



EN

Integration manual

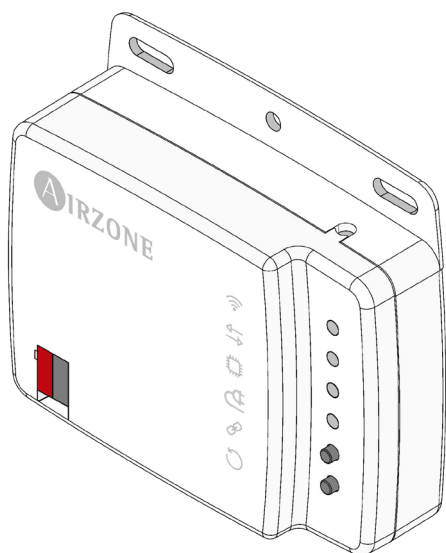
Aidoo KNX

Direct Expansion

[PAW-AZAC-KNX2-1 and PAW-AZRC-KNX2-1]

[AZAI6KNX2PN0 and AZAI6KNX2PN1]

Panasonic



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.

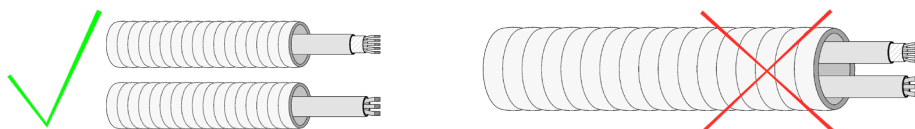
If you replace it with other equipment, you must return it to the distributor or take it to a specialized collection center.

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.



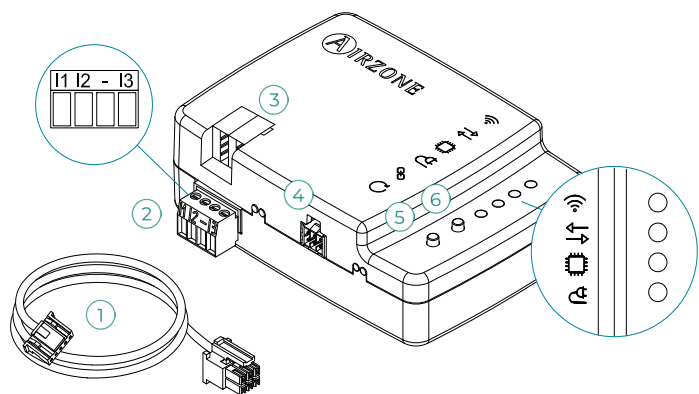
- Respect the connection polarity of each device. A wrong connection may seriously damage the product.

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:

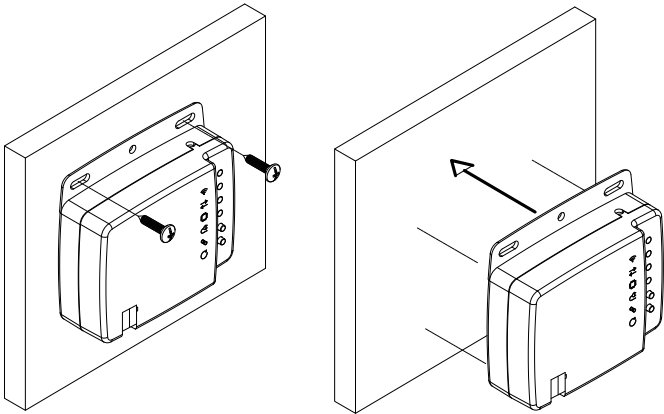
- Control of the parameters of the unit.
- KNX control.
- KNX standard data.
- 3 digital inputs.
- Easily configurable from ETS.
- Communication errors detection.



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

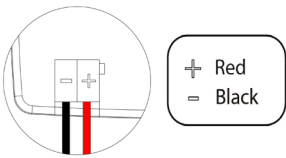
The device can be mounted using screws or double-sided adhesive tape (included with the product).



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.



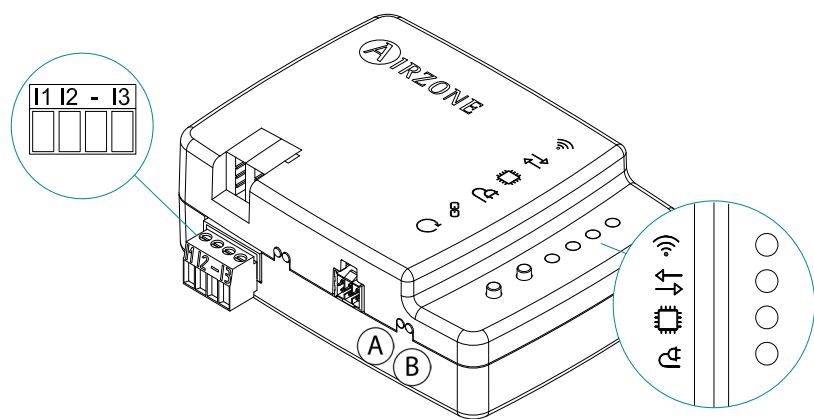
Configuration

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.

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 HVAC unit being controlled.

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

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_Scaling)	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)

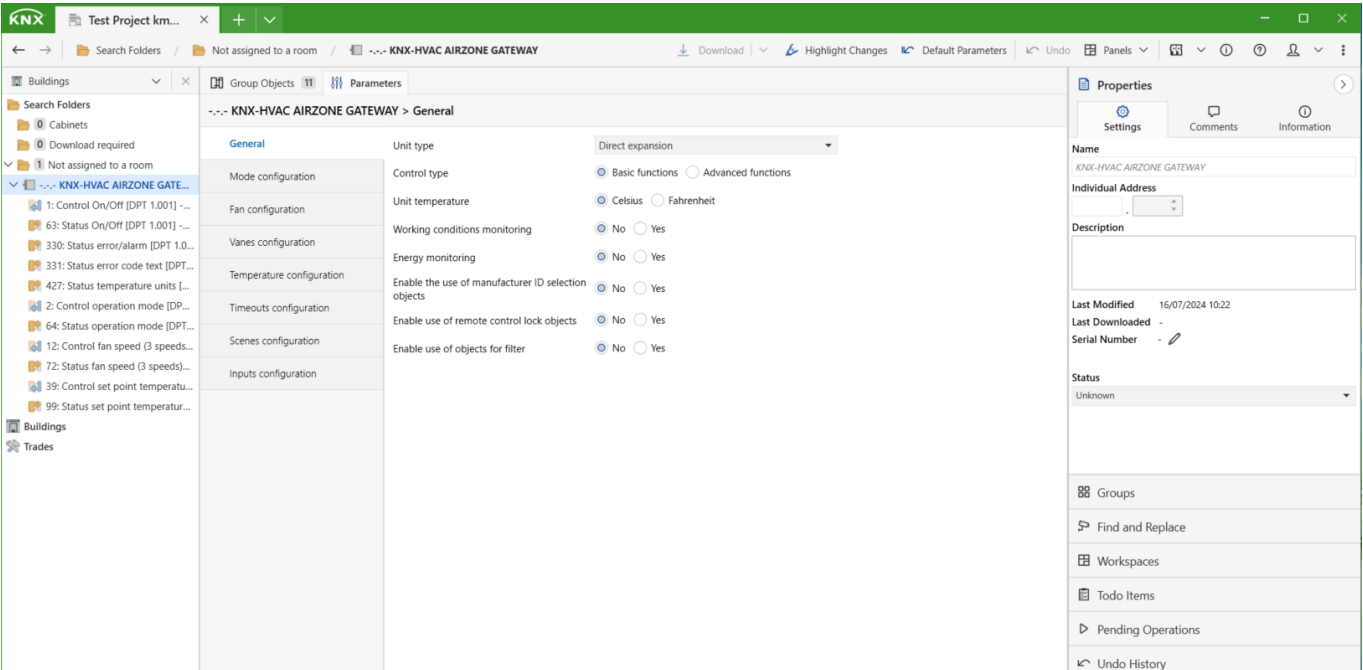
Object number	330: Status error/alarm	
Description	This shows whether or not an error/alarm has occurred in the indoor unit	
Values	0 → No alarm	1 → Alarm
Type of access to the bus	Reading	
Datapoint identification	1.005 (DPT_Alarm)	

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)	

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

- Control type

Select “Advanced functions” to enable more control options.

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)	

- 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	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)	

- 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
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 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 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	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 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 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)

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
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 RAC DOMESTIC (PAW-AZAC-KNX2-1 [AZAI6KNX2PN0])

Object number	Description	Values	Flags	Datapoint	
1	Control On/Off	0 → Off 1 → On	W	DPT_Switch	1.001
2	Control operation mode	0 → Auto 1 → Heat 3 → Cool 9 → Fan 14 → Dry	W	DPT_HVACContrMode	20.105
3	Control operation mode cool/heat	0 → Cool 1 → Heat	W	DPT_Heat/Cool	1.100
4	Control operation mode cool + On	0% → Off 1% - 100% → On + Cool	W	DPT_Scaling	5.001
5	Control operation mode heat + On	0% → Off 1% - 100% → On + Heat	W	DPT_Scaling	5.001
6	Control operation mode auto	1 → Auto	W	DPT_Bool	1.002
7	Control operation mode heat	1 → Heat	W	DPT_Bool	1.002
8	Control operation mode cool	1 → Cool	W	DPT_Bool	1.002
9	Control operation mode ventilation	1 → Fan	W	DPT_Bool	1.002
10	Control operation mode dry	1 → Dry	W	DPT_Bool	1.002
11	Control operation mode +/-	0 → Decrease 1 → Increase 0 → Up 1 → Down	W W	DPT_Step DPT_UpDown	1.007 1.008
12	Control fan speed (3 speeds)	0% - 49% → Speed 1 50% - 82% → Speed 2 83% - 100% → Speed 3 1 → Speed 1 2 → Speed 2 3 → Speed 3	W W	DPT_Scaling DPT_FanStage	5.001 5.100
13	Control fan speed (N speeds)	0 → Auto 0% - 100% → Speed 1 to speed N	W	DPT_Scaling	5.001
14	Control fan speed (Auto)	0 → Manual 1 → Auto	W	DPT_Bool	1.002
15	Control fan speed 1	1 → Set fan speed 1	W	DPT_Bool	1.002
16	Control fan speed 2	1 → Set fan speed 2	W	DPT_Bool	1.002
17	Control fan speed 3	1 → Set fan speed 3	W	DPT_Bool	1.002
18	Control fan speed +/-	0 → Decrease 1 → Increase 0 → Up 1 → Down	W W	DPT_Step DPT_UpDown	1.007 1.008

Object number	Description	Values	Flags	Datapoint	
19	Control slats U-D (5 positions)	0% - 29% → Position 1	W	DPT_Scaling	5.001
		30% - 49% → Position 2			
		50% - 69% → Position 3			
		70% - 89% → Position 4			
		90% - 100% → Position 5			
		1 → Position 1	W	DPT_Enumerated	5.010
		2 → Position 2			
		3 → Position 3			
		4 → Position 4			
		5 → Position 5			
20	Control slats U-D (N positions)	0 - 100% → Position 1 to position N	W	DPT_Scaling	5.001
		1 → Position 1	W	DPT_Enumerated	5.010
		2 → Position 2			
		3 → Position 3			
		4 → Position 4			
		5 → Position 5			
		6 → Position 6			
		7 → Position 7			
		8 → Position 8			
22	Control slats U-D (position 1)	1 → Set position 1	W	DPT_Bool	1.002
23	Control slats U-D (position 2)	1 → Set position 2	W	DPT_Bool	1.002
24	Control slats U-D (position 3)	1 → Set position 3	W	DPT_Bool	1.002
25	Control slats U-D (position 4)	1 → Set position 4	W	DPT_Bool	1.002
26	Control slats U-D (position 5)	1 → Set position 5	W	DPT_Bool	1.002
28	Control slats U-D +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
39	Control set point temperature	°C	W	DPT_Value_Temp	9.001
		°F	W	DPT_Value_Temp_F	9.027
40	Control set point temperature +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
41	Control set point limit	0 → Disable	W	DPT_Switch	1.001
		1 → Enable			
43	Control reset filter alarm	1 → Reset filter	W	DPT_Reset	1.015
63	Status On/Off	0 → Off	R	DPT_Switch	1.001
		1 → On			
64	Status operation mode	0 → Auto	R	DPT_HVACContrMode	20.105
		1 → Heat			
		3 → Cool			
		9 → Fan			
		14 → Dry			
65	Status operation mode cool/heat	0 → Cool	R	DPT_Heat/Cool	1.100
		1 → Heat			

Object number	Description	Values	Flags	Datapoint	
66	Status operation mode auto	1 → Auto	R	DPT_Bool	1.002
67	Status operation mode heat	1 → Heat	R	DPT_Bool	1.002
68	Status operation mode cool	1 → Cool	R	DPT_Bool	1.002
69	Status operation mode ventilation	1 → Fan	R	DPT_Bool	1.002
70	Status operation mode dry	1 → Dry	R	DPT_Bool	1.002
71	Status operation mode text	ASCII String	R	DPT_String_8859_1	16.001
72	Status fan speed (3 speeds)	0% - 49% → Speed 1	R	DPT_Scaling	5.001
		50% - 82% → Speed 2			
		83% - 100% → Speed 3			
		1 → Speed 1	R	DPT_FanStage	5.100
		2 → Speed 2			
		3 → Speed 3			
73	Status fan speed (N speeds)	0 → Auto	R	DPT_Scaling	5.001
		0% - 100% → Speed 1 to speed N			
74	Status fan speed (Auto)	0 → Manual	R	DPT_Bool	1.002
		1 → Auto			
75	Status fan speed (speed 1)	1 → Fan is in speed 1	R	DPT_Bool	1.002
76	Status fan speed (speed 2)	1 → Fan is in speed 2	R	DPT_Bool	1.002
77	Status fan speed (speed 3)	1 → Fan is in speed 3	R	DPT_Bool	1.002
78	Status fan speed text	ASCII String	R	DPT_String_8859_1	16.001
79	Status slats U-D (5 positions)	0% - 29% → Position 1	R	DPT_Scaling	5.001
		30% - 49% → Position 2			
		50% - 69% → Position 3			
		70% - 89% → Position 4			
		90% - 100% → Position 5			
		1 → Position 1	R	DPT_Enumerated	5.010
		2 → Position 2			
		3 → Position 3			
		4 → Position 4			
		5 → Position 5			
80	Status slats U-D (N positions)	0 - 100% → Position 1 to position N	R	DPT_Scaling	5.001
		1 → Position 1	R	DPT_Enumerated	5.010
		2 → Position 2			
		3 → Position 3			
		4 → Position 4			
		5 → Position 5			
		6 → Position 6			
		7 → Position 7			
		8 → Position 8			
82	Status slats U-D (position 1)	1 → Position 1	R	DPT_Bool	1.002
83	Status slats U-D (position 2)	1 → Position 2	R	DPT_Bool	1.002
84	Status slats U-D (position 3)	1 → Position 3	R	DPT_Bool	1.002
85	Status slats U-D (position 4)	1 → Position 4	R	DPT_Bool	1.002
86	Status slats U-D (position 5)	1 → Position 5	R	DPT_Bool	1.002
88	Status slats U-D text	ASCII String	R	DPT_String_8859_1	16.001

Object number	Description	Values	Flags	Datapoint	
99	Status set point temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
100	Status set point temperature limitation	0 → Disabled	R	DPT_Switch	1.001
		1 → Enabled			
102	Status auto mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
103	Status auto mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
104	Status cool mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
105	Status cool mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
106	Status heat mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
107	Status heat mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
108	Status dry mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
109	Status dry mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
110	Status fan mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
111	Status fan mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
112	Status reset filter alarm	0 → No alarm	R	DPT_Bool	1.002
		1 → Alarm			
120	Status defrost warning	0 → Disabled	R	DPT_Enable	1.003
		1 → Enabled			
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
332	Status return 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
335	Status working temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
352	Status compressor current	A	R	DPT_Value_Electric_Current	14.019
382	Control lock KNX control objects	0 → Unlock	W	DPT_Bool	1.002
		1 → Lock			
383	Control remote controller lock	0 → Unlock	W	DPT_Bool	1.002
		1 → Lock			
384	Control manufacturer ID	2 byte unsigned value	W	DPT_Valve_2_Ucount	7.001
385	Status KNX control objects lock	0 → Unlocked	R	DPT_Bool	1.002
		1 → Locked			

Object number	Description	Values	Flags	Datapoint	
386	Status remote controller lock	0 → Unlocked	R	DPT_Bool	1.002
		1 → Locked			
387	Status manufacturer ID	2 byte unsigned value	R	DPT_Valve _2_Ucount	7.001
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
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			

Object number	Description	Values	Flags	Datapoint	
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			
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			

Object number	Description	Values	Flags	Datapoint	
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			

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Object number	Description	Values	Flags	Datapoint	
1	Control On/Off	0 → Off	W	DPT_Switch	1.001
		1 → On			
2	Control operation mode	0 → Auto	W	DPT_HVACContrMode	20.105
		1 → Heat			
		3 → Cool			
		9 → Fan			
		14 → Dry			
3	Control operation mode cool/heat	0 → Cool	W	DPT_Heat/Cool	1.100
		1 → Heat			
4	Control operation mode cool + On	0% → Off	W	DPT_Scaling	5.001
		1% - 100% → On + Cool			
5	Control operation mode heat + On	0% → Off	W	DPT_Scaling	5.001
		1% - 100% → On + Heat			
6	Control operation mode auto	1 → Auto	W	DPT_Bool	1.002
7	Control operation mode heat	1 → Heat	W	DPT_Bool	1.002
8	Control operation mode cool	1 → Cool	W	DPT_Bool	1.002
9	Control operation mode ventilation	1 → Fan	W	DPT_Bool	1.002
10	Control operation mode dry	1 → Dry	W	DPT_Bool	1.002
11	Control operation mode +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
12	Control fan speed (3 speeds)	0% - 49% → Speed 1	W	DPT_Scaling	5.001
		50% - 82% → Speed 2			
		83% - 100% → Speed 3			
		1 → Speed 1	W	DPT_FanStage	5.100
		2 → Speed 2			
		3 → Speed 3			
13	Control fan speed (N speeds)	0 → Auto	W	DPT_Scaling	5.001
		0% - 100% → Speed 1 to speed N			
14	Control fan speed (Auto)	0 → Manual	W	DPT_Bool	1.002
		1 → Auto			
15	Control fan speed 1	1 → Set fan speed 1	W	DPT_Bool	1.002
16	Control fan speed 2	1 → Set fan speed 2	W	DPT_Bool	1.002
17	Control fan speed 3	1 → Set fan speed 3	W	DPT_Bool	1.002
18	Control fan speed +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			

Object number	Description	Values	Flags	Datapoint	
19	Control slats U-D (5 positions)	0% - 29% → Position 1	W	DPT_Scaling	5.001
		30% - 49% → Position 2			
		50% - 69% → Position 3			
		70% - 89% → Position 4			
		90% - 100% → Position 5			
		1 → Position 1	W	DPT_Enumerated	5.010
		2 → Position 2			
		3 → Position 3			
		4 → Position 4			
		5 → Position 5			
20	Control slats U-D (N positions)	0 - 100% → Position 1 to position N	W	DPT_Scaling	5.001
		1 → Position 1	W	DPT_Enumerated	5.010
		2 → Position 2			
		3 → Position 3			
		4 → Position 4			
		5 → Position 5			
		6 → Position 6			
		7 → Position 7			
		8 → Position 8			
22	Control slats U-D (position 1)	1 → Set position 1	W	DPT_Bool	1.002
23	Control slats U-D (position 2)	1 → Set position 2	W	DPT_Bool	1.002
24	Control slats U-D (position 3)	1 → Set position 3	W	DPT_Bool	1.002
25	Control slats U-D (position 4)	1 → Set position 4	W	DPT_Bool	1.002
26	Control slats U-D (position 5)	1 → Set position 5	W	DPT_Bool	1.002
27	Control slats U-D swing mode	0 → Off	W	DPT_Bool	1.002
		1 → Swing			
28	Control slats U-D +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
39	Control set point temperature	°C	W	DPT_Value_Temp	9.001
		°F	W	DPT_Value_Temp_F	9.027
40	Control set point temperature +/-	0 → Decrease	W	DPT_Step	1.007
		1 → Increase			
		0 → Up	W	DPT_UpDown	1.008
		1 → Down			
41	Control set point limit	0 → Disable	W	DPT_Switch	1.001
		1 → Enable			
42	Control ambient temperature	°C	W	DPT_Value_Temp	9.001
		°F	W	DPT_Value_Temp_F	9.027
43	Control reset filter alarm	1 → Reset filter	W	DPT_Reset	1.015
63	Status On/Off	0 → Off	R	DPT_Switch	1.001
		1 → On			

Object number	Description	Values	Flags	Datapoint	
64	Status operation mode	0 → Auto	R	DPT_HVACContrMode	20.105
		1 → Heat			
		3 → Cool			
		9 → Fan			
		14 → Dry			
65	Status operation mode cool/heat	0 → Cool	R	DPT_Heat/Cool	1.100
		1 → Heat			
66	Status operation mode auto	1 → Auto	R	DPT_Bool	1.002
67	Status operation mode heat	1 → Heat	R	DPT_Bool	1.002
68	Status operation mode cool	1 → Cool	R	DPT_Bool	1.002
69	Status operation mode ventilation	1 → Fan	R	DPT_Bool	1.002
70	Status operation mode dry	1 → Dry	R	DPT_Bool	1.002
71	Status operation mode text	ASCII String	R	DPT_String_8859_1	16.001
72	Status fan speed (3 speeds)	0% - 49% → Speed 1	R	DPT_Scaling	5.001
		50% - 82% → Speed 2			
		83% - 100% → Speed 3			
		1 → Speed 1	R	DPT_FanStage	5.100
		2 → Speed 2			
		3 → Speed 3			
73	Status fan speed (N speeds)	0 → Auto	R	DPT_Scaling	5.001
		0% - 100% → Speed 1 to speed N			
74	Status fan speed (Auto)	0 → Manual	R	DPT_Bool	1.002
		1 → Auto			
75	Status fan speed (speed 1)	1 → Fan is in speed 1	R	DPT_Bool	1.002
76	Status fan speed (speed 2)	1 → Fan is in speed 2	R	DPT_Bool	1.002
77	Status fan speed (speed 3)	1 → Fan is in speed 3	R	DPT_Bool	1.002
78	Status fan speed text	ASCII String	R	DPT_String_8859_1	16.001
79	Status slats U-D (5 positions)	0% - 29% → Position 1	R	DPT_Scaling	5.001
		30% - 49% → Position 2			
		50% - 69% → Position 3			
		70% - 89% → Position 4			
		90% - 100% → Position 5			
		1 → Position 1	R	DPT_Enumerated	5.010
		2 → Position 2			
		3 → Position 3			
		4 → Position 4			
		5 → Position 5			
80	Status slats U-D (N positions)	0 - 100% → Position 1 to position N	R	DPT_Scaling	5.001
		1 → Position 1	R	DPT_Enumerated	5.010
		2 → Position 2			
		3 → Position 3			
		4 → Position 4			
		5 → Position 5			
		6 → Position 6			
		7 → Position 7			
		8 → Position 8			

Object number	Description	Values	Flags	Datapoint	
82	Status slats U-D (position 1)	1 → Position 1	R	DPT_Bool	1.002
83	Status slats U-D (position 2)	1 → Position 2	R	DPT_Bool	1.002
84	Status slats U-D (position 3)	1 → Position 3	R	DPT_Bool	1.002
85	Status slats U-D (position 4)	1 → Position 4	R	DPT_Bool	1.002
86	Status slats U-D (position 5)	1 → Position 5	R	DPT_Bool	1.002
87	Status slats U-D swing mode	0 → Off	R	DPT_Bool	1.002
		1 → Swing			
88	Status slats U-D text	ASCII String	R	DPT_String_8859_1	16.001
99	Status set point temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
100	Status set point temperature limitation	0 → Disabled	R	DPT_Switch	1.001
		1 → Enabled			
101	Status ambient temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
102	Status auto mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
103	Status auto mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
104	Status cool mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
105	Status cool mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
106	Status heat mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
107	Status heat mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
108	Status dry mode set point temperature maximum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
109	Status dry mode set point temperature minimum limitation	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
112	Status reset filter alarm	0 → No alarm	R	DPT_Bool	1.002
		1 → Alarm			
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
332	Status return temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
333	Status internal probe temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
335	Status working temperature	°C	R	DPT_Value_Temp	9.001
		°F	R	DPT_Value_Temp_F	9.027
382	Control lock KNX control objects	0 → Unlock	W	DPT_Bool	1.002
		1 → Lock			
383	Control remote controller lock	0 → Unlock	W	DPT_Bool	1.002
		1 → Lock			
384	Control manufacturer ID	2 byte unsigned value	W	DPT_Valve_2_Ucount	7.001

Object number	Description	Values	Flags	Datapoint	
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			
387	Status manufacturer ID	2 byte unsigned value	R	DPT_Valve _2_Ucount	7.001
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
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			

Object number	Description	Values	Flags	Datapoint	
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			
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			

Object number	Description	Values	Flags	Datapoint	
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 RAC DOMESTIC (PAW-AZAC-KNX2-1 [AZAI6KNX2PNO])

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
H00	No memory of failure	-	Normal operation	-	-
H11	Indoor / Outdoor abnormal communication	After operation for 1 minute	Indoor fan only operation can start by entering into force cooling operation	Indoor / Outdoor communication not establish	- Indoor / Outdoor wire terminal - Indoor / Outdoor PCB - Indoor / Outdoor connection wire
H12	Indoor unit capacity unmatched	90s after power supply	-	Total indoor capability more than maximum limit or less than minimum limit, or number of indoor unit less than two	- Indoor / Outdoor connection wire - Indoor / Outdoor PCB - Specification and combination table in catalogue
H14	Indoor intake air temperature sensor abnormality	Continuous for 5s	-	Indoor intake air temperature sensor open or short circuit	Indoor intake air temperature sensor lead wire and connector
H15	Compressor temperature sensor abnormality	Continuous for 5s	-	Compressor temperature sensor open or short circuit	Compressor temperature sensor lead wire and connector
H16	Outdoor current transformer (CT) abnormality	-	-	Current transformer faulty or compressor faulty	Outdoor PCB faulty or compressor faulty
H19	Indoor fan motor mechanism lock	Continuous happen for 7 times	-	Indoor fan motor lock or feedback abnormal	- Fan motor lead wire and connector - Fan motor lock or block
H23	Indoor heat exchanger temperature sensor abnormality	Continuous for 5s	-	Indoor heat exchanger temperature sensor open or short circuit	Indoor heat exchanger temperature sensor lead wire and connector
H24	Indoor heat exchanger temperature sensor 2 abnormality	Continuous for 5s	-	Indoor heat exchanger temperature sensor 2 open or short circuit	Indoor heat exchanger temperature sensor 2 lead wire and connector
H25	Indoor ion device abnormality	Port is ON for 10s during ion device off	-	-	Ion device PCB
H27	Outdoor air temperature sensor abnormality	Continuous for 5s	-	Outdoor air temperature sensor open or short circuit	Outdoor air temperature sensor lead wire and connector
H28	Outdoor heat exchanger temperature sensor 1 abnormality	Continuous for 5s	-	Outdoor heat exchanger temperature sensor 1 open or short circuit	Outdoor heat exchanger temperature sensor 1 lead wire and connector
H30	Outdoor discharge pipe temperature sensor abnormality	Continuous for 5s	-	Outdoor discharge pipe temperature sensor open or short circuit	Outdoor discharge pipe temperature sensor lead wire and connector
H32	Outdoor heat exchanger temperature sensor 2 abnormality	Continuous for 5s	-	Outdoor heat exchanger temperature sensor 2 open or short circuit	Outdoor heat exchanger temperature sensor 2 lead wire and connector
H33	Indoor / Outdoor misconnection abnormality	-	-	Indoor and outdoor rated voltage different	Indoor and outdoor units check
H34	Outdoor heat sink temperature sensor abnormality	Continuous for 2s	-	Outdoor heat sink temperature sensor open or short circuit	Outdoor heat sink sensor
H36	Outdoor gas pipe temperature sensor abnormality	Continuous for 5s	Heating protection operation only	Outdoor gas pipe temperature sensor open or short circuit	Outdoor gas pipe temperature sensor lead wire and connector
H37	Outdoor liquid pipe temperature sensor abnormality	Continuous for 5s	Cooling protection operation only	Outdoor liquid pipe temperature sensor open or short circuit	Outdoor liquid pipe temperature sensor lead wire and connector
H38	Indoor / Outdoor mismatch (brand code)	-	-	Brand code not match	Check indoor unit and outdoor unit

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
H39	Abnormal indoor operating unit or standby units	3 times happen within 40 minutes	-	Wrong wiring and connection pipe, expansion valve abnormality, indoor heat exchanger sensor open circuit	· Check indoor / outdoor connection wire and connection pipe · Indoor heat exchanger sensor lead wire and connector · Expansion valve and lead wire and connector
H41	Abnormal wiring or piping connection	-	-	Wrong wiring and connecting pipe, expansion valve abnormality	· Check indoor / outdoor connection wire and connection pipe · Expansion valve and lead wire and connector
H59	ECONAVI sensor abnormality	Continuous for 25s	-	ECONAVI sensor open or short circuit	· ECONAVI sensor (defective or disconnected) · ECONAVI PCB
H64	Outdoor high pressure sensor abnormality	Continuous for 1 minute	-	High pressure sensor open circuit during compressor stop	· High pressure sensor · Lead wire and connector
H67	Nanoe abnormality	Nanoe stop for 5 minutes for 3 times	-	Nanoe faulty	· PCB · Nanoe system · High voltage
H70	Light sensor abnormality	Continuous for 24 hours, 15 days	-	Light sensor open or short circuit	· Light sensor (defective or disconnected)
H85	Abnormal communication between indoor & wireless LAN module	Communication error for 10 minutes for 3 times	-	Wireless LAN LED Off or timer LED blinking	· Network adaptor · Router · Network coverage
H97	Outdoor fan motor mechanism lock	2 times happen within 30 minutes	-	Outdoor fan motor lock or feedback abnormal	· Outdoor fan motor lead wire and connector · Fan motor lock or block
H98	Indoor high pressure protection	-	-	Indoor high pressure protection (Heating)	· Check indoor heat exchanger · Air filter dirty · Air circulation short circuit
H99	Indoor operating unit freeze protection	-	-	Indoor freeze protection (Cooling)	· Check indoor heat exchanger · Air filter dirty · Air circulation short circuit
F11	4-way valve switching abnormality	4 times happen within 30 minutes	-	4-way valve switching abnormal	· 4-way valve · Lead wire and connector
F17	Indoor standby units freezing abnormality	3 times happen within 40 minutes	-	Wrong wiring and connecting pipe, expansion valve leakage, indoor heat exchanger sensor open circuit	· Check indoor / outdoor connection wire and pipe · Indoor heat exchanger sensor lead wire and connector · Expansion valve lead wire and connector
F90	Power factor correction (PFC) circuit protection	4 times happen within 10 minutes	-	Power factor correction circuit abnormal	· Outdoor PCB faulty
F91	Refrigeration cycle abnormality	2 times happen within 20 minutes	-	Refrigeration cycle abnormal	· Insufficient refrigerant or valve close
F93	Compressor abnormal revolution	4 times happen within 20 minutes	-	Compressor abnormal revolution	· Power transistor module faulty or compressor lock
F94	Compressor discharge overshoot protection	4 times happen within 30 minutes	-	Compressor discharge pressure overshoot	· Check refrigeration system
F95	Outdoor cooling high pressure protection	4 times happen within 20 minutes	-	Cooling high pressure protection	· Check refrigeration system · Outdoor air circuit
F96	Power transistor module overheating protection	4 times happen within 30 minutes	-	Power transistor module overheat	· PCB faulty · Outdoor air circuit (fan motor)
F97	Compressor overheating protection	3 times happen within 30 minutes	-	Compressor overheat	· Insufficient refrigerant

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
F98	Total running current protection	3 times happen within 20 minutes	-	Total current protection	· Check refrigeration system · Power source or compressor lock
F99	Outdoor direct current (DC) peak detection	Continuous happen for 7 times	-	Power transistor module current protection	· Power transistor module faulty or compressor lock

AIDOO KNX PANASONIC PACI (PAW-AZRC-KNX2-1 [AZAI6KNX2PN1])

Unidades ECO G

Diagnosis display	Abnormality / Protection control	Problem
A01	Engine oil pressure error	-
A02	Engine oil error	-
A03	Engine high-revolution error	-
A04	Engine low-revolution error	-
A05	Ignition source error	-
A06	Engine start failure	-
A07	Fuel gas valve error	-
A08	Engine stall	-
A10	Exhaust gas temperature high	-
A12	Throttle	Stepping motor failure
A14	Engine oil pressure switch	-
A15	Start power source output short circuit	-
A16	Starter lock	-
A17	CT error	Starter current detection failure
A19	Low coolant temperature	-
A20	High coolant temperature	-
A21	Coolant level error	-
A22	Coolant pump error	-
A23	Crankshaft angle sensor	-
A24	Camshaft angle sensor error	-
A25	Clutch error	-
A26	Flameout error	-
A27	Catalyst temperature error	-
A30	Low fuel gas pressure error	-
E01	Remote controller receive failure	-
E02	Remote controller transmission failure	-
E03	Indoor unit receive failure from remote controller (central)	-
E04	Indoor unit receive failure from outdoor unit	-
E05	Indoor unit transmission failure to outdoor unit	-
E06	Outdoor unit receive failure from indoor unit	-
E07	Outdoor unit transmission failure to indoor unit	-
E08	Duplicated indoor unit address setting	-
E09	Multiple main remote controller units set	-
E11	Indoor unit receive failure from signal output board	-
E12	Automatic address setting in progress	-
E13	Indoor unit transmission failure to remote controller	-
E15	Automatic address alarm (too few units)	-
E16	Automatic address alarm (too many units)	-
E18	Group control wiring communication failure	-
E20	No indoor unit in automatic address setting	-
E21	Outdoor main board failure	-
E22	Outdoor main board sensor error	-
E24	Communication failure between outdoor units	-
E26	Inconsistencies in number of outdoor units	-
E31	Communication failure between units	-
F01	Indoor heat exchanger inlet temperature sensor (E1)	-
F02	Water heat exchanger anti-freeze sensor (E2)	-

Diagnosis display	Abnormality / Protection control	Problem
F03	Water heat exchanger refrigerant outlet temperature sensor (E3)	-
F04	Compressor outlet temperature sensor	-
F06	Outdoor heat exchanger inlet temperature sensor / Outdoor heat exchanger 2 inlet temperature sensor (3WAY only)	-
F08	Outside air temperature sensor	-
F10	Indoor unit intake temperature sensor / Hot and cold water inlet sensor	-
F11	Indoor unit discharge temperature sensor / Hot and cold water outlet sensor	-
F12	Compressor inlet temperature sensor	-
F13	Coolant temperature sensor	-
F16	Compressor inlet / outlet pressure sensor error	-
F17	Hot water outlet temperature sensor	-
F18	Exhaust gas temperature sensor	-
F20	Clutch coil temperature sensor error	-
F21	Clutch coil 2 temperature sensor error	-
F29	Indoor nonvolatile memory (EEPROM) error	-
F31	Outdoor nonvolatile memory (EEPROM) error	-
H07	Compressor oil depletion error	-
L02	Inconsistencise in indoor / outdoor unit models	-
L03	Multiple main units set for group control	-
L04	Duplicate system (outdoor unit) address setting	-
L05	Duplicate indoor unit priority setting	-
L06	Duplicate indoor unit priority setting	-
L07	Group control wire present for individual-control indoor unit	-
L08	Indoor unit address not set	-
L09	Indoor unit capacity not set	-
L10	Outdoor unit capacity not set	-
L13	Indoor unit model type seeting failure	-
L15	Defective pairing of indoor units	-
L16	Faulty water heat exchanger unit parallel array addresses	-
L19	Duplicated water heat exchanger unit parallel arrays addresses	-
L21	Gas type setting failure	-
P01	Indoor fan error / Indoor unit fan rpm error	-
P03	High compressor discharge temperautre	-
P04	Refrigerant high-pressure switch operation	-
P05	Power source error	-
P09	Indoor unit ceiling panel connector connection failure	-
P10	Indoor unit float switch operation	-
P11	Indoor unit drain pump error / Water heat exchanger unit anti-icing sensor error	-
P12	Indoor DC fan error	-
P13	Refrigerant circuit error (W MULTI / Models with suction bypass valve (85kW type) / Refrigerant circuit error (3 Way))	-
P15	Complete refrigerant gas depletion	-
P18	Bypass valve error	-
P19	Four-Way valve lock error (no detected 3WAY MULTI)	-
P20	Refrigerant high-pressure error	-
P22	Outdoor unit fan error	-

Diagnosis display	Abnormality / Protection control	Problem
P23	Water heat exchanger unit interlock error (for only water heat exchanger unit)	-
P26	Clutch connection error	-
P30	Group control's sub unit error	-
P31	Group control error	-

Unidades ECOi EX 2 Way

Diagnosis display	Abnormality / Protection control	Problem
E06	Outdoor unit receiving failure from indoor unit	-
E12	Prohibit starting auto address setting	-
E15	Auto address alarm (a small number of indoor units)	-
E16	Auto address alarm (a large number of indoor units)	-
E20	No indoor unit during auto address setting	-
E21	Receiving failure of main system from sub system when link wiring is used for outdoor units	-
E22	Receiving failure of sub system from main system when link wiring is used for outdoor units	-
E24	Receiving failure of relay control unit from outdoor unit(s)	-
E25	Failure of outdoor unit address setting (duplicative)	-
E26	Inconsistencies in number of outdoor units	-
E29	Failure of outdoor unit to receive relay control unit	-
E30	Failure of transferring outdoor unit serial	-
E31	Wiring error between the P.C. board ([L-Pow], [HIC] wire)	-
F04	Compressor 1 discharge temperature sensor abnormal [DISCH1]	-
F05	Compressor 2 discharge temperature sensor abnormal [DISCH2]	-
F06	Outdoor unit heat exchanger 1 gas (inlet) temperature sensor abnormal [EXG1]	-
F07	Outdoor unit heat exchanger 1 liquid (outlet) temperature sensor abnormal [EXL1]	-
F08	Outdoor temperature sensor abnormal [TO]	-
F12	Compressor inlet temperature sensor abnormal [SCT]	-
F14	Supercooling gas temperature sensor abnormal [SCG]	-
F16	High pressure sensor abnormal, high-load [HPS]	-
F17	Low pressure sensor abnormal [LPS]	-
F23	Outdoor unit heat exchanger 2 gas (inlet) temperature sensor abnormal [EXG2]	-
F24	Outdoor unit heat exchanger 2 liquid (outlet) temperature sensor abnormal [EXL2]	-
F31	Outdoor unit nonvolatile memory (EEPROM) error	-
H01	Compressor 1 abnormal current values	Overcurrent
H03	Compressor 1 CT sensor disconnected, short-circuit	-
H05	Compressor 1 discharge temperature sensor disconnected	-
H06	Low pressure abnormal lowering	-
H07	Oil loss - error	-
H08	Oil sensor (connection) error 1	-
H11	Compressor 2 abnormal current values	Overcurrent
H13	Compressor 2 CT sensor disconnected, short-circuit	-
H15	Compressor 2 discharge temperature sensor disconnected	-
H21	Compressor 2 HIC alarm	-
H27	Oil sensor (connection) error 2	-
H31	Compressor 1 HIC alarm	-
L04	Outdoor unit address settings duplicated	-
L05	Indoor unit priority duplicated (for priority indoor)	-
L06	Indoor unit priority duplicated (not for priority indoor) and outdoor unit	-
L10	Outdoor unit capacity settings not made	-
L17	Inconsistencies in outdoor unit models	-

Diagnosis display	Abnormality / Protection control	Problem
L18	4-way valve coil disconnected, line disconnected	-
P03	Compressor 1 discharge temperature error	-
P04	Actuation of high pressure switch	-
P05	Compressor 1 open-phase detection	-
P11	Cooling water freeze	Chiller
P14	Actuation of O2 sensor	-
P15	Compressor 2 open-phase detection	-
P16	Compressor 1 secondary overcurrent	-
P17	Compressor 2 discharge temperature error	-
P19	Compressor 2 start failure	Compressor lock / Compressor wiring open-phase / DCCT failure
P20	High load	Forgot to open valves
P22	Outdoor unit fan1 failure	IPM damage / Overcurrent / Inverter failure / DC fan lock / Hole IC open-phase
P23	Inter lock not cancellation	Chiller
P24	Outdoor unit fan2 failure	IPM damage / Overcurrent / Inverter failure / DC fan lock / Hole IC open-phase
P26	Compressor 2 secondary overcurrent	-
P29	Compressor 1 start failure	Compressor lock / Compressor wiring open-phase / DCCT failure

Unidades ECOi EX 3 Way

Diagnosis display	Abnormality / Protection control	Problem
E06	Some indoor units does not respond to outdoor unit	-
E12	Auto address failed to start	-
E15	Fewer indoor units are found in auto addressing than the setting on outdoor PCB	-
E16	More indoor units are found in auto addressing than the setting on outdoor PCB	-
E20	No indoor unit responded in auto addressing	-
E24	No response from sub outdoor unit	-
E25	The outdoor unit address is duplicating	-
E26	The number of responding outdoor units does not match with the setting on the main outdoor unit	-
E29	No response from main outdoor unit	-
E31	Error in communication inside outdoor unit control box	-
F04	Compressor 1 discharge temperature sensor has failure (DISCH1)	-
F05	Compressor 2 discharge temperature sensor has failure (DISCH2)	-
F06	Outdoor unit heat exchanger 1 gas temperature sensor has failure (EXG1)	-
F07	Outdoor unit heat exchanger 1 liquid temperature sensor has failure (EXL1)	-
F08	Outdoor temperature sensor has failure (TO)	-
F12	Compressor inlet temperature sensor has failure (SCT)	-
F14	Subcooling heat exchanger temperature sensor has failure (SCG)	-
F16	High pressure sensor has failure (HPS)	-
F17	Low pressure sensor has failure (LPS)	-
F23	Outdoor unit heat exchanger 2 gas temperature sensor has failure (EXG2)	-
F24	Outdoor unit heat exchanger 2 liquid temperature sensor has failure (EXL2)	-
F31	EEPROM on outdoor unit PCB has failure	-
H01	Compressor 1 primary current is overcurrent	-
H03	Compressor 1 current sensor is disconnected or shorted	-
H05	Compressor 1 discharge temperature sensor is disconnected, shorted or misplaced	-
H06	Low pressure sensor value is too low	-
H07	Compressor or refrigerant circuit has low oil	-
H08	Compressor 1 oil temperature sensor has failure (OIL1)	-
H11	Compressor 2 primary current is overcurrent	-
H13	Compressor 2 current sensor is disconnected or shorted	-
H15	Compressor 2 discharge temperature sensor is disconnected, shorted or misplaced	-
H21	Compressor 2 HIC has failure	HIC is overcurrent or overheat / VDC is undervoltage
H27	Compressor 2 oil temperature sensor has failure (OIL2)	-
H31	Compressor 1 HIC has failure	HIC is overcurrent or overheat / VDC is undervoltage
L04	Duplicate system address setting on outdoor units	-
L10	Capacity setting of outdoor unit is not correct	-
L11	Incorrect wiring of remote group control wiring (in case of shared solenoid valve)	-
L17	Model mismatch between outdoor units	-
P03	Compressor 1 discharge temperature is too high	-
P04	High pressure switch is activated	-

Diagnosis display	Abnormality / Protection control	Problem
P05	Compressor 1 AC power supply has abnormal	-
P11	Cooling water freeze	-
P14	O2 sensor has activated	-
P15	Compressor 2 AC power supply has abnormal	-
P16	Compressor 1 secondary current is overcurrent	-
P17	Compressor 2 discharge temperature is too high	-
P19	Compressor 2 start failure	Compressor 2 is missing phase
P22	Outdoor unit fan motor has failure	-
P25	High pressure is out of compressor operating range	-
P26	Compressor 2 secondary current is overcurrent	-
P27	Low pressure is out of compressor operating range	-
P29	Compressor 1 start failure	Compressor 1 is missing phase

Unidades Mini ECOi

Diagnosis display	Abnormality / Protection control	Problem
C17	Indoor unit does not respond to central control equipment	-
E01	Indoor unit does not respond to remote controller	-
E02	Remote controller is having error in sending serial communication signal	-
E03	Remote controller does not respond to indoor unit	-
E04	Outdoor unit does not respond to indoor unit	-
E06	Some indoor units does not respond to outdoor unit	-
E08	Indoor unit address is duplicating	-
E09	Two or more remote controllers are set as main on R1-R2 link	-
E12	Auto address failed to start	-
E14	Two or more indoor units are set as main, in the group controlled indoor units	-
E15	Fewer indoor units are found in auto addressing than the setting on outdoor PCB	-
E16	More indoor units are found in auto addressing than the setting on outdoor PCB	-
E18	No response from sub indoor to the main indoor unit in group control wiring	-
E20	No indoor unit responded in auto addressing	-
E31	Error in communication inside outdoor unit control box	-
F01	Indoor unit heat exchanger liquid temperature sensor has failure (E1)	-
F02	Indoor unit heat exchanger temperature sensor has failure (E2)	-
F03	Indoor unit heat exchanger gas temperature sensor has failure (E3)	-
F04	Compressor discharge temperature sensor has failure (DISCH)	-
F06	Outdoor unit heat exchanger gas temperature sensor has failure (EXG)	-
F07	Outdoor unit heat exchanger liquid temperature sensor has failure (EXL)	-
F08	Outdoor temperature sensor has failure (TO)	-
F10	Indoor suction air (room) temperature sensor has failure (TA)	-
F11	Indoor discharge air temperature sensor has failure (BL)	-
F12	Compressor inlet temperature sensor has failure (SCT)	-
F14	Subcooling heat exchanger temperature sensor has failure (SCG)	-
F16	High pressure sensor has failure (HPS)	-
F17	Low pressure sensor has failure (LPS)	-
F29	EEPROM on indoor unit PCB has failure	-
F31	EEPROM on outdoor unit PCB has failure	-
H01	Compressor primary current is overcurrent	-
H02	PFC is overcurrent or VDC is overvoltage (single phase only)	-
H03	Compressor current sensor is disconnected or shorted	-
H05	Compressor discharge temperature sensor is disconnected, shorted or misplaced (DISCH)	-
H06	Low pressure sensor value is too low	-
H31	Compressor HIC has failure	HIC is overcurrent or overheat. VDC is undervoltage or overvoltage
L01	Indoor unit address setting has error	No main indoor unit in group control

Diagnosis display	Abnormality / Protection control	Problem
L02	Indoor unit model does not match with the outdoor unit model (multi-split/mini-split)	-
L03	Two or more indoor units are set as main in group control	-
L04	Duplicate system address setting on outdoor units	-
L05	Two or more indoor units are set as priority indoor unit (priority indoor unit)	-
L06	Two or more indoor units are set as priority indoor unit (non-priority indoor unit)	-
L07	Group control wiring is detected for indoor unit set as individual control	-
L08	Indoor unit address is not set	-
L09	Capacity setting of indoor unit is not correct	-
L10	Capacity setting of outdoor unit is not correct	-
L13	Indoor unit model does not match with outdoor unit	-
L17	Model mismatch between outdoor units	-
L18	4-way valve has failure	-
P01	Thermal protector for indoor unit fan motor is activated	-
P03	Compressor discharge temperature is too high	-
P04	High pressure switch is activated	-
P05	AC power supply has abnormal	-
P09	Connection to the panel of indoor unit is not good	-
P10	Float switch of drain pan safety is activated	-
P11	Drain pump failure or locked rotor	-
P12	Indoor unit fan inverter protection control is activated	-
P14	O2 sensor has activated	-
P16	Compressor secondary current is overcurrent	-
P20	Too high load in refrigerant circuit	-
P22	Outdoor unit fan motor has failure	-
P29	Compressor start failure	Compressor is missing phase or reverse phase
P31	Other indoor unit in group control has an alarm	-

Unidades Big PACi

Diagnosis display	Abnormality / Protection control	Problem
E01	Remote controller reception error	-
E02	Remote controller transmission error	-
E03	Error in indoor unit receiving signal from remote controller (central)	-
E04	Error in indoor unit receiving signal from the outdoor unit	-
E05	Error in indoor unit transmitting signal to the outdoor unit	-
E06	Outdoor unit failed to receive serial communication signals from indoor unit	-
E08	Duplicate indoor unit address settings error	-
E09	More than one remote controller set to main error	-
E12	Automatic address setting start is prohibited while auto-address setting in progress	-
E14	Main unit duplication in simultaneous-operation multi control	Detected outdoor unit
E15	Automatic address alarm	The total capacity of indoor units is too low
E16	Automatic address alarm	The total capacity of indoor units is too high or the total number of indoor units is too many
E18	Faulty communication in group control wiring	-
E20	Connection problem of indoor/outdoor units	-
F04	Compressor discharge temperature sensor (TD) trouble	-
F06	Inlet temperature sensor (C1) in heat exchanger trouble	-
F07	Intermediate temperature sensor (C2) in heat exchanger trouble	-
F08	Outdoor air temperature sensor (TO) trouble	-
F12	Compressor inlet suction temperature sensor (TS) trouble	-
F31	Outdoor unit nonvolatile memory (EEPROM) trouble	-
H01	Primary (input) overcurrent detected	-
H02	PAM trouble	-
H03	Primary current CT sensor (current sensor) failure	-
H31	HIC trouble	-
L04	Outdoor unit address duplication	-
L10	Outdoor unit capacity not set or invalid	-
L13	Indoor unit type setting error	-
L18	4-way valve operation failure	-
P03	Compressor discharge temperature trouble	-
P04	High pressure trouble	-
P05	AC power supply trouble	-
P13	Alarm valve open	-
P14	O2 sensor detect	-
P15	Insufficient gas level detected	-
P16	Compressor overcurrent trouble	-
P22	Outdoor unit fan motor trouble	-
P29	Lack of INV compressor wiring, INV compressor actuation failure (including locked), DCCT failure	-
P31	Group control error	-

Unidades PACi NX

Diagnosis display	Abnormality / Protection control	Abnormality judgement	Protection operation	Problem	Check location
E04	Indoor / Outdoor abnormal communication	After operation for 1 minute	Indoor fan only operation can start by entering into force cooling operation	Indoor / Outdoor communication not establish	· Indoor / Outdoor wire terminal · Indoor / Outdoor PCB · Indoor / Outdoor connection wire
F04	Compressor temperature sensor abnormality	Continuous for 5s	-	Compressor temperature sensor open or short circuit	· Compressor temperature sensor lead wire and connector
F06	Outdoor heat exchanger temperature sensor 1 abnormality	Continuous for 5s	-	Outdoor heat exchanger temperature sensor 1 open or short circuit	· Outdoor heat exchanger temperature sensor 1 lead wire and connector
F08	Outdoor air temperature sensor abnormality	Continuous for 5s	-	Outdoor air temperature sensor open or short circuit	· Outdoor air temperature sensor lead wire and connector
H01	Indoor high pressure protection	-	-	Indoor high pressure protection (Heating)	· Check indoor heat exchanger · Air filter dirty · Air circulation short circuit
H02	Power factor correction (PFC) circuit protection	4 times happen within 20 minutes	-	Power factor correction circuit abnormal	· Outdoor PCB faulty
H03	Outdoor current transformer (CT) abnormality	-	-	Current transformer faulty or compressor faulty	· Outdoor PCB faulty or compressor faulty
L18	4-way valve switching abnormality	4 times happen within 30 minutes	-	4-way valve switching abnormal	· 4-way valve · Lead wire and connector
P03	Compressor overheating protection	4 times happen within 20 minutes	-	Compressor overheat	· Insufficient refrigerant
P04	Outdoor cooling high pressure protection	4 times happen within 20 minutes	-	Cooling high pressure protection	· Check refrigeration system · Outdoor air circuit
P05	Indoor / Outdoor misconnection abnormality	-	-	Indoor and outdoor rated voltage different	· Indoor and outdoor units check
P07	Power transistor module overheating protection	4 times happen within 30 minutes	-	Power transistor module overheat	· PCB faulty · Outdoor air circuit (fan motor)
P15	Refrigeration cycle abnormality	2 times happen within 20 minutes	-	Refrigeration cycle abnormal	· Insufficient refrigerant or valve close
P16	Outdoor direct current (DC) peak detection	Continuous happen for 7 times	-	Power transistor module current protection	· Power transistor module faulty or compressor lock
P22	Outdoor fan motor mechanism lock	2 times happen within 20 minutes	-	Outdoor fan motor lock or feedback abnormal	· Outdoor fan motor lead wire and connector · Fan motor lock or block
P29	Compressor abnormal revolution	4 times happen within 20 minutes	-	Compressor abnormal revolution	· Power transistor module faulty or compressor lock

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