT_Power)
Object number	372: Status total energy produced
Description	This shows the total energy generated by the system
Values	kWh
Type of access to the bus	Reading
Datapoint identification	13.013 (DPT_ActiveEnergy_kWh)
Object number	373: Status heatpump total energy consumption
Description	This shows the total energy consumed by the heat pump
Values	kWh
Type of access to the bus	Reading
Datapoint identification	13.013 (DPT_ActiveEnergy_kWh)
Object number	374: Status heatpump current energy consumption
Description	This shows the current energy consumed by the heat pump
Values	kW
Type of access to the bus	Reading
Datapoint identification	9.024 (DPT_Power)
Object number	375: Status building current energy consumption
Description	This shows the total energy consumed by the system
Values	kW
Type of access to the bus	Reading
Datapoint identification	9.024 (DPT_Power)
Object number	376: Status electric heat resistor total energy consumption
Description	This shows the total energy consumed by the heating resistor
Values	kWh
Type of access to the bus	Reading
Datapoint identification	13.013 (DPT_ActiveEnergy_kWh)
Object number	377: Status DHW electric resistor total energy consumption
Description	This shows the total energy consumed by the DHW resistor
Values	kWh
Type of access to the bus	Reading
Datapoint identification	13.013 (DPT_ActiveEnergy_kWh)
Object number	378: Status heating compressor total energy consumption
Description	This shows the energy consumed by the compressor in heating mode
Values	kWh
Type of access to the bus	Reading
Datapoint identification	13.013 (DPT_ActiveEnergy_kWh)
Object number	379: Status cooling compressor total energy consumption
Description	This shows the energy consumed by the compressor in cooling mode
Values	kWh
Type of access to the bus	Reading
Datapoint identification	13.013 (DPT_ActiveEnergy_kWh)

Object number 380: Status DHW compressor total energy consumption**Description** This shows the energy consumed by the compressor in DHW mode**Values** kWh**Type of access to the bus** Reading**Datapoint identification** 13.013 (DPT_ActiveEnergy_kWh)**Object number 381: Status total energy consumption****Description** This shows the total energy consumed by the system**Values** kWh**Type of access to the bus** Reading**Datapoint identification** 13.013 (DPT_ActiveEnergy_kWh)

- Enable the use of manufacturer ID selection objects

Object number 384: Control manufacturer ID**Description** This allows you to select the ID of the indoor unit's manufacturer**Values** 2 byte unsigned value**Type of access to the bus** Write**Datapoint identification** 7.001 (DPT_Value_2_Ucount)**Object number 387: Status manufacturer ID****Description** This shows the ID of the indoor unit's manufacturer**Values** 2 byte unsigned value**Type of access to the bus** Reading**Datapoint identification** 7.001 (DPT_Value_2_Ucount)

- Enable use of remote control lock objects. If you select Yes, it allows you to select the unit's parameters that you want to lock.

- ◇ Lock tank On/Off changes
- ◇ Lock mode changes
- ◇ Lock tank set point temperature changes

Object number 382: Control lock KNX control objects**Description** This allows you to lock control of KNX communication objects**Values** 0 → Unlocked 1 → Locked**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 385: Status KNX control objects lock****Description** This shows whether control of KNX communication objects has been locked**Values** 0 → Unlocked 1 → Locked**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 383: Control remote controller lock****Description** This allows you to lock control from the indoor unit's controller**Values** 0 → Unlocked 1 → Locked**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 386: Status remote controller lock****Description** This shows whether the indoor unit's controller has been locked**Values** 0 → Unlocked 1 → Locked**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)

Mode configuration

- Enable “Mode cool/heat” objects

Object number	157: Control operation mode Cool/Heat ATW HP	
Description	This allows you to select the air to water unit’s operation mode (cooling or heating)	
Values	0 → Cool	1 → Heat
Type of access to the bus	Write	
Datapoint identification	1.100 (DPT_Heat/Cool)	

Object number	192: Status operation mode Cool/Heat - ATW HP	
Description	This shows the operation mode selected for the air to water unit	
Values	0 → Cool	1 → Heat
Type of access to the bus	Reading	
Datapoint identification	1.100 (DPT_Heat/Cool)	

- Enable PID-Compat scaling mode objects

Object number	158: Control operation mode Cool + On - ATW HP	
Description	This allows you to switch the air to water unit on or off, with the selected operation mode being cooling	
Values	0 % → Off	1 ... 100 % → On + Cool
Type of access to the bus	Write	
Datapoint identification	5.001 (DPT_Scaling)	

Object number	159: Control operation mode Heat + On - ATW HP	
Description	This allows you to switch the air to water unit on or off, with the selected operation mode being heating	
Values	0 % → Off	1 ... 100 % → On + Heat
Type of access to the bus	Write	
Datapoint identification	5.001 (DPT_Scaling)	

- Enable use of bit-type mode objects

Object number	160: Control operation mode Auto - ATW HP	
Description	This allows you to select auto mode as the air to water unit’s operation mode	
Values	1 → Auto	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number	193: Status operation mode Auto - ATW HP	
Description	This shows that the operation mode currently selected for the air to water unit is auto mode	
Values	1 → Auto	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	

Object number	161: Control operation mode Heat - ATW HP	
Description	This allows you to select heating mode as the air to water unit’s operation mode	
Values	1 → Heat	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number	194: Status operation mode Heat - ATW HP	
Description	This shows that the operation mode currently selected for the air to water unit is heating mode	
Values	1 → Heat	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	

Object number 162: Control operation mode Cool - ATW HP**Description** This allows you to select cooling mode as the air to water unit's operation mode**Values** 1 → Cool**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 195: Status operation mode Cool - ATW HP****Description** This shows that the operation mode currently selected for the air to water unit is cooling mode**Values** 1 → Cool**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)

- Enable use of +/- object for mode

Select the DPT that you want to use: DPT 1.007 (Step) or DPT 1.008 (Up/Down).

Object number 163: Control operation mode +/- - ATW HP**Description** This allows you to change the air to water unit's operation mode

Values	0 → Decrease	0 → Up
	1 → Increase	1 → Down

Type of access to the bus Write**Datapoint identification** 1.007 (DPT_Step) 1.008 (DPT_UpDown)

- Enable use of text object for mode

Object number 196: Status operation mode text - ATW HP**Description** This shows the air to water unit's operation mode**Values** ASCII String**Type of access to the bus** Reading**Datapoint identification** 16.001 (DPT_String_8859_1)

Temperature configuration - Circuit 1

The available parameters will depend on how the circuit has been configured (outlet control or ambient control). If the circuit is configured as curve control, this section will be disabled.

- **Outlet control**

- ◇ Periodic sending of "Status_Setpoint_C1" (in seconds, 0 = no periodic sending)

Indicate how often you want the set point temperature status to be sent to the air to water unit (in seconds).

- ◇ Enable use of +/- object for set point

Select the DPT that you want to use: DPT 1.007 (Step) or DPT 1.008 (Up/Down).

Object number	165: Control set point outlet water temperature C1 +/- - ATW HP	
Description	This allows you to raise or lower the outlet water set point temperature of the air to water unit in increments of 1 °C/°F for circuit 1	
Values	0 → Decrease 1 → Increase	0 → Up 1 → Down
Type of access to the bus	Write	

Datapoint identification	1.007 (DPT_Step)	1.008 (DPT_UpDown)
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- ◇ Enable use of "Status_limits" object for set point

Object number	206: Status Auto mode maximum C1 outlet water set point limitation	
Description	This shows the upper outlet water set point temperature limit in auto mode for circuit 1	
Values	°C	°F

Type of access to the bus	Reading	
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Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
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Object number	207: Status Auto mode minimum C1 outlet water set point limitation	
Description	This shows the lower outlet water set point temperature limit in auto mode for circuit 1	
Values	°C	°F

Type of access to the bus	Reading	
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Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
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Object number	208: Status Cool mode maximum C1 outlet water set point limitation	
Description	This shows the upper outlet water set point temperature limit in cooling mode for circuit 1	
Values	°C	°F

Type of access to the bus	Reading	
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Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
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Object number	209: Status Cool mode minimum C1 outlet water set point limitation	
Description	This shows the lower outlet water set point temperature limit in cooling mode for circuit 1	
Values	°C	°F

Type of access to the bus	Reading	
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Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
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Object number	210: Status Heat mode maximum C1 outlet water set point limitation	
Description	This shows the upper outlet water set point temperature limit in heating mode for circuit 1	
Values	°C	°F

Type of access to the bus	Reading	
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Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
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Object number	211: Status Heat mode minimum C1 outlet water set point limitation	
Description	This shows the lower outlet water set point temperature limit in heating mode for circuit 1	
Values	°C	°F

Type of access to the bus	Reading	
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Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
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- **Ambient control**

- ◇ Periodic sending of "Status_Setpoint_C1" (in seconds, 0 = no periodic sending)

Indicate how often you want the set point temperature status to be sent to the air to water unit (in seconds).

- ◇ Enable use of +/- object for set point

Select the DPT that you want to use: DPT 1.007 (Step) or DPT 1.008 (Up/Down).

Object number	174: Control set point ambient temperature C1 +/- - ATW HP	
Description	This allows you to raise or lower the ambient set point temperature of the air to water unit in increments of 1 °C/°F for circuit 1	
Values	0 → Decrease 1 → Increase	0 → Up 1 → Down
Type of access to the bus	Write	
Datapoint identification	1.007 (DPT_Step)	1.008 (DPT_UpDown)

- ◇ Enable limitation on control set point

Select the minimum and maximum set point temperature that can be set for the air to water unit (in increments of 1 °C/°F).

Object number	175: Control set point ambient temperature C1 limitation	
Description	This allows you to enable the function to limit the ambient set point temperature of the air to water unit for circuit 1	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	

Object number	203: Status set point ambient temperature C1 limitation	
Description	This shows whether the function to limit the ambient set point temperature set for the air to water unit is enabled for circuit 1	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	

Object number	222: Status Auto mode set point ambient temperature C1 maximum limitation	
Description	This shows the upper ambient set point temperature limit in auto mode for circuit 1	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	223: Status Auto mode set point ambient temperature C1 minimum limitation	
Description	This shows the lower ambient set point temperature limit in auto mode for circuit 1	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	224: Status Cool mode set point ambient temperature C1 maximum limitation	
Description	This shows the upper ambient set point temperature limit in cooling mode for circuit 1	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	225: Status Cool mode set point ambient temperature C1 minimum limitation	
Description	This shows the lower ambient set point temperature limit in cooling mode for circuit 1	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number 226: Status Heat mode set point ambient temperature C1 maximum limitation

Description This shows the upper ambient set point temperature limit in heating mode for circuit 1

Values °C °F

Type of access to the bus Reading

Datapoint identification 9.001 (DPT_Value_Temp) 9.027 (DPT_Value_Temp_F)

Object number 227: Status Heat mode set point ambient temperature C1 minimum limitation

Description This shows the lower ambient set point temperature limit in heating mode for circuit 1

Values °C °F

Type of access to the bus Reading

Datapoint identification 9.001 (DPT_Value_Temp) 9.027 (DPT_Value_Temp_F)

Temperature configuration - Circuit 2

The available parameters will depend on how the circuit has been configured (outlet control or ambient control). If the circuit is configured as curve control, this section will be disabled.

- **Outlet control**

- ◇ Periodic sending of "Status_Setpoint_C2" (in seconds, 0 = no periodic sending)

Indicate how often you want the set point temperature status to be sent to the air to water unit (in seconds).

- ◇ Enable use of +/- object for set point

Select the DPT that you want to use: DPT 1.007 (Step) or DPT 1.008 (Up/Down).

Object number	167: Control set point outlet water temperature C2 +/- - ATW HP	
Description	This allows you to raise or lower the outlet water set point temperature of the air to water unit in increments of 1 °C/°F for circuit 2	
Values	0 → Decrease 1 → Increase	0 → Up 1 → Down
Type of access to the bus	Write	
Datapoint identification	1.007 (DPT_Step)	1.008 (DPT_UpDown)
◇ Enable use of "Status_limits" object for set point		
Object number	212: Status Auto mode maximum C2 outlet water set point limitation	
Description	This shows the upper outlet water set point temperature limit in auto mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	213: Status Auto mode minimum C2 outlet water set point limitation	
Description	This shows the lower outlet water set point temperature limit in auto mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	214: Status Cool mode maximum C2 outlet water set point limitation	
Description	This shows the upper outlet water set point temperature limit in cooling mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	215: Status Cool mode minimum C2 outlet water set point limitation	
Description	This shows the lower outlet water set point temperature limit in cooling mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	216: Status Heat mode maximum C2 outlet water set point limitation	
Description	This shows the upper outlet water set point temperature limit in heating mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)
Object number	217: Status Heat mode minimum C2 outlet water set point limitation	
Description	This shows the lower outlet water set point temperature limit in heating mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

- **Ambient control**

- ◇ Periodic sending of "Status_Setpoint_C2" (in seconds, 0 = no periodic sending)

Indicate how often you want the set point temperature status to be sent to the air to water unit (in seconds).

- ◇ Enable use of +/- object for set point

Select the DPT that you want to use: DPT 1.007 (Step) or DPT 1.008 (Up/Down).

Object number	177: Control set point ambient temperature C2 +/- - ATW HP	
Description	This allows you to raise or lower the ambient set point temperature of the air to water unit in increments of 1 °C/°F for circuit 2	
Values	0 → Decrease 1 → Increase	0 → Up 1 → Down
Type of access to the bus	Write	
Datapoint identification	1.007 (DPT_Step)	1.008 (DPT_UpDown)

- ◇ Enable limitation on control set point

Select the minimum and maximum set point temperature that can be set for the air to water unit (in increments of 1 °C/°F).

Object number	178: Control set point ambient temperature C2 limitation	
Description	This allows you to enable the function to limit the ambient set point temperature of the air to water unit for circuit 2	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	

Object number	205: Status set point ambient temperature C2 limitation	
Description	This shows whether the function to limit the ambient set point temperature set for the air to water unit is enabled for circuit 2	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	

Object number	228: Status Auto mode set point ambient temperature C2 maximum limitation	
Description	This shows the upper ambient set point temperature limit in auto mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	229: Status Auto mode set point ambient temperature C2 minimum limitation	
Description	This shows the lower ambient set point temperature limit in auto mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	230: Status Cool mode set point ambient temperature C2 maximum limitation	
Description	This shows the upper ambient set point temperature limit in cooling mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	231: Status Cool mode set point ambient temperature C2 minimum limitation	
Description	This shows the lower ambient set point temperature limit in cooling mode for circuit 2	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number 232: Status Heat mode set point ambient temperature C2 maximum limitation

Description This shows the upper ambient set point temperature limit in heating mode for circuit 2

Values °C °F

Type of access to the bus Reading

Datapoint identification 9.001 (DPT_Value_Temp) 9.027 (DPT_Value_Temp_F)

Object number 233: Status Heat mode set point ambient temperature C2 minimum limitation

Description This shows the lower ambient set point temperature limit in heating mode for circuit 2

Values °C °F

Type of access to the bus Reading

Datapoint identification 9.001 (DPT_Value_Temp) 9.027 (DPT_Value_Temp_F)

Temperature configuration - DHW

- ◆ Periodic sending of "Status_Setpoint_DHW" (in seconds, 0 = no periodic sending)

Indicate how often you want the set point temperature status to be sent to the air to water unit (in seconds).

- ◆ Enable use of +/- object for set point

Select the DPT that you want to use: DPT 1.007 (Step) or DPT 1.008 (Up/Down).

Object number 169: Control set point temperature DHW +/- - ATW HP

Description	This allows you to raise or lower the DHW set point temperature in increments of 1 °C/°F	
Values	0 → Decrease 1 → Increase	0 → Up 1 → Down
Type of access to the bus	Write	
Datapoint identification	1.007 (DPT_Step)	1.008 (DPT_UpDown)

- ◆ Enable limitation on control set point

Select the maximum set point temperature that can be set for DHW (in increments of 1 °C/°F).

Object number 170: Control set point temperature limitation DHW

Description	This allows you to enable the function to limit the set point temperature set for DHW	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	

Object number 200: Status set point temperature limitation DHW

Description	This shows whether the function to limit the set point temperature set for DHW is enabled	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	

Object number 218: Status DHW set point temperature maximum limitation

Description	This shows the upper set point temperature limit for DHW	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number 219: Status DHW set point temperature minimum limitation

Description	This shows the lower set point temperature limit for DHW	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Temperature configuration - Pool

- ◆ Periodic sending of "Status_Setpoint_Pool" (in seconds, 0 = no periodic sending)

Indicate how often you want the set point temperature status to be sent to the air to water unit (in seconds).

- ◆ Enable use of +/- object for set point

Select the DPT that you want to use: DPT 1.007 (Step) or DPT 1.008 (Up/Down).

Object number	172: Control set point temperature pool +/- - ATW HP	
Description	This allows you to raise or lower the pool's set point temperature in increments of 1 °C/°F	
Values	0 → Decrease 1 → Increase	0 → Up 1 → Down
Type of access to the bus	Write	
Datapoint identification	1.007 (DPT_Step)	1.008 (DPT_UpDown)

- ◆ Enable use of "Status_limits" object for set point

Select the minimum and maximum set point temperature that can be set for the pool (in increments of 1 °C/°F).

Object number	220: Status pool set point temperature maximum limitation	
Description	This shows the upper set point temperature limit for the pool	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Object number	221: Status pool set point temperature minimum limitation	
Description	This shows the lower set point temperature limit for the pool	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

Timeouts configuration

- Enable use of open window. If you select Yes, objects 388 and 416 will be enabled.
 - ◇ AC Off timeout (hh:mm:ss). Select the time after which the air to water unit will turn off after detecting that the window is open.
 - ◇ Action on closing window.
 - » Do not reload the last On/Off status. The air to water unit keep off when it detects that the window has been closed.
 - » Reload the last On/Off status. Upon detecting that the window has been closed, the air to water unit will return to its status from before the window was opened.
 - ◇ AC On timeout (hh:mm:ss). The “Action on closing window” parameter must be set to “Reload the last On/Off status”. Select the time after which the air to water unit will turn on after detecting that the window is closed.
 - ◇ Allow On/Off when window contact is active.
 - » No. This does not allow the air to water unit to be turned on while the window is open.
 - » Yes. This allows you to change the air to water unit’s status while the window is open.
 - ◇ Circuit on which acts. Select the circuit to be actuated: circuit 1, circuit 2 or both circuits.

Object number 388: Control window contact

Description	This allows you to enable the use of the window contact	
Values	0 → Open	1 → Closed
Type of access to the bus	Write	
Datapoint identification	1.009 (DPT_OpenClose)	

Object number 416: Status window contact

Description	This shows the window contact’s status	
Values	0 → Open	1 → Closed
Type of access to the bus	Reading	
Datapoint identification	1.009 (DPT_OpenClose)	

- Enable use of timer function to switch off the unit. If you select Yes, objects 389 and 417 will be enabled.
 - ◇ AC switch-off timeout (hh:mm:ss). Select the time after which the air to water unit will turn off after detecting that this function has been activated.
 - ◇ Allow On/Off operation when timeout is elapsed.
 - » No. This does not allow the air to water unit to be turned on while the function is activated.
 - » Yes. This allows you to change the air to water unit’s status while the function is activated.
 - ◇ Circuit on which acts. Select the circuit to be actuated: circuit 1, circuit 2 or both circuits

Object number 389: Control switch Off timeout

Description	This allows you to activate a timer to switch off the indoor unit	
Values	0 → Stop	1 → Start
Type of access to the bus	Write	
Datapoint identification	1.010 (DPT_Start)	

Object number 417: Status switch Off timeout

Description	This shows whether the timer has been activated	
Values	0 → Stop	1 → Start
Type of access to the bus	Reading	
Datapoint identification	1.010 (DPT_Start)	

- Enable use of unoccupied timer function. If you select Yes, objects 390 and 418 will be enabled.
 - ◇ Timeout to apply actions (hh:mm:ss). Select the time after which the air to water unit will turn off after detecting that the room is unoccupied.
 - ◇ Action after timeout elapsed.
 - » Switch off. The air to water unit is switched off after the timeout has elapsed.
 - » Unoccupied mode. The air to water unit switches to unoccupied mode after the timeout has elapsed.
 - ◇ Timeout for unoccupied mode activation (hh:mm:ss). The "Action after timeout elapsed" parameter must be set to "Unoccupied mode". If the air to water unit enters unoccupied mode, a timeout is started to decrease (if in heating mode) / increase (if in cooling/ventilation mode) the temperature by 1 °C/°F. This action is carried out 3 times, after which the unit is switched off.
 - ◇ Allow On/Off operation when not occupied.
 - » No. This does not allow the air to water unit to be turned on while the room is unoccupied.
 - » Yes. This allows you to change the air to water unit's status while the room is unoccupied.
 - ◇ Circuit on which acts. Select the circuit to be actuated: circuit 1, circuit 2 or both circuits.

Object number 390: Control occupancy sensor

Description	This allows you to activate the unoccupied function in order to switch the indoor unit to unoccupied mode	
Values	0 → Not occupied	1 → Occupied
Type of access to the bus	Write	
Datapoint identification	1.018 (DPT_Occupancy)	

Object number 418: Status occupancy sensor

Description	This shows whether the unoccupied function has been activated	
Values	0 → Not occupied	1 → Occupied
Type of access to the bus	Reading	
Datapoint identification	1.018 (DPT_Occupancy)	

- Enable use of Sleep function. If you select Yes, objects 391 and 419 will be enabled.
 - ◇ Sleep function switch-off timeout (hh:mm:ss). Select the time after which the air to water unit will turn off after detecting that this function has been activated.
 - ◇ Circuit on which acts. Select the circuit to be actuated: circuit 1, circuit 2 or both circuits.

Object number 391: Control Sleep timeout

Description	This allows you to activate a timer to switch off the indoor unit	
Values	0 → Stop	1 → Start
Type of access to the bus	Write	
Datapoint identification	1.010 (DPT_Start)	

Object number 419: Status Sleep timeout

Description	This shows whether the timer has been activated	
Values	0 → Stop	1 → Start
Type of access to the bus	Reading	
Datapoint identification	1.010 (DPT_Start)	

Scenes configuration

- Enable use of scenes

If you select Yes, objects 392 and 420 will be enabled, and the following fields will appear:

- ◇ Enable use of bit objects for saving scenes
- ◇ Enable use of bit objects for scene execution

Object number	392: Control save/execute scene	
Description	This allows you to save or execute scenes. Changing the value of the object will also change the function and scene number	
Values	(0)0 to (0)63* → Execute scene ID	(1)28 to (1)91* → Save scene ID
Type of access to the bus	Write	
Datapoint identification	18.001 (DPT_SceneControl)	

* (0) and (1) are the default values set in ETS to execute or save scenes, respectively. Therefore, you only need to enter the values that follow the brackets, i.e., to execute scenes you must select a value between 0 and 63, to save scenes enter a value between 28 and 91.

Object number	420: Status current scene	
Description	This shows the current scene being executed	
Values	0 to 63 → Scene ID	
Type of access to the bus	Reading	
Datapoint identification	17.001 (DPT_SceneNumber)	

- Enable use of bit objects for saving scenes

Object number	393: Control save scene 1	
Description	This saves the indoor unit's settings as scene 1	
Values	1 → Save scene 1	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number	394: Control save scene 2	
Description	This saves the indoor unit's settings as scene 2	
Values	1 → Save scene 2	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number	395: Control save scene 3	
Description	This saves the indoor unit's settings as scene 3	
Values	1 → Save scene 3	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number	396: Control save scene 4	
Description	This saves the indoor unit's settings as scene 4	
Values	1 → Save scene 4	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number	397: Control save scene 5	
Description	This saves the indoor unit's settings as scene 5	
Values	1 → Save scene 5	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number 398: Control save scene 6**Description** This saves the indoor unit's settings as scene 6**Values** 1 → Save scene 6**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 399: Control save scene 7****Description** This saves the indoor unit's settings as scene 7**Values** 1 → Save scene 7**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 400: Control save scene 8****Description** This saves the indoor unit's settings as scene 8**Values** 1 → Save scene 8**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 401: Control save scene 9****Description** This saves the indoor unit's settings as scene 9**Values** 1 → Save scene 9**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 402: Control save scene 10****Description** This saves the indoor unit's settings as scene 10**Values** 1 → Save scene 10**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)

- Enable use of bit objects for scene execution

Object number 403: Control execute scene 1**Description** This executes scene 1**Values** 1 → Execute scene 1**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 404: Control execute scene 2****Description** This executes scene 2**Values** 1 → Execute scene 2**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 405: Control execute scene 3****Description** This executes scene 3**Values** 1 → Execute scene 3**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 406: Control execute scene 4****Description** This executes scene 4**Values** 1 → Execute scene 4**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)

Object number	407: Control execute scene 5
Description	This executes scene 5
Values	1→ Execute scene 5
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	408: Control execute scene 6
Description	This executes scene 6
Values	1→ Execute scene 6
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	409: Control execute scene 7
Description	This executes scene 7
Values	1→ Execute scene 7
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	410: Control execute scene 8
Description	This executes scene 8
Values	1→ Execute scene 8
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	411: Control execute scene 9
Description	This executes scene 9
Values	1→ Execute scene 9
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	412: Control execute scene 10
Description	This executes scene 10
Values	1→ Execute scene 10
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)

- Scene 1 ... 10

Select the scene ID (values available from 0 to 63). If you wish to configure each scene from ETS, activate the "Scene preset" parameter and set the desired parameter values according to the "Scene selection" being configured.

- ◇ Water scene / Ambient scene

- » On-Off C1: Select if you want to switch circuit 1 of the air to water unit on/off, or if you do not want to carry out any action.
- » On-Off C2: Select if you want to switch circuit 2 of the air to water unit on/off, or if you do not want to carry out any action.
- » Mode: Select if you want to change the air to water unit's operation mode, or if you do not want to carry out any action.
- » Set point C1: Select if you want to change the set point temperature of circuit 1 of the air to water unit, or if you do not want to carry out any action.
- » Set point C2: Select if you want to change the set point temperature of circuit 2 of the air to water unit, or if you do not want to carry out any action.

- ◇ Tank scene

- » On-Off tank: Select if you want to switch DHW on/off, or if you do not want to carry out any action.
- » On-Off Powerful: Select if you want to turn the Powerful function on/off, or if you do not want to carry out any action.
- » Set point DHW: Select if you want to change the set point temperature of DHW, or if you do not want to carry out any action.

- ◇ Pool scene

- » On-Off pool: Select if you want to turn the pool on/off, or if you do not want to carry out any action.
- » Set point pool: Select if you want to change the pool's set point temperature, or if you do not want to carry out any action.

Inputs configuration

Enable the use of the Aidoo KNX inputs:

- Enable use of input 1: communication object 421.
- Enable use of input 2: communication object 423.
- Enable use of input 3: communication object 425.

The objects will behave differently depending on the configuration of each input.

Parameters available for configuring each input:

- ◇ Disabling function. Select whether or not you want to enable the object that allows the input to be disabled if necessary (communication objects 413, 414 and 415). If yes, select whether you want to use Datapoint DPT 1.002 (0 = False) or DPT 1.003 (0 = Disable).
 - ◇ Contact type. Sets the contact logic as "Normally open" or "Normally closed".
 - ◇ Debounce time. Select the debounce time (in milliseconds) required for the system to recognize there has been a change in the contact.
 - ◇ Function. Select the input function.
- Disabling function

Object number	413: Control disable input 1	
Description	This allows the use of input 1 to be disabled	
Values	0 → False 1 → True	0 → Disable 1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	1.003 (DPT_Enable)
Object number	414: Control disable input 2	
Description	This allows the use of input 2 to be disabled	
Values	0 → False 1 → True	0 → Disable 1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	1.003 (DPT_Enable)
Object number	415: Control disable input 3	
Description	This allows the use of input 3 to be disabled	
Values	0 → False 1 → True	0 → Disable 1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	1.003 (DPT_Enable)

- Function

- ◇ Switching

- » Send telegram after bus recovery. Select the action to be performed on this digital input after bus recovery (e.g., after a power failure): no action, on, off or current status.
 - > Sending delay after bus recovery. If an action is selected, indicate the time delay for sending the telegram (in seconds).
- » Value on raising edge (contact activated). Select the action to be sent to the associated communication object, if it produces a rising edge (activated input): no action, on, off or toggle.
- » Value on falling edge (contact deactivated). Select the action to be sent to the associated communication object, if it produces a falling edge (deactivated input): no action, on, off or toggle.
- » Cyclical sending. Select if you want cyclical sending to occur depending on the status of the digital input: never, always, when output value is "Off" or When output value is "On".
 - > Period for cyclical sending. If cyclical sending is selected, indicate the time period (in seconds) for this cycle.

◆ Dimming

- » Send telegram after bus recovery. Select the action to be performed on this digital input after bus recovery (e.g., after a power failure): no action, on, off.
 - > Sending delay after bus recovery. If an action is selected, indicate the time delay for sending the telegram (in seconds).
- » Mode for short/long operation. Select the action for a short operation to be sent on a falling edge (deactivated input): off (decrease), on (increase) or toggle. A press and hold will result in either an increasing step or a decreasing step.
 - > Increasing step. Select the percentage of the increasing step that will be sent for a long operation.
 - > Decreasing step. Select the percentage of the decreasing step that will be sent for a long operation.
 - > Short/long operation limit. Defines the time that must elapse for the object to interpret that a long operation has occurred (in milliseconds).
 - > Cyclical sending period in long operation (0 – no cyclical sending). Defines the time (in milliseconds) during which the long operation must be executed.

◆ Shutter/Blind

- » Send telegram after bus recovery. Select the action to be performed on this digital input after bus recovery (e.g., after a power failure): no action, move up or move down.
 - > Sending delay after bus recovery. If an action is selected, indicate the time delay for sending the telegram (in seconds).
- » Operation. Select the action to be sent on a rising edge (activated input): up, down or toggle.
- » Method. Select the operating method for the shutter/blind: Step-Move-Step or Move-Step.
 - > Step-Move-Step. On a rising edge (activated input), a step telegram will be sent and counter 1 will start (Short/long operation limit).
Note: No action will be taken if a falling edge (deactivated input) occurs during this time.
If the rising edge is maintained for longer than the time defined in counter 1, a move telegram will be sent and counter 2 will start (Vanes adjustment time). If a falling edge (deactivated input) occurs during the time specified in this second counter, a step telegram will be sent.
Note: No action will be taken if a falling edge (deactivated input) occurs after this time.
 - > Move-Step. On a rising edge (activated input), a move telegram will be sent and counter 2 will start (Vanes adjustment time). If a falling edge (deactivated input) occurs during this time, a stop telegram will be sent.
Note: No action will be taken if a falling edge (deactivated input) occurs after this time.
- » Short/long operation limit (counter 1). Defines the time that must elapse between a short operation and a long operation (in milliseconds).
- » Vanes adjustment time (counter 2). Defines the time that must elapse before adjusting the slats or moving the shutter/blind (in milliseconds).

◆ Value

- » Send telegram after bus recovery. Select if you want to send an action (fixed value) on this digital input after bus recovery (e.g., after a power failure) or if you do not want to send any action.
 - > Sending delay after bus recovery. If an action is selected, indicate the time delay for sending this telegram (in seconds).
- » DPT to be sent. Select the type of DPT to be sent on activating the input:
 - > DPT 5.010 (1 byte unsigned value). Values: 0 ... 255
 - > DPT 7.001 (2 byte unsigned value). Values: 0 ... 65535
 - > DPT 8.001 (2 byte signed value). Values: -32767 ... 32767
 - > DPT 9.001 (temperature). Values: Temperature (°C)
 - > DPT 12.001 (4 byte unsigned value). Values: 0 ... 4294967295
- » Value on raising edge (when contact activated). Defines the value to be sent when the contact is activated.

◆ Scene (internal)

- » Scene when contact is activated. Select the scene that will be executed when the digital input is activated.

◆ Occupancy (internal). Switches to occupied mode when the digital input is activated.

◆ Window (internal). Activates the window contact timer when this digital input is activated.

- Input 1

421: Status 1			
Object number	Switching	Dimming On/Off	Blind step
Description	Shows the status of input 1		
Values	0 → Off 1 → On	0 → Off 1 → On	0 → Step up 1 → Step down
Type of access to the bus	Reading		
Datapoint identification	1.001 (DPT_Switch)	1.001 (DPT_Switch)	1.008 (DPT_UpDown)
422: Status 1			
Object number	Value	Dimming step	Blind move
Description	Shows the value generated according to the behavior defined for the input		
Values	1 byte unsigned value 2 byte unsigned value 2 byte signed value Temperature (°C) 4 byte unsigned value	Dimming step	0 → Up 1 → Down
Type of access to the bus	Reading		
Datapoint identification	5.010 (DPT_Value_1_Ucount) 7.001 (DPT_Value_2_Ucount) 8.001 (DPT_Value_2_Count) 9.001 (DPT_Value_Temp) 12.001 (DPT_Value_4_Ucount)	3.007 (DPT_Control_Dimm.)	1.008 (DPT_UpDown)

- Input 2

423: Status 2			
Object number	Switching	Dimming On/Off	Blind Step
Description	Shows the status of input 2		
Values	0 → Off 1 → On	0 → Off 1 → On	0 → Step up 1 → Step down
Type of access to the bus	Reading		
Datapoint identification	1.001 (DPT_Switch)	1.001 (DPT_Switch)	1.008 (DPT_UpDown)
424: Status 2			
Object number	Value	Dimming step	Blind move
Description	Shows the value generated according to the behavior defined for the input		
Values	1 byte unsigned value 2 byte unsigned value 2 byte signed value Temperature (°C) 4 byte unsigned value	Dimming step	0 → Up 1 → Down
Type of access to the bus	Reading		
Datapoint identification	5.010 (DPT_Value_1_Ucount) 7.001 (DPT_Value_2_Ucount) 8.001 (DPT_Value_2_Count) 9.001 (DPT_Value_Temp) 12.001 (DPT_Value_4_Ucount)	3.007 (DPT_Control_Dimm.)	1.008 (DPT_UpDown)

- Input 3

425: Status 3			
Object number	Switching	Dimming On/Off	Blind Step
Description	Shows the status of input 3		
Values	0 → Off 1 → On	0 → Off 1 → On	0 → Step up 1 → Step down
Type of access to the bus	Reading		
Datapoint identification	1.001 (DPT_Switch)	1.001 (DPT_Switch)	1.008 (DPT_UpDown)
426: Status 3			
Object number	Value	Dimming step	Blind move
Description	Shows the value generated according to the behavior defined for the input		
Values	1 byte unsigned value 2 byte unsigned value 2 byte signed value Temperature (°C) 4 byte unsigned value	Dimming step	0 → Up 1 → Down
Type of access to the bus	Reading		
Datapoint identification	5.010 (DPT_Value_1_Ucount) 7.001 (DPT_Value_2_Ucount) 8.001 (DPT_Value_2_Count) 9.001 (DPT_Value_Temp) 12.001 (DPT_Value_4_Ucount)	3.007 (DPT_Control_Dimm.)	1.008 (DPT_UpDown)



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