

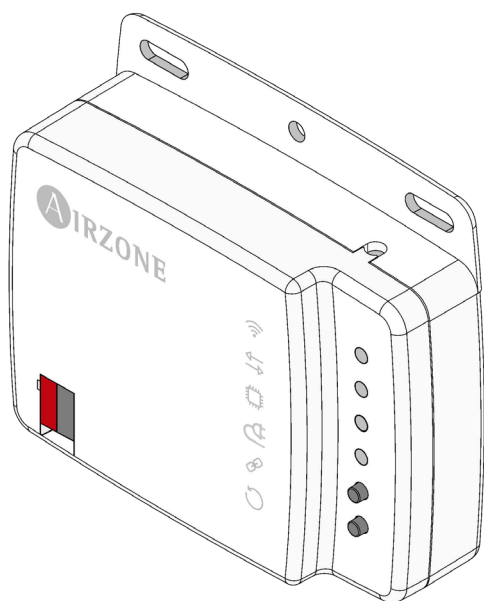


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Integration manual

Aidoo KNX

Direct Expansion [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.

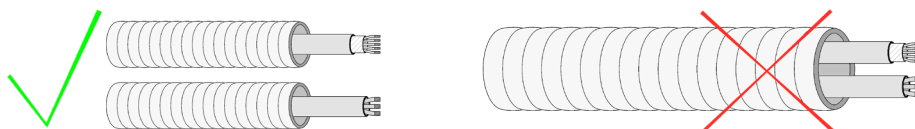
If you replace it with other equipment, you must return it to the distributor or take it to a specialized collection center.

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.



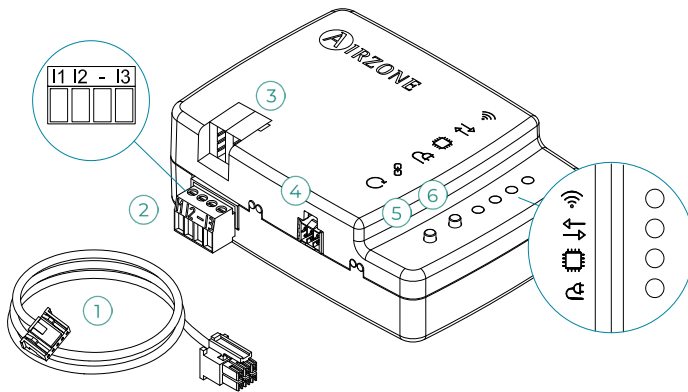
- Respect the connection polarity of each device. A wrong connection may seriously damage the product.

Introduction

Device to manage and integrate HVAC units in KNX TP-1 control systems. Externally powered by the indoor unit/KNX bus (depending on your unit). Option to program the device via the KNX bus before connecting it to the UI.

Functionalities:

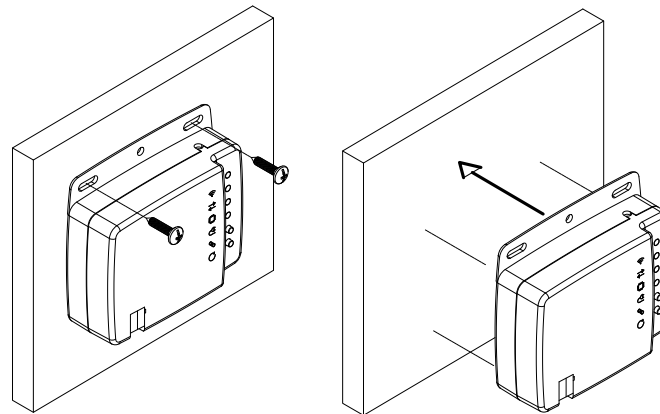
- Control of the parameters of the unit.
- KNX control.
- KNX standard data.
- 3 digital inputs.
- Easily configurable from ETS.
- Communication errors detection.



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

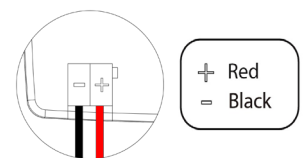
The device can be mounted using screws or double-sided adhesive tape (included with the product).



Connection

To connect the device to the HVAC 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 HVAC unit being controlled.

DEFAULT COMMUNICATION OBJECTS

By selecting "Direct expansion" 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.

Object number	1: Control On/Off	
Description	This allows you to switch the AC unit on or off	
Values	0 → Off	1 → On
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	
Object number	63: Status On/Off	
Description	This shows the status of the AC unit (on or off)	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	
Object number	2: Control operation mode	
Description	This allows you to change the AC unit's operating mode	
Values	0 → Auto 1 → Heat 3 → Cool	9 → Fan 14 → Dry
Type of access to the bus	Write	
Datapoint identification	20.105 (DPT_HVACContrMode)	
Object number	64: Status operation mode	
Description	This shows the operating mode of the AC unit	
Values	0 → Auto 1 → Heat 3 → Cool	9 → Fan 14 → Dry
Type of access to the bus	Reading	
Datapoint identification	20.105 (DPT_HVACContrMode)	
Object number	12: Control fan speed (3 speeds)	
Description	This allows you to change the AC unit's ventilation speed	
Values	0 ... 49 % → Speed 1 50 ... 82 % → Speed 2 83 ... 100 % → Speed 3	1 → Speed 1 2 → Speed 2 3 → Speed 3
Type of access to the bus	Write	
Datapoint identification	5.001 (DPT_Scalling)	5.100 (DPT_Enumerated)

Object number 72: Status fan speed (3 speeds)

Description	This shows the AC unit's ventilation speed	
Values	33 % → Speed 1 66 % → Speed 2 100 % → Speed 3	1 → Speed 1 2 → Speed 2 3 → Speed 3
Type of access to the bus	Reading	
Datapoint identification	5.001 (DPT_Scalling)	5.100 (DPT_Enumerated)

Note: You can configure the object type in the [Fan configuration](#) section, under the "Parameters" tab in ETS. By default it is configured as Datapoint 5.001 (percentage control).

Object number 39: Control set point temperature

Description	This allows you to select the AC unit's set point 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 99: Status set point temperature

Description	This shows the set point temperature selected for the AC 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 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)	

Object number	46: Control rotation function	
Description	This allows you to activate the rotation function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	115: Status rotation function	
Description	This shows whether the rotation function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	47: Control Sleep function	
Description	This allows you to activate the sleep function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	116: Status Sleep function	
Description	This shows whether the sleep function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	48: Control auto restart function	
Description	This allows you to activate the auto restart function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	117: Status auto restart function	
Description	This shows whether the auto restart function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	49: Control dehumitification function	
Description	This allows you to activate the dehumitification function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	118: Status dehumitification function	
Description	This shows whether the dehumitification function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	50: Control defrost function	
Description	This allows you to activate the defrost function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	

Object number	121: Status defrost function	
Description	This shows whether the defrost function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	51: Control Powerful function	
Description	This allows you to activate the powerful function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	127: Status Powerful function	
Description	This shows whether the powerful function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	52: Control confort function	
Description	This allows you to activate the confort function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	128: Status confort function	
Description	This shows whether the confort function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	53: Control Eco/Health function	
Description	This allows you to activate the eco/health function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	129: Status Eco/Health function	
Description	This shows whether the eco/health function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	54: Control economy function	
Description	This allows you to activate the economy function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	130: Status economy function	
Description	This shows whether the economy function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	

Object number 55: Control antifungus function**Description** This allows you to activate the antifungus function**Values** 0 → Disable 1 → Enable**Type of access to the bus** Write**Datapoint identification** 1.003 (DPT_Enable)**Object number 131: Status antifungus function****Description** This shows whether the antifungus function is activated**Values** 0 → Disable 1 → Enable**Type of access to the bus** Reading**Datapoint identification** 1.003 (DPT_Enable)**Object number 56: Control cleaning function****Description** This allows you to activate the cleaning function**Values** 0 → Disable 1 → Enable**Type of access to the bus** Write**Datapoint identification** 1.003 (DPT_Enable)**Object number 132: Status cleaning function****Description** This shows whether the cleaning function is activated**Values** 0 → Disable 1 → Enable**Type of access to the bus** Reading**Datapoint identification** 1.003 (DPT_Enable)**Object number 57: Control silence function****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 133: Status silence function****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 58: Control test function****Description** This allows you to activate the test function**Values** 0 → Disable 1 → Enable**Type of access to the bus** Write**Datapoint identification** 1.003 (DPT_Enable)**Object number 135: Status test function****Description** This shows whether the test function is activated**Values** 0 → Disable 1 → Enable**Type of access to the bus** Reading**Datapoint identification** 1.003 (DPT_Enable)**Object number 59: Control vacation function****Description** This allows you to activate the vacation mode function**Values** 0 → Disable 1 → Enable**Type of access to the bus** Write**Datapoint identification** 1.003 (DPT_Enable)

Object number	137: Status vacation function	
Description	This shows whether the vacation mode function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	60: Control electric heating function	
Description	This allows you to activate the electric heating function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	138: Status electric heating function	
Description	This shows whether the electric heating function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	61: Control night function	
Description	This allows you to activate the night mode function	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.003 (DPT_Enable)	
Object number	141: Status night function	
Description	This shows whether the night mode function is activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	62: Control leak detection reset	
Description	Allows you to reset the leak detection sensor	
Values	1 → Reset	
Type of access to the bus	Write	
Datapoint identification	1.015 (DPT_Reset)	
Object number	142: Status leak detection reset	
Description	This shows whether the leak detection sensor has been reset	
Values	0 → No alarm	1 → Alarm
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	119: Status central lock	
Description	This shows whether the centralized control has been locked	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	120: Status defrost warning	
Description	This shows whether the defrost warning has been detected	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	

Object number	122: Status product type	
Description	This shows the type of AC unit in your system	
Values	ASCII String	
Type of access to the bus	Reading	
Datapoint identification	16.001 (DPT_String_8859_1)	
Object number	123: Status indoor unit address	
Description	This shows the address of the AC unit	
Values	0 ... 655335	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	124: Status indoor unit model	
Description	This shows the model of the AC unit	
Values	ASCII String	
Type of access to the bus	Reading	
Datapoint identification	16.001 (DPT_String_8859_1)	
Object number	125: Status indoor unit capacity	
Description	This shows the capacity of the AC unit	
Values	0 ... 655335	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	126: Status outdoor unit On/Off	
Description	This shows the status of the outdoor unit (on or off)	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	
Object number	134: Status human detection	
Description	This shows whether the occupancy detection function has been activated	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	136: Status fresh air valve	
Description	This shows whether the fresh air valve is open	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.003 (DPT_Enable)	
Object number	139: Status static pressure	
Description	This shows the static pressure value	
Values	0 ... 655335	
Type of access to the bus	Reading	
Datapoint identification	7.001 (DPT_Value_2_Ucount)	
Object number	140: Status preheating function	
Description	This shows whether the preheating function is on	
Values	0 → Off	1 → On
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	

Object number	143: Status central controller
Description	This shows whether the centralized control has detected any presence
Values	0 → No present 1 → Present
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	144: Status On operation lock
Description	This shows whether the AC unit's locking is activated
Values	1 → Blocked
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	145: Status Off operation lock
Description	This shows whether the AC unit's locking is deactivated
Values	1 → Blocked
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	146: Status mode lock
Description	This shows whether the operation mode has been locked
Values	1 → Blocked
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	147: Status set point lock
Description	This shows whether the set point temperature has been locked
Values	1 → Blocked
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	148: Status fan speed lock
Description	This shows whether the fan speed has been locked
Values	1 → Blocked
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	149: Status slats operation lock
Description	This shows whether slats have been locked
Values	1 → Blocked
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)

- 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	This shows the temperature of the indoor unit's refrigerant	
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 On/Off changes
- ◆ Lock mode changes
- ◆ Lock fan speed changes
- ◆ Lock 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)	

- Enable use of objects for filter

Object number	43: Control reset filter alarm	
Description	This resets the filter cleaning warning counter on the AC unit	
Values	1 → Reset filter	
Type of access to the bus	Write	
Datapoint identification	1.015 (DPT_Reset)	
Object number	112: Status reset filter alarm	
Description	This shows whether or not a filter cleaning warning has occurred in the AC unit	
Values	0 → No alarm	1 → Alarm
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	

Mode configuration

- Enable “Mode cool/heat” objects

Object number	3: Control operation mode Cool/Heat	
Description	This allows you to select the AC 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	65: Status operation mode Cool/Heat	
Description	This shows the operation mode selected for the AC 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	4: Control operation mode Cool + On	
Description	This allows you to switch the AC 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	5: Control operation mode Heat + On	
Description	This allows you to switch the AC 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	6: Control operation mode Auto	
Description	This allows you to select auto mode as the AC unit's operation mode	
Values	1 → Auto	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number	66: Status operation mode Auto	
Description	This shows that the operation mode currently selected for the AC unit is auto mode	
Values	1 → Auto	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	

Object number	7: Control operation mode Heat	
Description	This allows you to select heating mode as the AC unit's operation mode	
Values	1 → Heat	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number	67: Status operation mode Heat	
Description	This shows that the operation mode currently selected for the AC unit is heating mode	
Values	1 → Heat	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	

Object number 8: Control operation mode Cool**Description** This allows you to select cooling mode as the AC unit's operation mode**Values** 1 → Cool**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 68: Status operation mode Cool****Description** This shows that the operation mode currently selected for the AC unit is cooling mode**Values** 1 → Cool**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 9: Control operation mode Ventilation****Description** This allows you to select ventilation mode as the AC unit's operation mode**Values** 1 → Fan**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 69: Status operation mode Ventilation****Description** This shows that the operation mode currently selected for the AC unit is ventilation mode**Values** 1 → Fan**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 10: Control operation mode Dry****Description** This allows you to select dry mode as the AC unit's operation mode**Values** 1 → Dry**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 70: Status operation mode Dry****Description** This shows that the operation mode currently selected for the AC unit is dry mode**Values** 1 → Dry**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 11: Control operation mode +/-**Description** This allows you to change the AC unit's operation mode**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 text object for mode

Object number 71: Status operation mode text**Description** This shows the AC unit's operation mode**Values** ASCII String**Type of access to the bus** Reading**Datapoint identification** 16.001 (DPT_String_8859_1)

Object number 16: Control fan speed 2**Description** This allows you to activate fan speed 2 on the AC unit**Values** 1 → Set fan speed 2**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 76: Status fan speed (speed 2)****Description** This shows whether the AC unit's fan speed is set to 2**Values** 1 → Fan is in speed 2**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 17: Control fan speed 3****Description** This allows you to activate fan speed 3 on the AC unit**Values** 1 → Set fan speed 3**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 77: Status fan speed (speed 3)****Description** This shows whether the AC unit's fan speed is set to 3**Values** 1 → Fan is in speed 3**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)

- Enable use of +/- object for fan speed

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

Object number 18: Control fan speed +/-**Description** This allows you to change the AC unit's fan speed

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)
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- Enable use of text object for fan speed

Object number 78: Status fan speed text**Description** This shows the AC unit's fan speed**Values** ASCII String**Type of access to the bus** Reading**Datapoint identification** 16.001 (DPT_String_8859_1)

Vanes configuration

- **Enable use of vertical movement vanes**

If you select Yes, objects 19 and 79 will be enabled to control the vertical movement of the slats, and the following fields will appear:

- ◇ Enable use of 5 vanes control
- ◇ DPT object type for vertical vanes
- ◇ Enable use of bit-type vertical vanes objects
- ◇ Enable use of +/- object for vertical vanes
- ◇ Enable use of text object for vertical vanes

Object number 19: Control slats U-D (5 positions)		
Description	This allows you to change the vertical position of the AC unit's slats	
Values	0 ... 29 % → Position 1 30 ... 49 % → Position 2 50 ... 69 % → Position 3 70 ... 89 % → Position 4 90 ... 100 % → Position 5	1 → Position 1 2 → Position 2 3 → Position 3 4 → Position 4 5 → Position 5
Type of access to the bus	Write	
Datapoint identification	5.001 (DPT_Scalling)	5.010 (DPT_Enumerated)

Object number 79: Status slats U-D (5 positions)		
Description	This shows the vertical position of the AC unit's slats	
Values	20 % → Position 1 40 % → Position 2 60 % → Position 3 80 % → Position 4 100 % → Position 5	1 → Position 1 2 → Position 2 3 → Position 3 4 → Position 4 5 → Position 5
Type of access to the bus	Reading	
Datapoint identification	5.001 (DPT_Scalling)	5.010 (DPT_Enumerated)

- **Enable use of 5 vanes control**

Select the slats you want to control (5 or N). 5 slats are controlled by default (communication objects 19 and 79). If you select to control up to N slats, communication objects 19 and 79 will be replaced by 20 and 80, respectively.

Object number 20: Control slats U-D (N positions)		
Description	This allows you to change the vertical position of the AC unit's slats	
Values	0 ... 100 % → Vane 1 to vane N	1 → Position 1 2 → Position 2 3 → Position 3 4 → Position 4 5 → Position 5 6 → Position 6 7 → Position 7 8 → Position 8
Type of access to the bus	Write	
Datapoint identification	5.001 (DPT_Scalling)	5.010 (DPT_Enumerated)

Object number 80: Status slats U-D (N positions)		
Description	This shows the vertical position of the AC unit's slats	
Values	0 ... 100 % → Vane 1 to vane N	1 → Position 1 2 → Position 2 3 → Position 3 4 → Position 4 5 → Position 5 6 → Position 6 7 → Position 7 8 → Position 8
Type of access to the bus	Reading	
Datapoint identification	5.001 (DPT_Scalling)	5.010 (DPT_Enumerated)

- DPT object type for vertical vanes

Select whether you want to use Datapoint DPT 5.001 (percentage control (Scaling)) or DPT 5.010 (number control (Enumerated)) to control and read the status of the AC unit's slats:

5.001 (DPT_Scaling)	5.010 (DPT_Enumerated)
0 ... 29 % → Position 1	1 → Position 1
30 ... 49 % → Position 2	2 → Position 2
50 ... 69 % → Position 3	3 → Position 3
70 ... 89 % → Position 4	4 → Position 4
90 ... 100 % → Position 5	5 → Position 5

- Enable use of bit-type vertical vanes objects

Object number	21: Control slats U-D Auto mode	
Description	This allows you activate the auto function for the vertical movement of the AC unit's slats	
Values	0 → Off	1 → Auto
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	
Object number	81: Status slats U-D Auto mode	
Description	This shows whether the vertical movement auto function is activated for the AC unit's slats	
Values	0 → Off	1 → Auto
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	22: Control slats U-D (position 1)	
Description	This allows you to activate vertical position 1 for the AC unit's slats	
Values	1 → Set position 1	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	
Object number	82: Status slats U-D (position 1)	
Description	This shows whether the vertical movement of the AC unit's slats is in position 1	
Values	1 → Position 1	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	23: Control slats U-D (position 2)	
Description	This allows you to activate vertical position 2 for the AC unit's slats	
Values	1 → Set position 2	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	
Object number	83: Status slats U-D (position 2)	
Description	This shows whether the vertical movement of the AC unit's slats is in position 2	
Values	1 → Position 2	
Type of access to the bus	Reading	
Datapoint identification	1.002 (DPT_Bool)	
Object number	24: Control slats U-D (position 3)	
Description	This allows you to activate vertical position 3 for the AC unit's slats	
Values	1 → Set position 3	
Type of access to the bus	Write	
Datapoint identification	1.002 (DPT_Bool)	

Object number 84: Status slats U-D (position 3)**Description** This shows whether the vertical movement of the AC unit's slats is in position 3**Values** 1 → Position 3**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 25: Control slats U-D (position 4)****Description** This allows you to activate vertical position 4 for the AC unit's slats**Values** 1 → Set position 4**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 85: Status slats U-D (position 4)****Description** This shows whether the vertical movement of the AC unit's slats is in position 4**Values** 1 → Position 4**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 26: Control slats U-D (position 5)****Description** This allows you to activate vertical position 5 for the AC unit's slats**Values** 1 → Set position 5**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 86: Status slats U-D (position 5)****Description** This shows whether the vertical movement of the AC unit's slats is in position 5**Values** 1 → Position 5**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 27: Control slats U-D swing mode****Description** This allows you activate the swing function for the vertical movement of the AC unit's slats**Values** 0 → Off 1 → Swing**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 87: Status slats U-D swing mode****Description** This shows whether the vertical movement swing function is activated for the AC unit's slats**Values** 0 → Off 1 → Swing**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)

- Enable use of +/- object for vertical vanes

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

Object number 28: Control slats U-D +/-**Description** This allows you to control the vertical movement of the AC unit's slats**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 vertical vanes

Object number	88: Status slats U-D text
Description	This shows the vertical position of the AC unit's slats
Values	ASCII String
Type of access to the bus	Reading
Datapoint identification	16.001 (DPT_String_8859_1)

- **Enable use of horizontal movement vanes**

If you select Yes, objects 29 and 89 will be enabled to control the horizontal movement of the slats, and the following fields will appear:

- ◇ Enable use of 5 vanes control
- ◇ DPT object type for horizontal vanes
- ◇ Enable use of bit-type horizontal vanes objects
- ◇ Enable use of +/- object for horizontal vanes
- ◇ Enable use of text object for horizontal vanes

Object number	29: Control slats L-R (5 positions)	
Description	This allows you to change the horizontal position of the AC unit's slats	
Values	0 ... 29 % → Position 1 30 ... 49 % → Position 2 50 ... 69 % → Position 3 70 ... 89 % → Position 4 90 ... 100 % → Position 5	1 → Position 1 2 → Position 2 3 → Position 3 4 → Position 4 5 → Position 5
Type of access to the bus	Write	
Datapoint identification	5.001 (DPT_Scalling)	5.010 (DPT_Enumerated)

Object number	89: Status slats U-D (5 positions)	
Description	This shows the horizontal position of the AC unit's slats	
Values	20 % → Position 1 40 % → Position 2 60 % → Position 3 80 % → Position 4 100 % → Position 5	1 → Position 1 2 → Position 2 3 → Position 3 4 → Position 4 5 → Position 5
Type of access to the bus	Reading	
Datapoint identification	5.001 (DPT_Scalling)	5.010 (DPT_Enumerated)

- Enable use of 5 vanes control

Select the slats you want to control (5 or N). 5 slats are controlled by default (communication objects 29 and 89). If you select to control up to N slats, communication objects 29 and 89 will be replaced by 30 and 90, respectively.

Object number	30: Control slats L-R (N positions)	
Description	This allows you to change the horizontal position of the AC unit's slats	
Values	0 ... 100 % → Vane 1 to vane N	1 → Position 1 2 → Position 2 3 → Position 3 4 → Position 4 5 → Position 5 6 → Position 6 7 → Position 7 8 → Position 8
Type of access to the bus	Write	
Datapoint identification	5.001 (DPT_Scalling)	5.010 (DPT_Enumerated)

Object number 90: Status slats L-R (N positions)**Description** This shows the horizontal position of the AC unit's slats**Values** 0 ... 100 % → Vane 1 to vane N

1 → Position 1
 2 → Position 2
 3 → Position 3
 4 → Position 4
 5 → Position 5
 6 → Position 6
 7 → Position 7
 8 → Position 8

Type of access to the bus Reading**Datapoint identification** 5.001 (DPT_Scaling)

5.010 (DPT_Enumerated)

- DPT object type for horizontal vanes

Select whether you want to use Datapoint DPT 5.001 (percentage control (Scaling)) or DPT 5.010 (number control (Enumerated)) to control and read the status of the AC unit's slats:

5.001 (DPT_Scaling)**5.010 (DPT_Enumerated)**

0 ... 29 % → Position 1
 30 ... 49 % → Position 2
 50 ... 69 % → Position 3
 70 ... 89 % → Position 4
 90 ... 100 % → Position 5

1 → Position 1
 2 → Position 2
 3 → Position 3
 4 → Position 4
 5 → Position 5

- Enable use of bit-type horizontal vanes objects

Object number 31: Control slats L-R Auto mode**Description** This allows you activate the auto function for the horizontal movement of the AC unit's slats**Values** 0 → Off

1 → Auto

Type of access to the bus Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 91: Status slats L-R Auto mode****Description** This shows whether the horizontal movement auto function is activated for the AC unit's slats**Values** 0 → Off

1 → Auto

Type of access to the bus Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 32: Control slats L-R (position 1)****Description** This allows you to activate horizontal position 1 for the AC unit's slats**Values** 1 → Set position 1**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)**Object number 92: Status slats L-R (position 1)****Description** This shows whether the horizontal movement of the AC unit's slats is in position 1**Values** 1 → Position 1**Type of access to the bus** Reading**Datapoint identification** 1.002 (DPT_Bool)**Object number 33: Control slats L-R (position 2)****Description** This allows you to activate horizontal position 2 for the AC unit's slats**Values** 1 → Set position 2**Type of access to the bus** Write**Datapoint identification** 1.002 (DPT_Bool)

Object number	93: Status slats L-R (position 2)
Description	This shows whether the horizontal movement of the AC unit's slats is in position 2
Values	1 → Position 2
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	34: Control slats L-R (position 3)
Description	This allows you to activate horizontal position 3 for the AC unit's slats
Values	1 → Set position 3
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	94: Status slats L-R (position 3)
Description	This shows whether the horizontal movement of the AC unit's slats is in position 3
Values	1 → Position 3
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	35: Control slats L-R (position 4)
Description	This allows you to activate horizontal position 4 for the AC unit's slats
Values	1 → Set position 4
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	95: Status slats L-R (position 4)
Description	This shows whether the horizontal movement of the AC unit's slats is in position 4
Values	1 → Position 4
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	36: Control slats L-R (position 5)
Description	This allows you to activate horizontal position 5 for the AC unit's slats
Values	1 → Set position 5
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	96: Status slats L-R (position 5)
Description	This shows whether the horizontal movement of the AC unit's slats is in position 5
Values	1 → Position 5
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)
Object number	37: Control slats L-R swing mode
Description	This allows you activate the swing function for the horizontal movement of the AC unit's slats
Values	0 → Off 1 → Swing
Type of access to the bus	Write
Datapoint identification	1.002 (DPT_Bool)
Object number	97: Status slats L-R swing mode
Description	This shows whether the horizontal movement swing function is activated for the AC unit's slats
Values	0 → Off 1 → Swing
Type of access to the bus	Reading
Datapoint identification	1.002 (DPT_Bool)

- Enable use of +/- object for horizontal vanes

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

Object number	38: Control slats L-R +/-	
Description	This allows you to control the horizontal movement of the AC unit's slats	
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 text object for horizontal vanes

Object number	98: Status slats L-R text	
Description	This shows the horizontal position of the AC unit's slats	
Values	ASCII String	
Type of access to the bus	Reading	
Datapoint identification	16.001 (DPT_String_8859_1)	

Temperature configuration

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

Indicate how often you want the set point temperature status to be sent to the AC 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	40: Control set point temperature +/-	
Description	This allows you to raise or lower the set point temperature of the AC unit 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 minimum and maximum set point temperature that can be set for the AC unit (in increments of 1 °C/°F).

Object number	41: Control set point limit	
Description	This allows you to enable the function to limit the AC unit's set point temperature	
Values	0 → Disable	1 → Enable
Type of access to the bus	Write	
Datapoint identification	1.001 (DPT_Switch)	

Object number	100: Status set point temperature limitation	
Description	This shows whether the function to limit the AC unit's set point temperature is enabled	
Values	0 → Disable	1 → Enable
Type of access to the bus	Reading	
Datapoint identification	1.001 (DPT_Switch)	

Object number	102: Status Auto mode set point temperature maximum limitation	
Description	This shows the upper set point temperature limit in auto mode	
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	103: Status Auto mode set point temperature minimum limitation	
Description	This shows the lower set point temperature limit in auto mode	
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	104: Status Cool mode set point temperature maximum limitation	
Description	This shows the upper set point temperature limit in cooling mode	
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	105: Status Cool mode set point temperature minimum limitation	
Description	This shows the lower set point temperature limit in cooling mode	
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	106: Status Heat mode set point temperature maximum limitation	
Description	This shows the upper set point temperature limit in heating mode	
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	107: Status Heat mode set point temperature minimum limitation	
Description	This shows the lower set point temperature limit in heating mode	
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	108: Status Dry mode set point temperature maximum limitation	
Description	This shows the upper set point temperature limit in dry mode	
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	109: Status Dry mode set point temperature minimum limitation	
Description	This shows the lower set point temperature limit in dry mode	
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	110: Status Fan mode set point temperature maximum limitation	
Description	This shows the upper set point temperature limit in ventilation mode	
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	111: Status Fan mode set point temperature minimum limitation	
Description	This shows the lower set point temperature limit in ventilation mode	
Values	°C	°F
Type of access to the bus	Reading	
Datapoint identification	9.001 (DPT_Value_Temp)	9.027 (DPT_Value_Temp_F)

- Ambient temperature is provided from KNX

This enables/disables room temperature reading measurement from a KNX device (master).

Object number	42: Control ambient temperature	
Description	This allows the room temperature measured by a KNX device to be sent to the AC unit	
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	101: Status ambient temperature	
Description	This shows the room temperature measured by a KNX device	
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 AC unit will turn off after detecting that the window is open.
 - ◇ Action on closing window.
 - » Do not reload the last On/Off status. The AC 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 AC 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 AC 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 AC unit to be turned on while the window is open.
 - » Yes. This allows you to change the AC unit’s status while the window is open.

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 AC 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 AC unit to be turned on while the function is activated.
 - » Yes. This allows you to change the AC unit’s status while the function is activated.

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 AC unit will turn off after detecting that the room is unoccupied.
 - ◇ Action after timeout elapsed.
 - » Switch off. The AC unit is switched off after the timeout has elapsed.
 - » Unoccupied mode. The AC 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 AC 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 AC unit to be turned on while the room is unoccupied.
 - » Yes. This allows you to change the AC unit's status while the room is unoccupied.

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 AC unit will turn off after detecting that this function has been activated.

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
- ◇ Enable fan speed control by percentage
- ◇ Enable vanes control by percentage

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.

- ◇ On-Off: Select if you want to switch the AC unit on/off, or if you do not want to carry out any action.
- ◇ Mode: Select if you want to change the AC unit's operation mode, or if you do not want to carry out any action.
- ◇ Fan speed: Select if you want to change the AC unit's fan speed, or if you do not want to carry out any action.
- ◇ Vanes U-D: Select if you want to change the vertical position of the AC unit's slats, or if you do not want to carry out any action.
- ◇ Vanes L-R: Select if you want to change the horizontal position of the AC unit's slats, or if you do not want to carry out any action.
- ◇ Set point: Select if you want to change the set point temperature of the AC unit, 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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