



EN

Integration manual

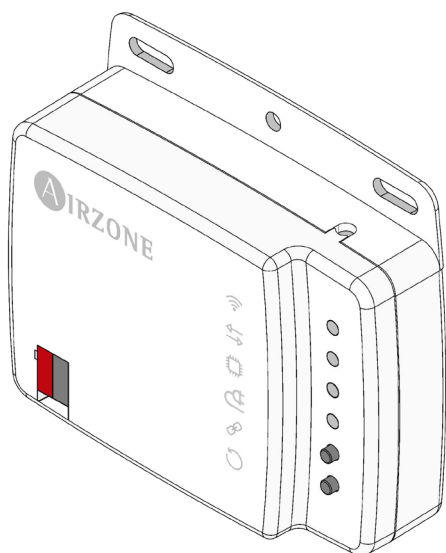
Aidoo KNX

Air-to-Water Heat Pump

[PAW-AZAW-KNX-1]

[AZAI6KNX2PN2]

Panasonic



AIRZONE

CONTENTS

WARNINGS AND ENVIRONMENTAL POLICY	3
> Warnings	3
> Environmental policy	3
GENERAL REQUIREMENTS	3
INTRODUCTION	4
ASSEMBLY	4
CONNECTION	4
CONFIGURATION	4
SELF-DIAGNOSIS	5
COMMUNICATION OBJECTS	6
> Default communication objects	6
> Configuration parameters	8
> General	8
> Mode configuration	14
> Temperature configuration - Circuit 1	16
> Temperature configuration - Circuit 2	19
> Temperature configuration - DHW	22
> Timeouts configuration	23
> Scenes configuration	25
> Inputs configuration	28
KNX PARAMETERS	32
> Aidoo KNX Panasonic Aquarea (PAW-AZAW-KNX-1 [AZAI6KNX2PN2])	32
ERROR CODES	39
> Aidoo KNX Panasonic Aquarea (PAW-AZAW-KNX-1 [AZAI6KNX2PN2])	39

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.

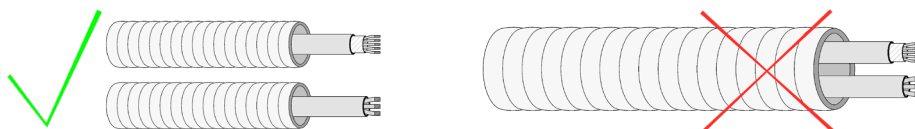
If you replace it with other equipment, you must return it to the distributor or take it to a specialized collection center.

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.



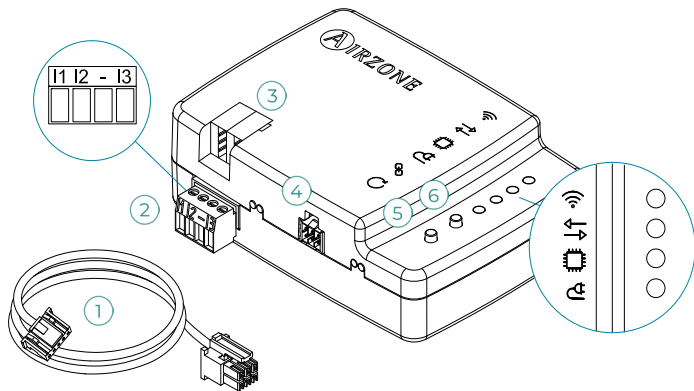
- Respect the connection polarity of each device. A wrong connection may seriously damage the product.

Introduction

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

Functionalities:

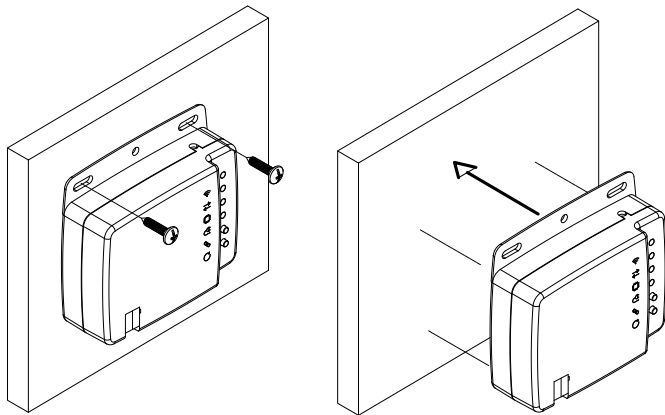
- Control of the parameters of the unit.
- KNX control.
- KNX standard data.
- 3 digital inputs.
- Easily configurable from ETS.
- Communication errors detection.



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

Assembly

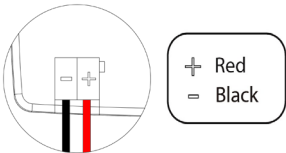
The device can be mounted using screws or double-sided adhesive tape (included with the product).



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.



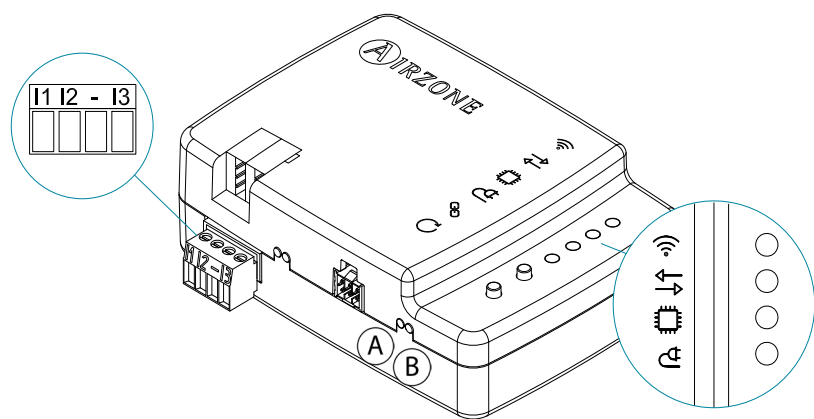
Configuration

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.

Self-diagnosis



LED	Meaning	Status	Color
	KNX programming mode	Steady	Red
	Microprocessor activity	Blinking	Green
	Power supply	Steady	Red
	Data transmission to the indoor unit	Blinking	Green
	Data reception from the indoor unit	Blinking	Red

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.

To view all the communication objects available on the Aidoo KNX device for Panasonic ATW units, please go to [KNX parameters for Panasonic](#) for more information.

DEFAULT COMMUNICATION OBJECTS

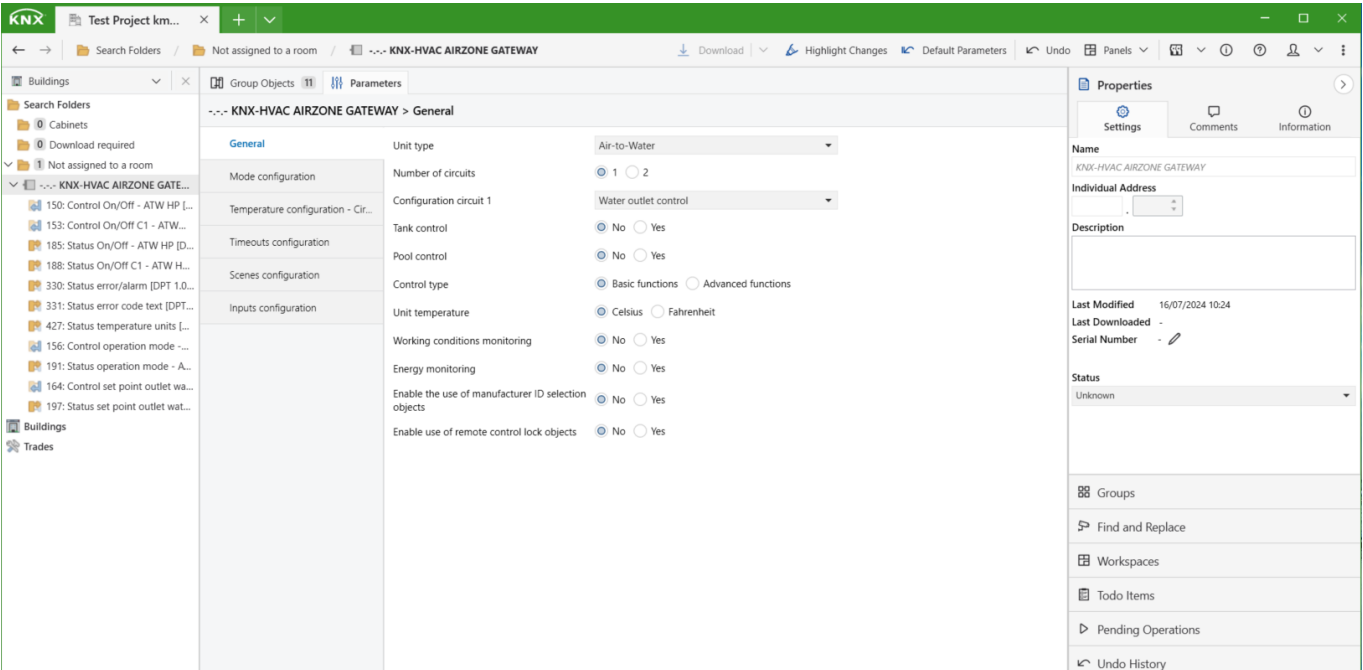
By selecting "Air-to-Water" as unit type, the default communication objects available in ETS for the Aidoo KNX device are included in "Basic functions" within the control type option. The default temperature unit is Celsius, the number of circuits available is 1 configured as outlet control.

Object number	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).

Note: In two-zone units, both circuits must have the same configuration.

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)

- Control type

Select "Advanced functions" to enable more control options.

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)	

- Working conditions monitoring

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	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	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	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)

- 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	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	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 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	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 1 → Increase
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)

- ◇ 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	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

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	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

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	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

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	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

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	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

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	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

- **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)

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
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
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
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

Object number	421: Status 1		
	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)

Object number	422: Status 1		
	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

Object number	423: Status 2		
	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)

Object number	424: Status 2		
	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)

KNX parameters

AIDOO KNX PANASONIC AQUAREA (PAW-AZAW-KNX-1 [AZAI6KNX2PN2])

Object number	Description	Values	Flags	Datapoint	
151	Control On/Off DHW	0 → Off	W	DPT_Switch	1.001
		1 → On			
152	Control powerful function	0 → Off	W	DPT_Switch	1.001
		1 → On			
153	Control On/Off C1	0 → Off	W	DPT_Switch	1.001
		1 → On			
154*	Control On/Off C2	0 → Off	W	DPT_Switch	1.001
		1 → On			
156	Control operation mode	0 → Auto	W	DPT_HVACContrMode	20.105
		1 → Heat			
		2 → Cool			
157	Control operation mode cool/heat	0 → Cool	W	DPT_Heat/Cool	1.100
		1 → Heat			
158	Control operation mode cool + On	0% → Off	W	DPT_Scaling	5.001
		1% - 100% → On + Cool			
159	Control operation mode heat + On	0% → Off	W	DPT_Scaling	5.001
		1% - 100% → On + Heat			
160	Control operation mode auto	1 → Auto	W	DPT_Bool	1.002
161	Control operation mode heat	1 → Heat	W	DPT_Bool	1.002
162	Control operation mode cool	1 → Cool	W	DPT_Bool	1.002
163	Control operation mode +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
164	Control set point outlet water temperature C1	°C	W	DPT_Value_Temp	9.001
		°F	W	DPT_Value_Temp_F	9.027
165	Control set point outlet water temperature C1 +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
166*	Control set point outlet water temperature C2	°C	W	DPT_Value_Temp	9.001
		°F	W	DPT_Value_Temp_F	9.027
167*	Control set point outlet water temperature C2 +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
168	Control set point temperature DHW	°C	W	DPT_Value_Temp	9.001
		°F	W	DPT_Value_Temp_F	9.027

*Objects only available for two-zone units.

Object number	Description	Values	Flags	Datapoint	
169	Control set point temperature DHW +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
170	Control set point temperature limitation DHW	0 → Disable	W	DPT_Switch	1.001
		1 → Enable			
173	Control set point ambient temperature C1	°C	W	DPT_Value_Temp	9.001
		°F	W	DPT_Value_Temp_F	9.027
174	Control set point ambient temperature C1 +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
175	Control set point ambient temperature C1 limitation	0 → Disable	W	DPT_Switch	1.001
		1 → Enable			
176*	Control set point ambient temperature C2	°C	W	DPT_Value_Temp	9.001
		°F	W	DPT_Value_Temp_F	9.027
177*	Control set point ambient temperature C2 +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
178*	Control set point ambient temperature C2 limitation	0 → Disable	W	DPT_Switch	1.001
		1 → Enable			
186	Status On/Off DHW	0 → Off	R	DPT_Switch	1.001
		1 → On			
187	Status powerful function	0 → Off	R	DPT_Switch	1.001
		1 → On			
188	Status On/Off C1	0 → Off	R	DPT_Switch	1.001
		1 → On			
189*	Status On/Off C2	0 → Off	R	DPT_Switch	1.001
		1 → On			
191	Status operation mode	0 → Auto	R	DPT_HVACContrMode	20.105
		1 → Heat			
		2 → Cool			
192	Status operation mode cool/heat	0 → Cool	R	DPT_Heat/Cool	1.100
		1 → Heat			
193	Status operation mode auto	1 → Auto	R	DPT_Bool	1.002
194	Status operation mode heat	1 → Heat	R	DPT_Bool	1.002
195	Status operation mode cool	1 → Cool	R	DPT_Bool	1.002
196	Status operation mode text	ASCII String	R	DPT_String_8859_1	16.001
197	Status set point outlet water temperature C1	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
198*	Status set point outlet water temperature C2	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027

*Objects only available for two-zone units.

Object number	Description	Values	Flags	Datapoint	
199	Status set point temperature DHW	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
200	Status set point temperature limitation DHW	0 → Disabled	R	DPT_Switch	1.001
		1 → Enabled			
202	Status set point ambient temperature C1	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
203	Status set point ambient temperature C1 limitation	0 → Disabled	R	DPT_Switch	1.001
		1 → Enabled			
204*	Status set point ambient temperature C2	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
205*	Status set point ambient temperature C2 limitation	0 → Disabled	R	DPT_Switch	1.001
		1 → Enabled			
206	Status auto mode maximum C1 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
207	Status auto mode minimum C1 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
208	Status cool mode maximum C1 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
209	Status cool mode minimum C1 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
210	Status heat mode maximum C1 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
211	Status heat mode minimum C1 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
212*	Status auto mode maximum C2 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
213*	Status auto mode minimum C2 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
214*	Status cool mode maximum C2 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
215*	Status cool mode minimum C2 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
216*	Status heat mode maximum C2 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
217*	Status heat mode minimum C2 outlet water set point limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
218	Status DHW set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
219	Status DHW set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
222	Status auto mode set point ambient temperature C1 maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
223	Status auto mode set point ambient temperature C1 minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027

*Objects only available for two-zone units.

Object number	Description	Values	Flags	Datapoint	
224	Status cool mode set point ambient temperature C1 maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
225	Status cool mode set point ambient temperature C1 minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
226	Status heat mode set point ambient temperature C1 maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
227	Status heat mode set point ambient temperature C1 minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
228*	Status auto mode set point ambient temperature C2 maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
229*	Status auto mode set point ambient temperature C2 minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
230*	Status cool mode set point ambient temperature C2 maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
231*	Status cool mode set point ambient temperature C2 minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
232*	Status heat mode set point ambient temperature C2 maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
233*	Status heat mode set point ambient temperature C2 minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
238	Status of the air to water working settings in water supply temperature mode C1	1 → Active	R	DPT_Bool	1.002
239*	Status of the air to water working settings in water supply temperature mode C2	1 → Active	R	DPT_Bool	1.002
240	Status of the air to water working settings in room temperature mode C1	1 → Active	R	DPT_Bool	1.002
241*	Status of the air to water working settings in room temperature mode C2	1 → Active	R	DPT_Bool	1.002
242	Status of the air to water working settings in temperature curve mode C1	1 → Active	R	DPT_Bool	1.002
243*	Status of the air to water working settings in temperature curve mode C2	1 → Active	R	DPT_Bool	1.002
330	Status error/alarm	0 → No alarm	R	DPT_Alarm	1.005
		1 → Alarm			
331	Status error code text	ASCII String	R	DPT_String_8859_1	16.001
333	Status internal probe temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
334	Status external probe temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
340	Status inlet water temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
341	Status outlet water temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027

*Objects only available for two-zone units.

Object number	Description	Values	Flags	Datapoint	
342	Status buffer tank water temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
351	Status low pressure	Pa	R	DPT_Value_Pressure	14.058
361**	Status water pressure	Pa	R	DPT_Value_Pressure	14.058
362*	Status ambient temperature C2	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
363*	Status outlet water temperature C2	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
365	Status total heating energy production	kWh	R	DPT_ActiveEnergy_kWh	13.013
366	Status current heating energy production	kW	R	DPT_Power	9.024
367	Status total cooling energy production	kWh	R	DPT_ActiveEnergy_kWh	13.013
368	Status current cooling energy production	kW	R	DPT_Power	9.024
369	Status total DHW energy production	kWh	R	DPT_ActiveEnergy_kWh	13.013
370	Status current DHW energy production	kW	R	DPT_Power	9.024
373	Status heatpump total energy consumption	kWh	R	DPT_ActiveEnergy_kWh	13.013
374	Status heatpump current energy consumption	kW	R	DPT_Power	9.024
381	Status total energy consumption	kWh	R	DPT_ActiveEnergy_kWh	13.013
382	Control lock KNX control objects	0 → Unlock	W	DPT_Bool	1.002
		1 → Lock			
385	Status KNX control objects lock	0 → Unlocked	R	DPT_Bool	1.002
		1 → Locked			
386	Status remote controller lock	0 → Unlocked	R	DPT_Bool	1.002
		1 → Locked			
388	Control window contact	0 → Open	W	DPT_OpenClose	1.009
		1 → Close			
389	Control switch Off timeout	0 → Stop	W	DPT_Start	1.010
		1 → Start			
390	Control occupancy sensor	0 → Not occupied	W	DPT_Occupancy	1.018
		1 → Occupied			
391	Control Sleep timeout	0 → Stop	W	DPT_Start	1.010
		1 → Start			
392	Control save/execute scene	(0)0 to (0)63 → Execute scene ID	W	DPT_SceneControl	18.001
		(1)28 to (1)91 → Save scene ID			
393	Control save scene 1	1 → Save scene 1	W	DPT_Bool	1.002
394	Control save scene 2	1 → Save scene 2	W	DPT_Bool	1.002
395	Control save scene 3	1 → Save scene 3	W	DPT_Bool	1.002
396	Control save scene 4	1 → Save scene 4	W	DPT_Bool	1.002
397	Control save scene 5	1 → Save scene 5	W	DPT_Bool	1.002
398	Control save scene 6	1 → Save scene 6	W	DPT_Bool	1.002

*Objects only available for two-zone units.

**Object only available for K series models or onwards.

Object number	Description	Values	Flags	Datapoint	
399	Control save scene 7	1 → Save scene 7	W	DPT_Bool	1.002
400	Control save scene 8	1 → Save scene 8	W	DPT_Bool	1.002
401	Control save scene 9	1 → Save scene 9	W	DPT_Bool	1.002
402	Control save scene 10	1 → Save scene 10	W	DPT_Bool	1.002
403	Control execute scene 1	1 → Execute scene 1	W	DPT_Bool	1.002
404	Control execute scene 2	1 → Execute scene 2	W	DPT_Bool	1.002
405	Control execute scene 3	1 → Execute scene 3	W	DPT_Bool	1.002
406	Control execute scene 4	1 → Execute scene 4	W	DPT_Bool	1.002
407	Control execute scene 5	1 → Execute scene 5	W	DPT_Bool	1.002
408	Control execute scene 6	1 → Execute scene 6	W	DPT_Bool	1.002
409	Control execute scene 7	1 → Execute scene 7	W	DPT_Bool	1.002
410	Control execute scene 8	1 → Execute scene 8	W	DPT_Bool	1.002
411	Control execute scene 9	1 → Execute scene 9	W	DPT_Bool	1.002
412	Control execute scene 10	1 → Execute scene 10	W	DPT_Bool	1.002
413	Control disable input 1	0 → False	W	DPT_Bool	1.002
		1 → True			
		0 → Disable	W	DPT_Enable	1.003
		1 → Enable			
414	Control disable input 2	0 → False	W	DPT_Bool	1.002
		1 → True			
		0 → Disable	W	DPT_Enable	1.003
		1 → Enable			
415	Control disable input 3	0 → False	W	DPT_Bool	1.002
		1 → True			
		0 → Disable	W	DPT_Enable	1.003
		1 → Enable			
416	Status window contact	0 → Opened	R	DPT_OpenClose	1.009
		1 → Closed			
417	Status switch Off timeout	0 → Stopped	R	DPT_Start	1.010
		1 → Started			
418	Status occupancy sensor	0 → Not occupied	R	DPT_Occupancy	1.018
		1 → Occupied			
419	Status Sleep timeout	0 → Stopped	R	DPT_Start	1.010
		1 → Started			
420	Status current scene	0 to 63 → Scene ID	R	DPT_SceneNumber	17.001
421	Status 1 - Switching	0 → Off	R	DPT_Switch	1.001
		1 → On			
	Status 1 - Dimming On/Off	0 → Off	R	DPT_Switch	1.001
		1 → On			
	Status 1 - Blind step	0 → Step up	R	DPT_Step	1.007
		1 → Step down			

Object number	Description	Values	Flags	Datapoint	
422	Status 1 - Value	1 byte unsigned value	R	DPT_Value_1_Ucount	5.010
		2 byte unsigned value	R	DPT_Valve _2_Ucount	7.001
		2 byte signed value	R	DPT_Value_2_Count	8.001
		Temperature (°C)	R	DPT_Value_Temp	9.001
		4 byte unsigned value	R	DPT_Value_4_Ucount	12.001
	Status 1 - Dimming step	Dimming step	R	DPT_Control_Dimming	3.007
	Status 1 - Blind move	0 → Up	R	DPT_UpDown	1.008
		1 → Down			
423	Status 2 - Switching	0 → Off	R	DPT_Switch	1.001
		1 → On			
	Status 2 - Dimming On/Off	0 → Off	R	DPT_Switch	1.001
		1 → On			
	Status 2 - Blind step	0 → Step up	R	DPT_Step	1.007
		1 → Step down			
424	Status 2 - Value	1 byte unsigned value	R	DPT_Value_1_Ucount	5.010
		2 byte unsigned value	R	DPT_Valve _2_Ucount	7.001
		2 byte signed value	R	DPT_Value_2_Count	8.001
		Temperature (°C)	R	DPT_Value_Temp	9.001
		4 byte unsigned value	R	DPT_Value_4_Ucount	12.001
	Status 2 - Dimming step	Dimming step	R	DPT_Control_Dimming	3.007
	Status 2 - Blind move	0 → Up	R	DPT_UpDown	1.008
		1 → Down			
425	Status 3 - Switching	0 → Off	R	DPT_Switch	1.001
		1 → On			
	Status 3 - Dimming On/Off	0 → Off	R	DPT_Switch	1.001
		1 → On			
	Status 3 - Blind step	0 → Step up	R	DPT_Step	1.007
		1 → Step down			
426	Status 3 - Value	1 byte unsigned value	R	DPT_Value_1_Ucount	5.010
		2 byte unsigned value	R	DPT_Valve _2_Ucount	7.001
		2 byte signed value	R	DPT_Value_2_Count	8.001
		Temperature (°C)	R	DPT_Value_Temp	9.001
		4 byte unsigned value	R	DPT_Value_4_Ucount	12.001
	Status 3 - Dimming step	Dimming step	R	DPT_Control_Dimming	3.007
	Status 3 - Blind move	0 → Up	R	DPT_UpDown	1.008
		1 → Down			
427	Status temperature units	0 → Celsius	R	DPT_Bool	1.002
		1 → Fahrenheit			

Error codes

AIDOO KNX PANASONIC AQUAREA (PAW-AZAW-KNX-1 [AZAI6KNX2PN2])

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Primary location to verify
H00	No abnormality detected	-	-
H12	Indoor / Outdoor capacity unmatched	90s after power supply	- Indoor / Outdoor connection wire - Indoor / Outdoor PCB - Specification and combination table in catalogue
H15	Outdoor compressor temperature sensor abnormality	Continue for 5s	Compressor temperature sensor (defective or disconnected)
H20	Water pump abnormality	Continue for 10s	- Indoor PCB - Water pump (malfunction)
H23	Indoor refrigerant liquid temperature sensor abnormality	Continue for 5s	Refrigerant liquid temperature sensor (defective or disconnected)
H27	Service valve error	Continue for 5 minutes	High pressure sensor (defective or disconnected)
H28	Abnormal solar sensor	Continue for 5s	Solar temperature sensor (defective or disconnected)
H31	Abnormal swimming pool sensor	Continue for 5s	Pool temperature sensor (defective or disconnected)
H36	Abnormal buffer tank sensor	Continue for 5s	Buffer tank sensor (defective or disconnected)
H38	Brand code not match	When indoor and outdoor brand code not same	-
H42	Compressor low pressure abnormality	-	- Outdoor pipe temperature sensor - Clogged expansion valve or strainer - Insufficient refrigerant - Outdoor PCB - Compressor
H43	Abnormal Zone 1 sensor	Continue for 5s	Water temperature Zone 1 sensor
H44	Abnormal Zone 2 sensor	Continue for 5s	Water temperature Zone 2 sensor
H62	Water flow switch abnormality	Continue for 1 minute	Water flow switch
H63	Refrigerant low pressure abnormality	Continue for 5s	Outdoor low pressure sensor (defective or disconnected)
H64	Refrigerant high pressure abnormality	Continue for 5s	Outdoor high pressure sensor (defective or disconnected)
H65	Deice circulation error	Continue for 10s	- Water flow switch sensor (defective or disconnected) - Water pump malfunction - Buffer tank (is used)
H67	Abnormal external thermistor 1	Continue for 5s	Room temperature Zone 1 sensor
H68	Abnormal external thermistor 2	Continue for 5s	Room temperature Zone 2 sensor
H70	Back-up heater OLP abnormality	Continue for 60s	Back-up heater OLP (disconnection or activated)
H72	Tank sensor abnormal	Continue for 5s	Tank sensor
H74	PCB communication error	Communication or transfer error	Indoor main PCB and Sub PCB
H75	Low water temperature control	Room heater disable and deice request to operate under low water temperature	Heater operation must enable to increase water temperature
H76	Indoor - control panel communication abnormality	-	Indoor - control panel (defective or disconnected)
H90	Indoor / Outdoor abnormal communication	> 1 minute after starting operation	- Internal / External cable connections - Indoor / Outdoor PCB
H91	Tank heater OLP abnormality	Continue for 60s	Tank heater OLP (disconnection or activated)
H95	Indoor / Outdoor wrong connection	-	Indoor / Outdoor supply voltage
H98	Outdoor high pressure overload protection	-	- Outdoor high pressure sensor - Water pump or water leakage - Clogged expansion valve or strainer - Excess refrigerant - Outdoor PCB

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Primary location to verify
H99	Indoor heat exchanger freeze prevention	-	- Indoor heat exchanger - Refrigerant shortage
F12	Pressure switch active	4 times occurrence within 20 minutes	Pressure switch
F14	Outdoor compressor abnormal revolution	4 times occurrence within 20 minutes	Outdoor compressor
F15	Outdoor fan motor lock abnormality	2 times occurrence within 30 minutes	- Compressor tank temperature sensor - Clogged expansion valve or strainer - Insufficient refrigerant - Outdoor PCB - Compressor
F16	Total running current protection	3 times occurrence within 20 minutes	- Excess refrigerant - Outdoor PCB
F20	Outdoor compressor overheating protection	4 times occurrence within 30 minutes	- Compressor tank temperature sensor - Clogged expansion valve or strainer - Insufficient refrigerant - Outdoor PCB - Compressor
F22	IPM (power transistor) overheating protection	3 times occurrence within 30 minutes	- Improper heat exchange - IPM (power transistor)
F23	Outdoor direct current (DC) peak detection	7 times occurrence continuously	- Outdoor PCB - Compressor
F24	Refrigeration cycle abnormality	2 times occurrence within 20 minutes	- Insufficient refrigerant - Outdoor PCB - Compressor low compression
F25	Cooling / Heating cycle changeover abnormality	4 times occurrence within 30 minutes	4-way valve - V-coil
F27	Pressure switch abnormality	Continue for 1 minute	Pressure switch
F29	Low discharge superheat	1 time occurrence within 2550 minutes	- Discharge temperature sensor - Discharge pressure sensor - Pressure switch - Outdoor PCB
F30	Water outlet sensor 2 abnormality	Continue for 5s	Water outlet sensor 2 (defective or disconnected)
F32	Abnormal internal thermostat	Continue for 5s	Control panel PCB thermostat
F36	Outdoor air temperature sensor abnormality	Continue for 5s	Outdoor air temperature sensor (defective or disconnected)
F37	Indoor water inlet temperature sensor abnormality	Continue for 5s	Water inlet temperature sensor (defective or disconnected)
F40	Outdoor discharge pipe temperature sensor abnormality	Continue for 5s	Outdoor discharge pipe temperature sensor (defective or disconnected)
F41	PFC control	4 times occurrence within 10 minutes	Voltage at PFC
F42	Outdoor heat exchanger temperature sensor abnormality	Continue for 5s	Outdoor heat exchanger temperature sensor (defective or disconnected)
F43	Outdoor defrost sensor abnormality	Continue for 5s	Outdoor defrost sensor (defective or disconnected)
F45	Indoor water outlet temperature sensor abnormality	Continue for 5s	Water outlet temperature sensor (defective or disconnected)
F46	Outdoor current transformer (CT) open circuit	-	- Insufficient refrigerant - Outdoor PCB - Compressor low
F48	Outdoor EVA outlet temperature sensor abnormality	Continue for 5s	Outdoor EVA outlet temperature sensor (defective or disconnected)
F49	Outdoor bypass outlet temperature sensor abnormality	Continue for 5s	Outdoor bypass outlet temperature sensor (defective or disconnected)
F95	Cooling high pressure overload protection	-	- Outdoor high pressure sensor - Water pump or water leakage - Clogged expansion valve or strainer - Excess refrigerant - Outdoor PCB

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