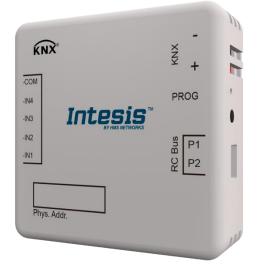


Gateway for integration of Daikin air conditioners into KNX TP-1 (EIB) control systems

Compatible with VRV and Sky line air conditioners commercialized by Daikin Application's Program Version: 2.1

USER MANUAL

Issue date: 03/2020 r1.2 ENGLISH





Important User Information

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Gateway for integration of Daikin air conditioners into KNX TP-1 (EIB) control systems. Compatible with VRV and SKY line air conditioners commercialized by Daikin.

Application's Program Version: 2.1

ORDER CODE	LEGACY ORDER CODE
INKNXDAI001R100	DK-RC-KNX-1i



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1. Presentation

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		§ <u>P2</u>

INKNXDAI001R100 allows a complete and natural integration of DAIKIN air conditioners with KNX control systems.

Compatible with all SKY Air and VRV models commercialized by DAIKIN.

Main features:

- Reduced dimensions, quick installation.
- Direct connection to P1/P2 bus, the bus that connects the AC indoor unit and the wired remote controller.
- Multiple objects for control and status (bit, byte, characters...) with KNX standard datapoint types.
- Status objects for every control available.
- Special Modes available (Power, Economy, Additional Heating and Additional Cooling).
- Timeout for Open Window and Occupancy. Sleep function also available.
- Control of the AC unit based in the ambient temperature read by the own AC unit, or in the ambient temperature read by any KNX thermostat.
- Total Control and Monitoring of the AC unit from KNX, including monitoring of AC unit's state of internal variables, running hours counter (for filter maintenance control), and error indication and error code.
- AC unit can be controlled simultaneously by the remote controller of the AC unit and by KNX.
- Up to 5 scenes can be saved and executed from KNX, fixing the desired combination of Operation Mode, Set Temperature, Fan Speed, Vane Position and Remote Controller Lock in any moment by using a simple switching.
- Four potential-free binary inputs provide the possibility to integrate many types of external devices. Also configurable from ETS, they can be used for switching, dimming, shutter/blind control, and more



2. Connection

Connection of the INKNXDAI001R100 to the AC indoor unit

2.1. INKNXDAI001R100 without DAIKIN Remote Controller

The INKNXDAI001R100 can be connected directly to the P1/P2 bus of the indoor unit (no Daikin remote controller -RC from now on- also connected in the P1 P2 bus). If this is the case, INKNXDAI001R100 must be configured as master (using the ETS software), see connection diagram below.

2.2. INKNXDAI001R100 with DAIKIN Remote Controller

If a Daikin remote controller (RC) is present and connected to the P1/P2 bus, there are two configuration options:

- If we want to use the RC as master, its PCB switch must be set at "M" position and the INKNXDAI001R100 must be configured as slave.
- If we want to use the RC as slave, its PCB switch must be set at "S" position and the INKNXDAI001R100 must be configured as master.

Check compatible Daikin remote controllers in the link provided in section 6.

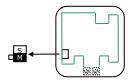


Figure 2.1 Daikin RC PCB backside, MAIN/SUB switch

Special mention must be made with the use of Daikin's IR wireless remote controllers, in this case Daikin's IR must be slave and the INKNXDAI001R100 must be master, otherwise not all the features will be available from KNX.

Disconnect mains power from the AC unit and use a 2-wire cable with a diameter of 0.75mm² to 1.25mm² for the connection of INKNXDAI001R100, Daikin's remote controller and its corresponding indoor unit. Screw the suitably peeled cable ends in the corresponding P1/P2 terminals of each device, as summarized in the **Figure 2.2**.

Maximum P1/P2 bus length is 500 meters. DAIKIN RC and INKNXDAI001R100 are polarity insensitive.

Connection of the INKNXDAI001R100 to the KNX bus:

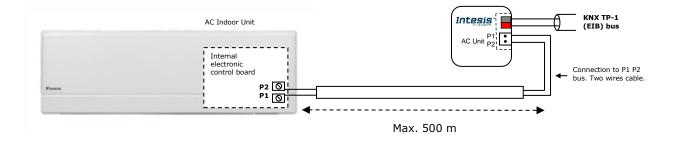
Disconnect power of the KNX bus. Connect the INKNXDAI001R100 to the KNX TP-1 (EIB) bus using the KNX standard connector (red/grey) of the INKNXDAI001R100, respect polarity.

Reconnect power of the KNX bus, and mains power of the AC unit.



Connections diagrams:

INKNXDAI001R100 without DAIKIN RC



INKNXDAI001R100 with DAIKIN RC

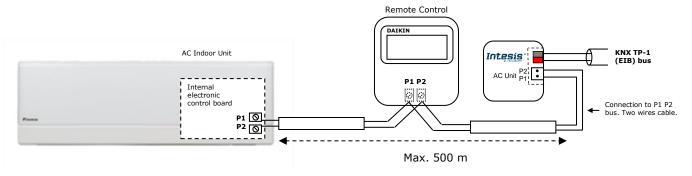


Figure 2.2 Connections diagrams



3. Configuration and setup

This is a fully compatible KNX device which must be configured and setup using standard KNX tool ETS.

ETS database for this device can be downloaded from:

https://intesis.com/products/ac-interfaces/daikin-gateways/daikin-knx-vrv-dk-rc-knx-1

Please consult the README.txt file, located inside the downloaded zip file, to find instructions on how to install the database.

IMPORTANT: Do not forget to select the correct settings of AC indoor unit being connected to the INKNXDAI001R100 (Fan speed and Vane), this is in "Parameters" of the device in ETS.



4. ETS Parameters

When imported to the ETS software for the first time, the gateway shows the following default parameter configuration:

General	Download latest database entry for this product and its User Manual from:	http://www.intesisbox.com
Mode Configuration	DK-RC-KNX-1 is master in P1/P2 bus (If set to "yes", BRC must be SLAVE)	🗌 Yes 🔘 No
Special Modes Configuration	Send READs for Control_ objects on bus recovery (T & U flags must be active)	🔿 Yes 🔘 No
Fan Speed Configuration	Scene to load on bus recovery / startup (needs to define vals for that scene)	(none)
Vanes Up-Down Configuration	Disallow control from remote controller	Ves 🔘 No
Temperature Configuration	> Enable "Lock Remote" objects	🔿 Yes 🔘 No
Scene Configuration	Enable func "Lock Control Obj"	Ves 🔘 No
Switch-Off Timeouts Configura	Enable func "Operating Hours Counter"	Ves No
Binary Input 1 Configuration	Enable "Error Code" object	Ves 🔘 No
Binary Input 2 Configuration	Enable "Error Text" object	O Yes O No
Binary Input 3 Configuration		
Binary Input 4 Configuration		

Figure 4.1 Default parameter configuration

With this configuration it's possible to send On/Off (*Control_ On/Off*), change the AC Mode (*Control_ Mode*), the Fan Speed (*Control_ Fan Speed*) and also the Setpoint Temperature (*Control_ Setpoint Temperature*). The Status_ objects, for the mentioned Control_ objects, are also available to use if needed. Also objects *Status_ AC Reference Temp*, *Status_ Error/Alarm* and *Status_Error Text Code* are shown.

- Interface, 4 binary inputs
 - ■↓ 0: Control_ On/Off [DPT_1.001] 0-Off;1-On
 - 1: Control_ Mode [DPT_20.105] 0-Aut;1-Hea;3-Coo;9-Fan;14-Dry
 - 11: Control_ Fan Speed / 2 Speeds [DPT_5.001] Threshold: 75%
 - ■
 Z5: Control_ Setpoint Temperature [DPT_9.001] °C
 - 53: Status_ On/Off [DPT_1.001] 0-Off;1-On
 - 54: Status_ Mode [DPT_20.105] 0-Aut;1-Hea;3-Coo;9-Fan;14-Dry
 - 62: Status_ Fan Speed / 2 Speeds [DPT_5.001] 50% and 100%
 - ■2 76: Status_ AC Setpoint Temperature [DPT_9.001] °C
 - 77: Status_ AC Reference Temperature [DPT_9.001] °C
 - 78: Status_ Error/Alarm [DPT_1.005] 0-No alarm;1-Alarm
 - 80: Status_ Error Text [DPT_16.001] Error Text

Figure 4.2 Default communication objects

4.1. General dialog

Inside this parameter's dialog it is possible to activate or change the parameters shown in the **Figure 4.1**.



The first field shows the URL where to download the database (or pr3) and the user manual for the product.

4.1.1. INKNXDAI001R100 is master in P1/P2 bus

This parameter changes the gateway's behavior, being able to program it as master or slave in P1 P2 bus.

- If set to "**no**", the gateway will work as a slave and it will be necessary to have a BRC remote controller configured as a master.
- If set to "yes" the gateway will be master of the bus. It is not necessary to have any BRC remote controller in this case but, if there are, they must be configured as slaves. The next parameter is also shown when selecting INKNXDAI001R100 as master in P1 P2 bus:

DK-RC-KNX-1 is master in P1/P2 bus (If set	Yes 🔹
to "yes", BRC must be SLAVE)	
Figure 4.3 Parameter detail	

> If VRV system, indoor unit is slave of Operating Mode:

VRV indoor units can be configured as master or slave of Operating Mode.

If *configured as slave* = "**yes**", the unit will take the operating mode of the master indoor unit in the system (i.e. if master unit is in Heat mode, slaves will be also in Heat mode).

If *configured as slave* = "**no**", it means is the master unit, then the unit will take the operating mode selected through the BRC or INKNXDAI001R100, and the other slave indoor units will adopt this operating mode.

▲ **Important:** Only ONE indoor unit can be configured as master of operating mode. If more than one indoor unit is configured as master, the system will not work properly.

There are some compatible Operation Modes that slave indoor units can use while the master indoor unit is operating in another one:

MASTER INDOOR UNIT	SLAVE INDOOR UNIT(s)
Heat	Heat, Fan
Cool	Cool, Dry, Fan
Dry	Dry, Cool, Fan
Fan	Fan

Table 4.1 Operating Mode compatibility

4.1.2. Send READs for Control_ objects on bus recovery

When this parameter is enabled, INKNXDAI001R100 will send READ telegrams for the group addresses associated on its *Control_* objects on bus recovery or application reset/start-up.

- If set to **"no"** the gateway will not perform any action.
- If set to "yes" all Control_ objects with both Transmit (T) and Update (U) flags enabled will send READs and their values will be updated with the response when received.



Send READs for Control_ objects on bus recovery (T and U flags must be active)	yes	
> Delay before sending READs (sec)	30)

Figure 4.4 Parameter detail

Delay before sending READs (sec):

With this parameter, a delay can be configured between 0 and 30 seconds for the READs sent by the *Control_* objects. This is to give time enough to other KNX devices on the bus to start-up before sending the READs.

4.1.3. Scene to load on bus recovery / start-up

This parameter executes a selected scene on bus recovery or startup, only if the selected scene has an enabled preset or values previously saved from KNX bus (see Scene Configuration dialog).

If the gateway is disconnected from the indoor unit (P1 & P2 bus not connected) the scene will not be applied, even when connecting to the indoor unit again.

Scene to load on bus recovery / startup	scene 2 🔹
(needs to define vals for that scene)	
Figure 4.5 Par	ameter detail

4.1.4. Disallow control from remote controller

This parameter allows:

- 1- Having the remote controller always locked, or
- 2- Decide through a new communication object if the RC is locked or not.
- If set to **"yes"** all the actions performed through the remote controller will be disabled.
- If set to **"no"** the remote controller will work as usually. It also appears a new parameter and the communication object *Control_ Lock Remote Control*.

	■2 31	Control_L	ock Remote Control [DPT_1.002]	
Disallow	control from remote	controller	no	
> Enable comm obj "Ctrl_ Remote Lock"		emote Lock"	yes 🔹	
	Figure 4.6 Co	ommunicat	ion object and parameter detail	

Enable comm obj "Ctrl Remote Lock":

If set to "no" the object will not be shown.

If set to "yes" the Control_ Lock Remote Control object will appear.

- When a "1" value is sent to this communication object, the remote controller is locked. To be unlocked a "0" value must be sent. The gateway remembers the last value received even if a KNX bus reset/failure happens.
- ▲ **Important:** If an initial scene is enabled and it has as Value for Remote Lock (unchanged) or unlocked, this would unlock the remote controller because the initial scene has priority over the Control_ Lock Remote Control communication object.



4.1.5. Enable func "Control_ Lock Control Obj"

This parameter shows/hide the *Control_ Lock Control Obj* communication object which, depending on the sent value, locks or unlocks ALL the *Control_* communication objects except itself.

■ 2 Control_ Lock Control Objects [DPT_1.002]

- If set to **"no"** the object will not be shown.
- If set to "yes" the Control_ Lock Control Objects object will appear.
 - When a "1" value is sent to this communication object, all the *Control_* objects will be locked. To unlock a "0" value must be sent, as the gateway remembers the last value received even if a KNX bus reset/failure happens.

4.1.6. Enable func "Operating Hours Counter"

This parameter shows/hides the following objects which counts the number of operating hours/seconds for the INKNXDAI001R100:

■‡ 87	Status_ Operation Hour Counter [DPT_7.001]
■2 88	Status_ Operation Second Counter [DPT_13.100]

- If set to **"no"** the object will not be shown.
- If set to **"yes"** these objects will appear.
 - Status_ Operation Hour Counter and Status_ Operation Second Counter can be read and send their values every time an hour is counted. The gateway keeps that count in memory and the status is sent also after a KNX bus reset/failure. Although this object is marked as a *Status_* object it also can be written to update the counter when needed. It is possible to reset counter written a "**0**" value.
- △ **Important:** This object comes by default without the write **(W)** flag activated. If is necessary to write on it, this flag must be activated.
- △ **Important:** This object will also return its status, every time a value is written, only if it's different from the existing one.
- △ **Important:** If the stored value is 0 hours, the gateway will not send the status to KNX.

4.1.7. Enable "Error Code" object

This parameter shows/hides the *Status_ Error Code [2byte]* communication object which shows the indoor unit errors, if occurred, in numeric format.

■ 79 Status_ Error Code [2byte]

- If set to **"no"** the object will not be shown.
- If set to "yes" the *Status_ Error Code [2byte]* object will appear.
 - This object can be read and sends the indoor unit error, if occurred, in numeric format. If a "**0**" value is shown that means no error.



4.1.8. Enable "Error Text" object

This parameter shows/hides the *Status_ Error Text* communication object which shows the indoor unit errors, if occurred, in text format.

■2 80 Status_ Error Text [DPT_16.001]

- If set to **"no"** the object will not be shown.
- If set to "yes" the Status_ Error Text object will appear.
 - This object can be read and sends the indoor unit error, if occurred, in text format. The errors shown have the same format as at the remote controller and at the error list from the indoor unit manufacturer. If the object's value is empty that means no error.

4.2. Mode Configuration dialog

De	vice: 1.1.1 DK RC interface, 4 binary i	nputs	
	General	When mode is AUTO Status_ objs report	No
	Mode Configuration	actual operating status (HEAT/COOL/)	•
	Special Modes Configuration		
	Fan Speed Configuration	Enable "Mode Cool/Heat" objects	No
	Vanes Up-Down Configuration	(for Control and Status)	
	Temperature Configuration	Enable PID-Compat. Scaling Mode objects	No
	Scene Configuration	(for Control)	
	Switch-Off Timeouts Configuration	on Enable use of +/- object for Mode Enable use of bit-type Mode objects	No
	Binary Input 1 Configuration		
	Binary Input 2 Configuration		No
	Binary Input 3 Configuration	(for Control)	
	Binary Input 4 Configuration	Enable use of bit-type Mode objects	No
		(for Status)	
		Enable use of Text object for Mode	No
		,	
		Enable use of Legacy_ object for Mode	No
		(compatible with old vers of XXACKNX1)	

Figure 4.7 Default Mode Configuration dialog

All the parameters in this section are related with the different mode properties and communication objects.

■之1: Control_ Mode [DPT_20.105 - 1byte] - 0-Aut;1-Hea;3-Coo;9-Fan;14-Dry

The byte-type communication object for Mode works with the DTP_20.105. Auto mode will be enabled with a "**0**" value, Heat mode with a "**1**" value, Cool mode with a "**3**" value, Fan mode with a "**9**" value and Dry mode with a "**14**" value.

4.2.1. When mode is AUTO Status_ objects report actual operating status

This parameter shows the real status of the indoor unit when Auto mode is enabled.

- If set to **"no"**, when the indoor unit is set to Auto mode, all the *Status*_ objects concerning mode will only show Auto enabled.
- If set to "yes", when the indoor unit is set to Auto mode, all the *Status* objects concerning mode will show the real mode which the machine is working (Cool, Heat, Dry, Fan). In case of the bitfield objects, also the *Status Mode Auto* will be shown enabled with a "1" value.



4.2.2. Enable use of Heat / Cool bit-type obj

This parameter shows/hides the *Control_* and *Status_ Mode Cool/Heat* communication objects.

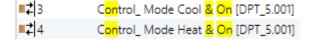
 ■2
 Control_ Mode Cool/Heat [DPT_1.100]

 ■2
 Status_ Mode Cool/Heat [DPT_1.100]

- If set to **"no"** the objects will not be shown.
- If set to "**yes**" the *Control_* and *Status_ Mode Cool/Heat* objects will appear.
 - When a "1" value is sent to the *Control*_ communication object, **Heat mode** will be enabled in the indoor unit, and the *Status*_ object will return this value.
 - When a **"0**" value is sent to the *Control*_ communication object, **Cool mode** will be enabled in the indoor unit, and the *Status*_ object will return this value.

4.2.3. Enable PID-Compat. Scaling Mode Objects

This parameter shows/hides the *Control_ Mode Cool & On* and *Control_ Mode Heat & On* communication objects.



- If set to **"no"** the objects will not be shown.
- If set to **"yes"** the *Control_ Mode Cool & On* and *Control_ Mode Heat & On* objects will appear.
 - These objects provide compatibility with those KNX thermostats that control the demand of heating or cooling by using scaling (percentage) objects. In these thermostats, the percentage demand is meant to be applied on a fluid valve of the heating / cooling system.
 - INKNXDAI001R100 device does not provide individual control on the internal parts of the indoor unit (as can be its compressor, refrigerant valves, etc). Rather, it provides the same level of control as a (user) remote controller.
 - Objects "Control_ Mode Cool & On" and "Control_ Mode Heat & On" intend to bring compatibility between thermostats oriented to the control of custom heating / cooling systems and ready-made AC indoor units, by applying the following logic:
 - Whenever a non-zero value (>0%) is received at "Control_ Mode Cool & On", indoor unit will switch On in COOL mode.
 - Whenever a non-zero value (>0%) is received at "Control_ Mode Heat & On", indoor unit will switch On in HEAT mode.
 - Lastest updated object will define the operating mode
 - Indoor unit will switch off only when both objects become zero (0%) or when an OFF is requested at object "0. On/Off [DPT_1.001 - 1bit]"
- ▲ **Important:** These objects function is only to send On/Off and Cool/Heat to the indoor unit. The PID (Inverter system) is calculated by the indoor unit itself. Please consider



introducing an appropriate PID configuration to the external KNX thermostat to not interfere the indoor unit PID.

4.2.4. Enable use of + / - object for Mode

This parameter shows/hides the *Control_ Mode* +/- communication object which lets change the indoor unit mode by using two different datapoint types.

■之10 Control_ Mode +/- [DPT_1.008]

- If set to **"no"** the object will not be shown.
- If set to **"yes"** the *Control_ Mode* +/- object and a new parameter will appear.

Enable use of +/- object for Mode	yes 🔹
> DPT type for +/- Mode Object	0-Up / 1-Down [DPT_1.008]
Figure 4.8 Parameter detail	

DPT type for +/- Mode Object

This parameter lets choose between the datapoints **0-Up / 1-Down [DPT_1.008]** and **0-Decrease / 1-Increase [DPT_1.007]** for the *Control_ Mode +/-* object.

The sequence followed when using this object is shown below:

- Up / Increase
- Down / Decrease

4.2.5. Enable use of bit-type Mode objects (for control)

This parameter shows/hides the bit-type *Control_ Mode* objects.

I = 2 | 5: Control_ Mode Auto [DPT_1.002 - 1bit] - 1-Set AUTO operating mode
I = 2 | 6: Control_ Mode Heat [DPT_1.002 - 1bit] - 1-Set HEAT operating mode
I = 2 | 7: Control_ Mode Cool [DPT_1.002 - 1bit] - 1-Set COOL operating mode
I = 2 | 8: Control_ Mode Fan [DPT_1.002 - 1bit] - 1-Set FAN operating mode
I = 2 | 9: Control_ Mode Dry [DPT_1.002 - 1bit] - 1-Set DRY operating mode

- \circ If set to "**no**" the objects will not be shown.
- If set to "yes" the Control_ Mode objects for Auto, Heat, Cool, Fan and Dry will appear.
 To activate a mode by using these objects a "1" value has to be sent.

4.2.6. Enable use of bit-type Mode objects (for status)

This parameter shows/hides the bit-type *Status_ Mode* objects.



■2 56	Status_ Mode Auto [DPT_1.002]
■2 57	Status_ Mode Heat [DPT_1.002]
■2 58	Status_ Mode Cool [DPT_1.002]
■\$ 59	Status_ Mode Fan [DPT_1.002]
■2 60	Status_ Mode Dry [DPT_1.002]

- If set to **"no"** the objects will not be shown.
- If set to "yes" the Status_ Mode objects for Auto, Heat, Cool, Fan and Dry will appear.
 When enabled, a mode will return a "1" through its bit-type object.

4.2.7. Enable use of Text object for Mode

This parameter shows/hides the *Status_ Mode Text* communication object.

■ 61 Status_ Mode Text [DPT_16.001]

- If set to "**no**" the object will not be shown.
- If set to "yes" the Status_ Mode Text object will appear. Also, in the parameters, will be shown five text fields, one for each mode, that will let modify the text string displayed by the Status_ Mode Text when changing mode.

> String when mode is HEAT	HEAT	
> String when mode is COOL > String when mode is FAN	FAN	
> String when mode is DRY	DRY	
Figure 4.9 Parameter detail		

4.2.8. Enable use of Legacy_ object for Mode

This parameter shows/hides the *Legacy_ Mode* communication object.

■ PO Legacy_ Mode [Enumerated]

- If set to **"no"** the object will not be shown.
- If set to **"yes"** the *Legacy_ Mode* object will appear. This object lets change the indoor unit mode but it uses a different data type. It is used to maintain compatibility with old gateway models.

Auto mode will be enabled with a "**0**" value, Heat mode with a "**1**" value, Dry mode with a "**2**" value, Fan mode with a "**3**" value and Cool mode with a "**4**" value



4.3. Special Modes Configuration dialog

)6	vice: 1.1.1 DK RC interface, 4 binary i	nputs	
	General Mode Configuration	Enable use of POWER mode	No
	Special Modes Configuration	Enable use of ECONOMY mode	No
	Fan Speed Configuration		
	Vanes Up-Down Configuration	Enable use of ADDITIONAL HEATING mode	No
	Temperature Configuration		
	Scene Configuration	Enable use of ADDITIONAL COOLING mode	No
	Switch-Off Timeouts Configuration		
	Binary Input 1 Configuration		
	Binary Input 2 Configuration		
	Binary Input 3 Configuration		
	Binary Input 4 Configuration		

Figure 4.10 Default Special Modes Configuration dialog

The Special Modes can be parameterized through the ETS parameters dialog, and they can be used to give extra functionality.

- △ **Important:** When executing any of the Special Modes, the real state of the indoor unit will NOT be shown in KNX.
- ▲ **Important:** When the predefined time for the Special Mode is finished or a "**0**" value is sent to stop it. The previous state will be recovered.
- ▲ **Important:** If a value concerning On/Off, Mode, Fan Speed or Setpoint Temperature is received from KNX while any Special Mode is running (**"1"**), the Special Mode will stop and the previous state will be recovered. The value received will be also applied then.
- ▲ **Important:** If a value concerning On/Off, Mode, Fan Speed or Setpoint Temperature is modified through the remote controller, the Special Mode will stop WITHOUT recovering the previous state. Then the real indoor unit state will be shown in KNX including the new value received through the remote controller.

4.3.1. Enable use of POWER mode

This parameter shows/hides the *Control_ Start Power Mode* and *Status_ Power Mode* communication objects. The Power Mode lets change the Setpoint Temperature and the Fan Speed within a given period.

■‡ 33	Control_ Power Mode [DPT_1.010]
■‡ 83	Status_ Power Mode [DPT_1.001]

- If set to "**no**" the objects will not be shown.
- If set to "yes" the Control_ Start Power Mode and Status_ Power Mode objects and new parameters will appear.

Enable use of POWER mode	yes 🔹
> Action time for this mode (minutes) (0 = permanent / unlimited)	2
 > Setpoint delta increase (HEAT) or decrease (COOL) - in Celsius 	2.0°C •
> Fanspeed for this mode	SPEED 3 (if avail.)

Figure 4.11 Parameter detail

• When a "1" value is sent to the *Control_* communication object Power Mode will be enabled, and the *Status_* object will return this value.



- When a **"0**" value is sent to the *Control*_ communication object, Power Mode will be disabled, and the *Status*_ object will return this value.
- △ **Important:** This mode will ONLY work if the indoor unit is both turned on and Heat, Cool, Auto-Heat or Auto-Cool Mode.
- Action time for this mode (minutes):

Duration of Power Mode, in minutes, once started.

> <u>Setpoint delta increase (HEAT) or decrease (COOL) – in Celsius:</u>

Number of degrees Celsius that will increase in Heat Mode, or decrease in Cool Mode, while in Power Mode.

> Fan Speed for this mode:

Fan Speed that will be set in the unit while in Power Mode.

4.3.2. Enable use of ECONOMY mode

This parameter shows/hides the *Control_ Start Econo Mode* and *Status_ Econo Mode* communication objects. The Econo Mode lets change the Setpoint Temperature and the Fan Speed within a given period.

■2 34	Control_ <mark>Econo</mark> Mode [DPT_1.010]
■2 84	Status_ <mark>Econo</mark> Mode [DPT_1.001]

- If set to **"no"** the objects will not be shown.
- If set to "yes" the Control_ Start Econo Mode and Status_ Econo Mode objects and new parameters will appear.
 - When a **"1**" value is sent to the *Control*_ communication object, EconoMode will be enabled, and the *Status*_ object will return this value.
 - When a "**0**" value is sent to the *Control*_ communication object, EconoMode will be disabled, and the *Status*_ object will return this value.
 - ▲ **Important:** This mode will ONLY work if the indoor unit is both turned on and, in a Heat, Cool, Auto-Heat or Auto-Cool Mode.
- > <u>Action time for this mode (minutes):</u>

Duration of EconoMode, in minutes, once started.

> <u>Setpoint delta increase (HEAT) or decrease (COOL) – in Celsius:</u>

Number of degrees Celsius that will increase in Heat Mode, or decrease in Cool Mode, while in EconoMode.

> Fan Speed for this mode:

Fan Speed that will be set in the unit while in EconoMode.



4.3.3. Enable use of ADDITIONAL HEATING mode

This parameter shows/hides the *Control_ Start Additional Heat Mode* and *Status_ Additional Heat Mode* communication objects. The Additional Heating Mode lets change the Setpoint Temperature and the Fan Speed within a given period.

■2 35	Control_ Additional Heat [DPT_1.010]
■2 85	Status_ Additional Heat [DPT_1.001]

- $\circ~$ If set to ``no" the objects will not be shown.
- If set to "yes" the Control_ Start Additional Heat Mode and Status_ Additional Heat Mode objects and new parameters will appear.
 - When a **"1**" value is sent to the *Control*_ communication object, Additional Heating Mode will be enabled, and the *Status*_ object will return this value.
 - When a **"O**" value is sent to the *Control*_ communication object, Additional Heating Mode will be disabled, and the *Status*_ object will return this value.
 - △ **Important:** This mode will ALWAYS turn on the indoor unit in Heat mode.
- Action time for this mode (minutes):

Duration of Additional Heating Mode, in minutes, once started.

Setpoint temp for this mode (°C):

Setpoint temperature that will be applied while in Additional Heating Mode.

Fan Speed for this mode:

Fan Speed that will be set in the unit while in Additional Heating Mode.

4.3.4. Enable use of ADDITIONAL COOLING mode

This parameter shows/hides the *Control_ Start Additional Cool Mode* and *Status_ Additional Cool Mode* communication objects. The Additional Heating Mode lets change the Setpoint Temperature and the Fan Speed within a given period.

■2 36	Control_	Additiona	al Coo	[DPT_1.010]
■2 86	Status_ <mark>/</mark>	Additional	Cool	[DPT_1.001]

- If set to **"no"** the objects will not be shown.
- If set to "yes" the Control_ Start Additional Cool Mode and Status_ Additional Cool Mode objects and new parameters will appear.
 - When a "1" value is sent to the *Control_* communication object, Additional Cooling Mode will be enabled, and the *Status_* object will return this value.
 - When a **"O**" value is sent to the *Control*_ communication object, Additional Cooling Mode will be disabled, and the *Status*_ object will return this value.
 - △ **Important:** This mode will ALWAYS turn on the indoor unit in Cool mode.
- Action time for this mode (minutes):

Duration of Additional Cooling Mode, in minutes, once started.

Setpoint temp for this mode (°C):

Setpoint temperature that will be applied while in Additional Cooling Mode.

> Fan Speed for this mode:

Fan Speed that will be set in the unit while in Additional Cooling Mode.

4.4. Fan Speed Configuration dialog

1 DK RC interface, 4 binary in	puts > Fan Speed Configuration	
General	Available fanspeeds in Indoor Unit (see docum. for your indoor unit)	◎ 2 ○ 3
Mode Configuration	Indoor unit has AUTO fan speed (see docum. for your indoor unit)	Ves No
Special Modes Configuration	DPT object type for fanspeed	Scaling [DPT_5.001] Enumerated [DPT_5.010]
Fan Speed Configuration		
	Enable use of +/- object for Fan Speed	🔵 Yes 🔘 No
Vanes Up-Down Configuration	Enable use of bit-type Fan Speed objects (for Control)	Ves No
Temperature Configuration	Enable use of bit-type Fan Speed objects	Ves No
Scene Configuration	(for Status)	Vies Vino
	Enable use of Text object for Fan Speed	🔵 Yes 🔘 No
Switch-Off Timeouts Configura	Enable use of Legacy_ obj for Fan Speed (compatible with old ver of XXACKNX1)	Ves No
Binary Input 1 Configuration	(
Binary Input 2 Configuration		
Binary Input 3 Configuration		
Binary Input 4 Configuration		

Figure 4.12 Default Fan Speed Configuration dialog

All the parameters in this section are related with the Fan Speed properties and communication objects.

4.4.1. Available fan speeds in Indoor Unit

This parameter lets you choose how many fan speeds are available in the indoor unit (2 or 3 speeds available).

Available fanspeeds in Indoor Unit (see docum. for your indoor unit)	3 🔹	

Figure 4.13 Parameter detail

Changing the fan speeds will also change the fan speed byte-type object (and the bit-type objects) erasing all the group addresses associated.

△ **Important:** Read the documentation of your indoor unit to check how many fan speeds are available.

4.4.2. AUTO fan speed available in Indoor Unit

This parameter lets you enable AUTO fan speed in case this function is available in the indoor unit.

Indoor unit has AUTO fan speed (see docum. for your indoor unit) Figure 4.14 Parameter detail

By setting "YES" in this parameter, the following parameter will appear:

Enable "Fan Speed Man/Auto" objects (for Control and Status)

Figure 4.15 Parameter detail

By setting yes in this new parameter, two new objects will be showed. These parameters allow us to control and get the status for AUTO FAN function.

■2 12	Control_ Fan Speed Auto [DPT_1.002]
■2 63	Status_ Fan Speed <mark>Auto</mark> [DPT_1.002]

▲ **Important:** Read the documentation of your indoor unit to check if AUTO fan speed function is available.

4.4.3. DPT object type for fanspeed

With this parameter is possible to change de DPT for the *Control_ Fan Speed* and *Status_ Fan Speed* byte-type communication objects. Datapoints Scaling (DPT_5.001) and Enumerated (DPT_5.010) can be selected.

 When "Enumerated [DPT 5.010]" is selected, Control_ Fan Speed and Status_ Fan Speed communication objects for this DPT will appear. Also, depending on the number of fan speeds selected, these objects will be different.

If this DPT is selected with 2 fan speeds:

 Image: Control_ Fan Speed / 2 Speeds [DPT_5.010]

 Image: Control_ Fan Speed / 2 Speeds [DPT_5.010]

 Image: Control_ Fan Speed / 2 Speeds [DPT_5.010]

The first fan speed will be selected if a **"1**" is sent to the *Control*_ object. The second fan speed will be selected sending a **"2**".

The *Status*_ object will always return the value for the fan speed selected. If this DPT is selected with 3 fan speeds:

 ■↓
 Control_ Fan Speed / 3 Speeds [DPT_5.010]

 ■↓
 62
 Status_ Fan Speed / 3 Speeds [DPT_5.010]

The first fan speed will be selected if a "1" is sent to the *Control* object. The second one will be selected sending a "2", and the last one sending a "3".

The *Status*_ object will always return the value for the fan speed selected.

- ▲ **Important:** In both cases if a "**0**" value is sent to the Control_ object, the minimum fan speed will be selected. If a value bigger than "**2**" (in case of 2 speeds) or bigger than "**3**" (in case of 3 fan speeds) is sent to the Control_ object, then the maximum fan speed will be selected.
- When **"Scaling [DPT 5.001]"** is selected, *Control_ Fan Speed* and *Status_ Fan Speed* communication objects for this DPT will appear. Also, depending on the number of fan speeds selected, these objects will be different.



If this DPT is selected with 2 fan speeds:

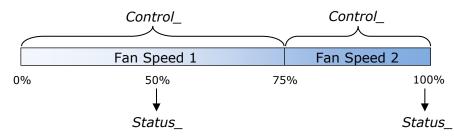
 Control_ Fan Speed / 2 Speeds [DPT_5.001]

 Control_ Fan Speed / 2 Speeds [DPT_5.001]

When a value between **0%** and **74%** is sent to the *Control*_ object the first fan speed will be selected.

When a value between **75%** and **100%** is sent to the *Control*_ object, the second speed will be selected.

The *Status*_ object will return a **50%** for the first fan speed, and a **100%** for the second one.



If this DPT is selected with 3 fan speeds:

 ■≵ 11
 Control_ Fan Speed / 3 Speeds [DPT_5.001]

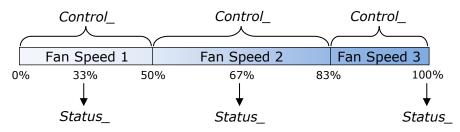
 ■≵ 62
 Status_ Fan Speed / 3 Speeds [DPT_5.001]

When a value between **0%** and **49%** is sent to the *Control*_ object the first fan speed will be selected.

When a value between **50%** and **83%** is sent to the *Control*_ object, the second speed will be selected.

When a value between **84%** and **100%** is sent to the *Control* object, the third speed will be selected.

The *Status*_ object will return a **33%** when the first speed is selected, a **67%** for the second one and a **100%** for the third one.



4.4.4. Enable use of +/- object for Fan Speed

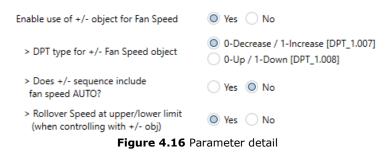
This parameter shows/hides the *Control_ Fan Speed* +/- communication object which lets you increase/decrease the indoor unit fan speed by using two different datapoint types.

■
 Control_ Fan Speed +/- [DPT_1.008]

• If set to "**no**" the object will not be shown.



• If set to "yes" the Control_ Fan Speed +/- object and a new parameter will appear.



Does +/- sequence include fan speed AUTO?

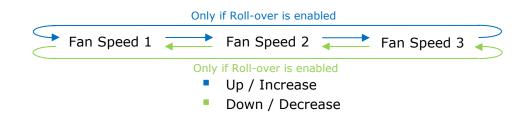
This parameter allows to include the AUTO fan speed inside the sequence of fan speeds.

> DPT type for +/- Fan Speed Object

This parameter lets choose between the datapoints **0-Up / 1-Down [DPT_1.008]** and **0-Decrease / 1-Increase [DPT_1.007]** for the *Control_ Fan Speed +/-* object.

Roll-over Speed at upper/lower limit

This parameter lets choose if roll-over will be enabled (**"yes"**) or disabled (**"no"**) for the *Control_ Fan Speed* +/- object.



4.4.5. Enable use of bit-type Fan Speed objects (for Control)

This parameter shows/hides the bit-type Control_ Fan Speed objects.

∎‡ 13	Control_ Fan Speed 1 [DPT_1.002]
∎‡ 14	Control_ Fan Speed 2 [DPT_1.002]
■₽ 15	Control_ Fan Speed 3 [DPT_1.002]

- If set to **"no"** the objects will not be shown.
- If set to "yes" the Control_ Fan Speed objects for Speed 1, Speed 2 and Speed 3 (if available) will appear. To activate a Fan Speed by using these objects a "1" value has to be sent.

4.4.6. Enable use of bit-type Fan Speed objects (for Status)

This parameter shows/hides the bit-type Status_ Fan Speed objects.



■‡ 64	Status_ Fan Speed 1 [DPT_1.002]
■2 65	Status_ Fan Speed 2 [DPT_1.002]
■2 66	Status_ Fan Speed 3 [DPT_1.002]

- If set to **"no"** the objects will not be shown.
- If set to "yes" the Status_ Fan Speed objects for Speed 1, Speed 2 and Speed 3 (if available) will appear. When a Fan Speed is enabled, a "1" value is returned through its bit-type object.

4.4.7. Enable use of Text object for Fan Speed

This parameter shows/hides the *Status_ Fan Speed Text* communication object.



- \circ $\;$ If set to ``no" the object will not be shown.
- If set to "yes" the Status_ Fan Speed Text object will appear. Also, in the parameters, will be shown two (or three, depending on the number of fan speeds selected) text fields, one for each Fan Speed, that will let modify the text string displayed by the Status_ Fan Speed Text when changing a fan speed.

> String when fan speed is 1	SPEED 1	
> String when fan speed is 2	SPEED 2	
> String when fan speed is 3	SPEED 3	
Figure 4.17 Parameter detail		

4.4.8. Enable use of Legacy_ obj for Fan Speed

This parameter shows/hides the *Legacy_ Fan Speed* communication object.

■之91 Legacy_ Fan Speed [Enumerated]

- If set to **"no"** the object will not be shown.
- If set to **"yes"** the *Legacy_ Fan Speed* object will appear. This object lets change the indoor unit Fan Speed but it uses a different data type. It is used to maintain compatibility with old gateway models.



4.5. Vane Up-Down Configuration dialog

Device: 1.1.1 DK RC interface, 4 binary inputs

Figure 4.18 Vane Up-Down Configuration dialog	General Mode Configuration Special Modes Configuration Fan Speed Configuration Vanes Up-Down Configuration Temperature Configuration Scene Configuration Switch-Off Timeouts Configuration Binary Input 1 Configuration Binary Input 2 Configuration Binary Input 3 Configuration Binary Input 4 Configuration	Indoor unit has U-D Vanes (see docum. for your indoor unit) DPT object type for Vanes Up-Down Enable use of +/- object for Vanes U-D Enable use of bit-type Vanes U-D objects (for Control) Enable use of bit-type Vanes U-D objects (for Status) Enable "Vanes U-D Swing" objects (for Control and Status) Enable use of Text object for Vanes U-D Enable use of Legacy_object for Vanes (compatible with old vers of XXACKNX1)	Yes • Scaling [DPT_5.001] • No •
		2	No
		Enable use of Text object for Vanes U-D	No
Enable use of Legacy_ object for Vanes No	Binary Input 4 Configuration		No
(for Control and Status) Enable use of Text object for Vanes U-D Enable use of Legacy_ object for Vanes		· · ·	
Binary Input 3 Configuration Enable "Vanes U-D Swing" objects (for Control and Status) No Enable use of Text object for Vanes U-D Enable use of Legacy_ object for Vanes No No Enable use of Legacy_ object for Vanes No No No Enable use of Legacy_ object for Vanes No No Enable use of Legacy_ object for Vanes Enable use			No
Binary Input 2 Configuration Binary Input 3 Configuration Binary Input 4 Configuration Enable "Vanes U-D Swing" objects (for Control and Status) Enable use of Text object for Vanes U-D Enable use of Legacy_ object for Vanes	-	(ior control)	
Binary Input 1 Configuration Binary Input 2 Configuration Binary Input 3 Configuration Binary Input 4 Configuration Enable "Vanes U-D Swing" objects (for Control and Status) Enable use of Text object for Vanes U-D No Enable use of Legacy_ object for Vanes	Switch-Off Timeouts Configuration		ND V
Switch-Off Timeouts Configuration (for Control) Binary Input 1 Configuration Enable use of bit-type Vanes U-D objects Binary Input 3 Configuration Enable U-D Swing" objects Binary Input 4 Configuration Enable "Vanes U-D Swing" objects Binary Input 4 Configuration Enable "Vanes U-D Swing" objects Binary Input 4 Configuration Enable "Vanes U-D Swing" objects Binary Input 4 Configuration Enable "Vanes U-D Swing" objects Binary Input 4 Configuration Enable "Vanes U-D Swing" objects Binary Input 4 Configuration Enable "Vanes U-D Swing" objects Binary Input 4 Configuration Enable "Vanes U-D Swing" objects Binary Input 4 Configuration Enable use of Text object for Vanes U-D No •	Scene Configuration	Fachle was of his tone Vance II Dickieste	
Switch-Off Timeouts Configuration Binary Input 1 Configuration Binary Input 2 Configuration Binary Input 3 Configuration Binary Input 4 Configuration Binary Input 4 Configuration Binary Input 4 Configuration Binary Input 4 Configuration Enable use of bit-type Vanes U-D objects No • Binary Input 4 Configuration Enable use of Text objects No •	Temperature Configuration	Enable use of +/- object for Vanes U-D	No
Temperature Configuration Enable use of bit type Vanes U-D objects No Switch-Off Timeouts Configuration Enable use of bit-type Vanes U-D objects No Binary Input 1 Configuration Enable use of bit-type Vanes U-D objects No Binary Input 2 Configuration Enable use of bit-type Vanes U-D objects No Binary Input 3 Configuration Enable use of bit-type Vanes U-D objects No Binary Input 4 Configuration Enable "Vanes U-D Swing" objects No Enable use of Text object for Vanes U-D No • Enable use of Legacy_ object for Vanes No •	Vanes Up-Down Configuration		
Temperature Configuration Enable use of +/- object for Vanes U-D No Scene Configuration Enable use of bit-type Vanes U-D objects No Switch-Off Timeouts Configuration Enable use of bit-type Vanes U-D objects No Binary Input 1 Configuration Enable use of bit-type Vanes U-D objects No Binary Input 2 Configuration Enable use of bit-type Vanes U-D objects No Binary Input 3 Configuration Enable use of bit-type Vanes U-D objects No Binary Input 4 Configuration Enable "Vanes U-D Swing" objects No Enable use of Text object for Vanes U-D No • Enable use of Legacy_ object for Vanes No •	'	DPT object type for Vanes Up-Down	Scaling [DPT_5.001]
Fan Speed ConfigurationDPT object type for Vanes Up-DownScaling [DPT_5.001]Vanes Up-Down ConfigurationEnable use of +/- object for Vanes U-DNoTemperature ConfigurationEnable use of +/- object for Vanes U-DNoSwitch-Off Timeouts ConfigurationEnable use of bit-type Vanes U-D objectsNoBinary Input 1 ConfigurationEnable use of bit-type Vanes U-D objectsNoBinary Input 2 ConfigurationEnable use of bit-type Vanes U-D objectsNoBinary Input 3 ConfigurationEnable use of bit-type Vanes U-D objectsNoBinary Input 4 ConfigurationEnable "Vanes U-D Swing" objects (for Control and Status)NoEnable use of Text object for Vanes U-DNoImage: ConfigurationBinary Input 4 ConfigurationEnable use of Legacy_ object for VanesNo		(see docum, for your indoor unit)	
Special Modes Configuration Image: Special Modes Configuration Fan Speed Configuration DPT object type for Vanes Up-Down Scaling [DPT_5.001] Vanes Up-Down Configuration Enable use of +/- object for Vanes U-D No Temperature Configuration Enable use of +/- object for Vanes U-D No Switch-Off Timeouts Configuration Enable use of bit-type Vanes U-D objects No Binary Input 1 Configuration Enable use of bit-type Vanes U-D objects No Binary Input 3 Configuration Enable use of bit-type Vanes U-D objects No Binary Input 4 Configuration Enable "Vanes U-D Swing" objects No Enable use of Text object for Vanes U-D No • Enable use of Legacy_ object for Vanes No •	Mode Configuration		Yes
Mode Configuration(see docum. for your indoor unit)Special Modes ConfigurationDPT object type for Vanes Up-DownFan Speed ConfigurationDPT object type for Vanes Up-DownVanes Up-Down ConfigurationEnable use of +/- object for Vanes U-DTemperature ConfigurationEnable use of bit-type Vanes U-D objectsSwitch-Off Timeouts ConfigurationEnable use of bit-type Vanes U-D objectsBinary Input 1 ConfigurationEnable use of bit-type Vanes U-D objectsBinary Input 2 ConfigurationEnable use of bit-type Vanes U-D objectsBinary Input 3 ConfigurationEnable use of bit-type Vanes U-D objectsBinary Input 4 ConfigurationEnable "Vanes U-D Swing" objectsBinary Input 4 ConfigurationEnable "Vanes U-D Swing" objectsBinary Input 4 ConfigurationEnable use of Text object for Vanes U-DNoImable use of Legacy_ object for VanesNoImable use of Legacy_ object for Vanes	General		

All the parameters in this section are related with the Vane Up-Down properties and communication objects.

4.5.1. Indoor unit has Up-Down Vanes

This parameter lets you choose if the unit has Up-Down Vanes available or not.



- $\circ~$ If set to ``no'' all the parameters and communication objects for the Up-Down Vanes will not be shown.
- If set to **"yes"** all the parameters and communication objects (if enabled in the parameters dialog) for the Up-Down Vanes will be shown.
- △ **Important:** Read the documentation of your indoor unit to check if Up-Down Vanes are available.

4.5.2. Enable "Control_ Vane U-D Swing"

This parameter shows/hides the *Control_ Vane Up-Down Swing* and *Status_ Vane Up-Down Swing* communication object.

- If set to **"no"** the object will not be shown.
- If set to "**yes**" the *Control_ Vane Up-Down Swing* and *Status_ Vane Up-Down Swing* objects will appear.
 - When a "1" value is sent to the *Control* object, the indoor unit enables the Swing function for the vanes. The *Status* object returns a "1" value.



- When a "O" value is sent to the *Control* object, the Swing function for the vanes stops and the indoor unit puts them to Position 1. The *Status* object returns a "O" value.
- △ **Important:** If a "**0**" value is sent to the Control_ object while the Swing function is disabled, the value will be ignored, and no change will be applied.

4.5.3. DPT object type for Vane Up-Down

With this parameter is possible to change de DPT for the *Control_ Vane Up-Down* and *Status_ Vane Up-Down* byte-type communication objects. Datapoints Scaling (DPT_5.001) and Enumerated (DPT_5.010) can be selected.

• When **"Scaling [DPT 5.001]"** is selected, *Control_ Vane Up-Down* and *Status_ Vane Up-Down* communication objects for this DPT will appear.

■‡ 17	Control_ <mark>Vanes</mark> U-D <mark>/</mark> 5 Pos [DPT_ <mark>5</mark> .001]
■2 68	Status_ <mark>Vanes U-D / 5</mark> Pos [DPT_ <mark>5</mark> .001]

When a value between **0%** and **29%** is sent to the *Control*_ object the first vane position will be selected.

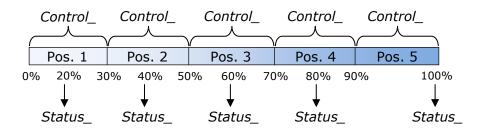
When a value between **30%** and **49%** is sent to the *Control*_ object, the second vane position will be selected.

When a value between **50%** and **69%** is sent to the *Control* object, the third vane position will be selected.

When a value between **70%** and **89%** is sent to the *Control*_ object, the fourth vane position will be selected.

When a value between **90%** and **100%** is sent to the *Control* object, the fifth vane position will be selected.

The *Status* object will return a **20%** for the first vane position, a **40%** for the second one, a **60%** for the third one, an **80%** for the fourth one and a **100%** for the fifth and last one.



• When **"Enumerated [DPT 5.010]"** is selected, *Control_ Vane Up-Down* and *Status_ Vane Up-Down* communication objects for this DPT will appear.

To choose a vane position, values from **"1**" to **"5**" can be sent to the *Control*_ object. Each value will correspond to the position (i.e. Value **"3**" = Position 3). The *Status*_ object will always return the value for the vane position selected.

▲ **Important:** If a "**0**" value is sent to the Control_ object, the Position 1 will be selected. If a value bigger than "**5**" is sent to the Control_ object, then the Position 5 will be selected.

4.5.4. Enable use of +/- obj for Vane Up-Down

This parameter shows/hides the *Control_ Vane Up-Down* +/- communication object which lets you change the indoor unit vane position by using two different datapoint types.



- If set to **"no"** the object will not be shown.
- If set to "yes" the Control_ Vane Up-Down +/- object and a new parameter will appear.

Enable use of +/- obj for Vane Up-Down	yes 🔹
> DPT type for +/- Vane Up-Down obj	0-Up / 1-Down [DPT_1.008]
> Does +/- sequen. incl. vane SWING?	no
 Rollover Vane at upper/lower limit (when controlling with +/- obj) 	yes 🔹

Figure 4.20 Parameter detail

> DPT type for +/- Vane Up-Down obj

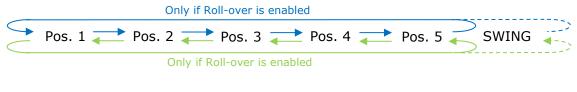
This parameter lets choose between the datapoints **0-Up / 1-Down [DPT_1.008]** and **0-Decrease / 1-Increase [DPT_1.007]** for the *Control_ Vane Up-Down +/-* object.

Does +/- sequen. incl. vane SWING?

This parameter lets you choose if SWING function is included (**"yes"**) or not (**"no"**) in the sequence when using *Control_ Vane Up-Down +/-* object as shown in the discontinuous segment at the picture below.

Rollover Vane at upper/lower limit

This parameter lets choose if roll-over will be enabled (**"yes"**) or disabled (**"no"**) for the *Vane Up-Down* +/- object.



- Up / Increase
- Down / Decrease

4.5.5. Enable use of bit-type Vane U-D objects (for Control)

This parameter shows/hides the bit-type *Control_ Vane Up-Down* objects.



■ ‡ 18	Control_ Vanes U-D Pos 1 [DPT_1.002]
■之 19	Control_ Vanes U-D Pos 2 [DPT_1.002]
■≵ 20	Control_ Vanes U-D Pos 3 [DPT_1.002]
■‡ 21	Control_ Vanes U-D Pos 4 [DPT_1.002]
■22	Control_ Vanes U-D Pos 5 [DPT_1.002]

- \circ If set to ``no" the objects will not be shown.
- If set to "yes" the Control_ Vane Up-Down objects for each Position (1 to 5) will appear. To activate a Vane Position by using these objects, a "1" value has to be sent.

4.5.6. Enable use of bit-type Vane U-D objects (for Status)

This parameter shows/hides the bit-type *Status_ Vane Up-Down* objects.

■‡ 69	Status_ Vanes U-D Pos 1 [DPT_1.002]
■≵ 70	Status_ Vanes U-D Pos 2 [DPT_1.002]
■2 71	Status_ Vanes U-D Pos 3 [DPT_1.002]
■2 72	Status_ Vanes U-D Pos 4 [DPT_1.002]
■2 73	Status_ Vanes U-D Pos 5 [DPT_1.002]

- If set to **"no"** the objects will not be shown.
- If set to "yes" the Status_ Vane Up-Down objects for each Position (1 to 5) will appear.
 When a Vane Position is enabled, a "1" value is returned through its bit-type object.

4.5.7. Enable use of Text object for Vane U-D

This parameter shows/hides the *Status_ Vane Up-Down Text* communication object.

■2 75 Status_ Vanes U-D Text [DPT_16.001]

- If set to **"no"** the object will not be shown.
- If set to "yes" the Status_ Vane Up-Down Text object will appear. Also, in the parameters will be shown six text fields, five for the Vane Position and one for the Swing function, that will let modify the text string displayed by the Status_ Vane Up-Down Text when changing a vane position.

Figure 4 21 Parameter detail		
> Str. when vane U-D is in SWING	U-D SWING	
> String when vane U-D is in POS5	U-D POS5	
> String when vane U-D is in POS4	U-D POS4	
> String when vane U-D is in POS3	U-D POS3	
> String when vane U-D is in POS2	U-D POS2	
> String when vane U-D is in POS1	U-D POS1	

Figure 4.21 Parameter detail

4.5.8. Enable use of Legacy_ obj for Vane U-D

This parameter shows/hides the *Legacy_ Vane Up-Down* communication object.

■ 2 Legacy_ Vanes Up-Down [Enumerated]



- If set to **"no"** the object will not be shown.
- If set to "yes" the Legacy_ Vane Up-Down object will appear. This object lets change the indoor unit Vane Position but it uses a different data type. It is used to maintain compatibility with old gateway models.

4.6. Temperature Configuration dialog

Device: 1.1.1 DK RC interface, 4 binary in	nputs	
General Mode Configuration Special Modes Configuration	Status_ AC Return Temp shows temperature from sensor in	Indoor Unit 🔹
Fan Speed Configuration Vanes Up-Down Configuration	Periodic sending of "Status_ AC Setp" (in seconds;0=No periodic sending)	0
Temperature Configuration Scene Configuration	Transmission of "Status_ AC Refer. Temp"	Only on change 🔹
Switch-Off Timeouts Configuration Binary Input 1 Configuration	Enable use of +/- obj for Setpoint Temp	No
Binary Input 2 Configuration	Enable limits on Control_ Setpoint obj	No
Binary Input 3 Configuration Binary Input 4 Configuration	Ambient temp. ref. is provided from KNX (carefully read User Guide if enabled)	No

Figure 4.22 Default Temperature Configuration dialog

All the parameters in this section are related with the Temperature properties and communication objects.

4.6.1. Status_AC Return Temp shows temperature from...

Status_ AC Return Temp shows temperature (from sensor in...

) Indoor Unit

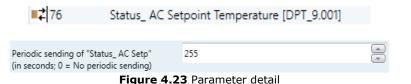
Remocon (only when DK-RC-KNX-1i is slave in...

This parameter allows the device to send any of the temperatures that may be available for the indoor unit. Recommended configuration is:

- Indoor unit \rightarrow in any of the following cases:
 - No wired remote controller is being used
 - Wired remote controller is configured as master and the AC uses the temperature from the return path (not the remote controller temperature).
- Remocon → In case there is a wired remote controller for the AC and the indoor unit is configured to receive the temperature from the remote controller.

4.6.2. Periodic sending of "Status_ AC Setp"

This parameter lets you change the interval of time (in seconds, from 0 to 255) at the end of which the AC setpoint temperature is sent to the KNX bus. For a "**0**" value, the AC setpoint temperature will ONLY be sent on change. The AC setpoint temperature is sent through the communication object *Status_ AC Setpoint Temp*.



△ **Important:** In case of working with the gateway in slave mode and the ambient temperature provided from KNX, the setpoint temperature returned from this object, will



be the one resulting from the formula shown in the section "4.6.5 Ambient temp. ref. is provided from KNX".

4.6.3. Transmission of "Status_ AC Ret Temp"

This parameter lets to you choose if the AC return temperature will be sent **"only cyclically"**, **"only on change"** or **"cyclically and on change"**. The AC return temperature is sent through the communication object *Status_ AC Return Temp.*

■2 77 Statu	s_ AC Reference Temperature [DPT_9.00	1]
Transmission of "Status_ AC Ret Te	emp" cyclically and on change	•
> "Status_ AC SetTemp" periodic sending time (in sec)	200	
Figure 4.24 Parameter detail		

<u>"Status AC SetTemp" periodic sending time (in sec)</u>

This parameter will only be available for the **"only cylically"** and **"cyclically and on change"** options, and let you change the interval of time (in seconds, from 1 to 255) at the end of which the AC return temperature is sent to the KNX bus.

4.6.4. Enable use of +/- obj for Setp Temp

This parameter shows/hides the *Control_ Setpoint Temp* +/- communication object which lets you change the indoor unit setpoint temperature by using two different datapoint types.

■26: Control_ Setpoint Temp +/- [DPT_1.008 - 1bit] - 0-Up;1-Down

- If set to **"no"** the object will not be shown.
- If set to "yes" the Control_ Setpoint Temp +/- object and a new parameter will appear.

> DPT type for +/- Setp Temp object	0-Up / 1-Down [DPT_1.008] .25 Parameter detail	•
Enable use of +/- obj for Setp Temp	yes	•

DPT type for +/- Setp Temp object

This parameter lets choose between the datapoints **0-Up / 1-Down [DPT_1.008]** and **0-Decrease / 1-Increase [DPT_1.007]** for the *Control_ Setpoint Temp +/-*object.

```
(Lower limit) 16°C → 17°C → ... → 31°C → 32°C (Upper limit)

Up / Increase
Down / Decrease
```

4.6.5. Enable limits on Control_ Setpoint obj

This parameter enables to define temperature limits for the *Control_ Setpoint Temperature* object.

Enable limits on Control_ Setpoint obj	yes 🔹
> Control_ Set Temp Lower limit (°C)	[18.0°C ▼
> Control_ Set Temp Upper limit (°C)	30.0°C ▼
Figure 4.26 Parameter detail	

- If set to **"no"** the setpoint temperature limits for the *Control_ Setpoint Temperature* object will be the default: 16°C for the lower limit and 32°C for the upper limit.
- If set to **"yes"** it is possible to define temperature limits for the *Control_ Setpoint Temperature* object.
- <u>Control</u> Set Temp Lower limit (°C)

This parameter lets to define the lower limit for the setpoint temperature.

Control Set Temp Upper limit (°C)

This parameter lets to define the upper limit for the setpoint temperature.

- ▲ **Important:** If a setpoint temperature above the upper defined limit (or below the lower defined limit) is sent through the Control_ Setpoint Temperature object, it will be ALWAYS applied the limit defined.
- △ **Important:** When limits are enabled, any setpoint temperature sent to the AC (even through scenes, special modes, etc.) will be limited.
- △ **Important:** If the gateway is slave in P1/P2 bus, it is possible to change the setpoint temperature with the master remote controller below or above the defined limits.

4.6.6. Ambient temp. ref. is provided from KNX

This parameter shows/hides the *Control_ Ambient Temperature* communication object which lets you use an ambient temperature reference provided by a KNX device.

■
27 Control_ Ambient Temperature [DPT_9.001]

- ▲ **Important:** The Daikin indoor units has three different ways to be programmed in regards with the ambient temperature sensor, see below. This configuration must be done by a Daikin qualified technician or installer.
 - 1) The indoor unit uses its own return temperature.
 - 2) The indoor unit uses its own return temperature when there is a big difference between the ambient temperature and the setpoint temperature. It uses the ambient temperature from the Master device (remote controller, or INKNXDAI001R100 device) when this difference is small.
 - 3) It is only used the ambient temperature from the Master device (remote controller, or INKNXDAI001R100 device). This option is not available on all the indoor unit models.

Note that when this parameter is enabled in the INKNXDAI001R100, it may require the AC indoor unit to be programmed to work in a specific way regarding the ambient temperature sensor, in one of the three options explained above.

• If set to **"no"** the object will not be shown.

- If set to "**yes**" the *Control_ Ambient Temperature* object will appear.
 - When the INKNXDAI001R100 is **Master** in P1/P2 bus: The ambient temperature is provided from KNX. The AC indoor unit will work with this temperature as its reference temperature (it will NOT use its own return temperature). *This requires programming the AC indoor unit to work as explained in options 2) or 3) above.*
 - When the INKNXDAI001R100 is **Slave** in P1/P2 bus: The indoor unit works with its own return temperature. *This requires programming the AC indoor unit to work as explained in option 1) above.*

As in this case the AC return temperature could be different as of the KNX ambient temperature, the INKNXDAI001R100 applies a formula to compensate this difference. So, the compensated setpoint temperature sent to the AC indoor unit is the result of applying the next formula:

"AC Setp. Temp" = "AC Ret. Temp" - ("KNX Amb. Temp." - "KNX Setp. Temp")

- AC Setp. Temp: AC indoor unit setpoint temperature
- AC Ret. Temp: AC indoor unit return temperature
- KNX Amb. Temp.: Ambient temperature provided from KNX
- KNX Setp. Temp: Setpoint temperature provided from KNX

This formula ensures that INKNXDAI001R100 will send always a suitable setpoint to the AC indoor unit to reach the demanded setpoint of KNX and having always into account the ambient temperature read at KNX and the return temperature measured by the own AC indoor unit. Note these two ambient temperatures may be different because one is measured at 1,5 meters above the ground (the one measured by the KNX sensor), and the other one is measured in the inlet pipe located in the ceiling (the one measured by Daikin).

As an example, consider the following situation:

User wants: **19°C** ("KNX Setp. Temp.") User sensor (a KNX sensor) reads: **21°C** ("KNX Amb Temp.") Ambient temp. read by Daikin system is: **24°C** ("AC Ret. Temp")

In this example, the final setpoint temperature that INKNXDAI001R100 will send out to the indoor unit (shown in "Setp. Temp.") will become 24° C – (21°C - 19°C) = **22°C**. This is the setpoint that will actually be requested to Daikin unit.

This formula will be applied as soon as the *Control_ Setpoint Temperature* and *Control_ Ambient Temperature* objects are written at least once from the KNX installation. After that, they are kept always consistent.

Note that this formula will always drive the AC indoor unit demand in the *right* direction, regardless of the operation mode (Heat, Cool or Auto).

It also must be remarked that, if using a Daikin centralized control system for the supervision/control of multiple indoor units, it will report the actual setpoint and ambient temperature on the AC indoor units, which may be different than the ones at the KNX side.



4.7. Scene Configuration dialog

Device: 1.1.1 DK RC interface, 4 bi	inary inputs
-------------------------------------	--------------

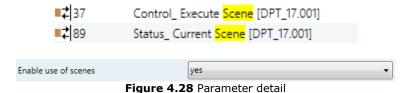
General Mode Configuration	Enable use of scenes	Yes 🔻
Special Modes Configuration Fan Speed Configuration	Scenes can be stored from KNX bus	No
Vanes Up-Down Configuration Temperature Configuration	Enable use of bit objects for scene execution	No
Scene Configuration Switch-Off Timeouts Configuration	Scene 1 preset	No
Binary Input 1 Configuration Binary Input 2 Configuration	Scene 2 preset	No
Binary Input 3 Configuration	Scene 3 preset	No
Binary Input 4 Configuration	Scene 4 preset	No
	Scene 5 preset	No

Figure 4.27 Parameter detail

All the parameters in this section are related with the Scene properties and communication objects. A scene contains values of: On/Off, Mode, Fan speed, Vane position, Setpoint Temperature and Remote Controller Disablement.

4.7.1. Enable use of scenes

This parameter shows/hides the scene configuration parameters and communication objects.



• If set to "no" the scene parameters and communication objects will not be shown.

If set to "yes" the scene parameters and communication objects will be shown. To execute a scene through the byte-type object, a value from "0" to "4" has to be sent, correponding each one to a different scene (i.e. "0" = Scene 1;... "4" = Scene 5).

4.7.2. Scenes can be stored from KNX bus

This parameter shows/hides the *Control_ Save/Exec Scene* and all the *Control_ Store Scene* (if enabled) communication objects.

■‡ 38	Control_ Store Scene 1 [DPT_1.002]
■≵ 39	Control_ Store Scene 2 [DPT_1.002]
∎≵ 40	Control_ Store Scene 3 [DPT_1.002]
∎≵ 41	Control_ Store Scene 4 [DPT_1.002]
∎‡ 42	Control_ Store Scene 5 [DPT_1.002]

- $\circ~$ If set to ``no" the communication objects will not be shown.
- If set to "yes" the communication objects and a new parameter will appear. To store a scene through the byte-type object, a value from "128" to "132" has to be sent to the object, correponding each one to a different scene (i.e. "128" = Scene 1;... "132" = Scene 5).



Scenes can be stored from KNX bus	yes 🔹
> Enable use of bit objects	yes 🔹
for storing scenes (from bus)	
Figure 4.29 Parameter detail	

> Enable use of bit objects for storing scenes (from bus)

If set to "no" the objects will not be shown.

If set to **"yes"** the *Control_ Store Scene* objects for storing scenes will appear. To store a scene by using these objects, a **"1"** value has to be sent to the scene's object we want to store (i.e. to store scene 4, a "1" has to be sent to the *Control_ Store Scene 4* object).

4.7.3. Enable use of bit objects for scene execution

This parameter shows/hides the *Control_ Execute Scene* bit-type communication objects.

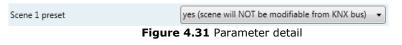
■₹ 43	Control_ Execute <mark>Scene</mark> 1 [DPT_1.002]
■≵ 44	Control_Execute Scene 2 [DPT_1.002]
■之 45	Control_Execute Scene 3 [DPT_1.002]
■≵ 46	Control_Execute Scene 4 [DPT_1.002]
■之 47	Control_Execute Scene 5 [DPT_1.002]
Enable use of bit objects for scene execution	yes 🔻
tor seeme execution	Figure 4 20 Deveze atex datail

Figure 4.30 Parameter detail

- $\circ~$ If set to ``no" the communication objects will not be shown.
- If set to "yes" the communication objects will appear. To execute a scene by using these objects, a "1" value has to be sent to the scene's object we want to execute (i.e. to execute scene 4, a "1" has to be sent to the *Control_ Execute Scene 4* object).

4.7.4. Scene "x" preset

This parameter lets you define a preset for a scene (the following description is valid for all the scenes).



- \circ If set to ``no" the preset for the scene ``x" will be disabled.
- If set to **"yes"** the preset will be enabled. When a scene is executed the values configured in the preset will be aplied.
- ▲ **Important:** If a scene's preset is enabled, will not be possible to modify (store) the scene from the KNX bus.



> Scene 1 / Value for On-Off	OFF
> Scene 1 / Value for Mode	AUTO
> Scene 1 / Value for Fan Speed	(unchanged)
> Scene 1 / Value for Vane Up-Down (if indoor unit has Vane U-D)	POSITION 4
> Scene 1 / Value for Setp Temp (°C)	25.0°C 🔹
> Scene 1 / Value for Remote Lock	(unchanged)

Figure 4.32 Parameter detail

Scene "x" / Value for On-Off

This parameter lets you choose the power of the indoor unit when the scene is executed. The following options are available: "ON", "OFF" or "(unchanged)".

Scene "x" / Value for Mode

This parameter lets you choose the mode of the indoor unit when the scene is executed. The following options are available: "AUTO", "HEAT", "COOL", "FAN", "DRY", or "(unchanged)".

Scene "x" / Value for Fan Speed

This parameter lets you choose the fan speed of the indoor unit when the scene is executed. The following options are available: "SPEED 1", "SPEED 2", "SPEED 3", or "(unchanged)".

Scene "x" / Value for Vane Up-Down

This parameter lets you choose the vane position of the indoor unit when the scene is executed. The following options are available: **"POSITION 1"**, **"POSITION 2"**, **"POSITION 3"**, **"POSITION 4"**, **"POSITION 5"**, **"SWING"** or **"(unchanged)"**.

Scene "x" / Value for Setp Temp (°C)

This parameter lets you choose the setpoint temperature of the indoor unit when the scene is executed. The following options are available: from "16°C" to "32°C" (both included), or "(unchanged)".

Scene "x" / Value for Remote Lock

This parameter lets you choose the remote controller status of the indoor unit when the scene is executed. The following options are available: "locked", "unlocked", or "(unchanged)".

- ▲ **Important:** If any preset value is configured as "**(unchanged)**", the execution of this scene will not change current status of this feature in the AC unit.
- ▲ **Important:** When a scene is executed, Status_ Current Scene object shows the number of this scene. Any change in previous items does Status_ Current Scene show **"No Scene"**. Only changes on items marked as **"(unchanged)"** will not disable current scene.



4.8. Switch-Off Timeouts Configuration dialog

De	evice: 1.1.1 DK RC interface, 4 binary i	nputs	
	General Mode Configuration Special Modes Configuration Fan Speed Configuration Vanes Up-Down Configuration Temperature Configuration	Enable use of Open Window / Switch off timeout function Enable use of Occupancy function Enable use of Sleep function	No • No • No •
	Scene Configuration Switch-Off Timeouts Configuration		
	Binary Input 1 Configuration Binary Input 2 Configuration Binary Input 3 Configuration Binary Input 4 Configuration		

Figure 4.33 Default Switch-Off Timeouts Configuration dialog

All the parameters in this section are related with the timeout properties and communication objects.

4.8.1. Enable use of Open Window / Switch off timeout function

This parameter shows/hides the *Control_ Switch Off Timeout* communication object which lets you Start/Stop a timeout to switch off the indoor unit.

∎ ‡ 2	28	Control_	Window	Contact	Status	[DPT]	1.009]
--------------	----	----------	--------	---------	--------	-------	--------

- If set to "no" the object will not be shown.
- If set to "yes" the Control_ Switch Off Timeout object and new parameters will appear.
 If a "1" value is sent to this object, and the indoor unit is already turned on, the switch-off timeout will begin. If a "0" value is sent to this object, the switch-off timeout will stop.

Enable use of Open Window / Switch off timeout function	yes	•
> AC switch-off timeout (min)	2	 T
> DPT for Window / Switch-off timeout	0-Open / 1-Closed Window [DPT_1.009]	•
> Reload last On/Off val once window is closed	no	•
> Disallow On/Off operation while window is Open	yes	•

Figure 4.34 Parameter detail

AC switch-off timeout (min)

This parameter lets you select how much time (in minutes) to wait before switching off the indoor unit.

DPT for Window / Switch-off timeout

This parameter lets you choose between the datapoints **0-Open / 1-Closed Window** [DPT_1.009] and **0-Stop / 1-Start Timeout** [DPT_1.010] for the *Control_ Switch Off Timeout*.

> Disallow On/Off operation while window is Open

If set to "no", On/Off commands while the window is open will be accepted.

- If a "1" value is sent to the *Control_ Switch Off Timeout* object the switch-off timeout period will begin again.
- If a "**0**" value is sent to the *Control_ Switch Off Timeout* object, no action will be performed.

If set to **"yes"**, On/Off commands, while the window is open, will be saved (but not applied). These commands will be used in the next parameter if set to **"yes"**.

Reload last On/Off val once window is closed?

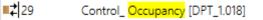
If set to **"no"**, once the switch-off timeout is stopped, any value will be reloaded.

If set to **"yes"**, once the switch-off timeout is stopped, the last On/Off value sent will be reloaded.

- If a "1" value is sent to the *Control_ Switch Off Timeout* object after the timeout period, the indoor unit will **turn on**.
- If a "O" value is sent to the *Control_ Switch Off Timeout* after the timeout period, no action will be performed.

4.8.2. Enable use of Occupancy function

This parameter shows/hides the *Control_ Occupancy* communication object which lets you apply different parameters to the indoor unit depending on the presence/no presence in the room.



- If set to **"no"** the object will not be shown.
- If set to "yes" the Control_ Occupancy object and new parameters will appear. If a "O" value is sent to this object (no room occupancy), the timeout will begin. If a "1" value is sent to this object, the timeout will stop.

Enable use of Occupancy function	yes 🔹	
> Timeout to apply action (minutes)	2	
> Action after timeout elapsed	Apply Preset Delta 🔹	
Figure 4.35 Parameter detail		

Timeout to apply action (minutes)

This parameter lets you choose how much time to wait (in minutes) before executing the action specified in the next parameter ("Action after timeout elapsed").

Action after timeout elapsed

When **Switch-Off** is selected, once the timeout has elapsed, the indoor unit will be turned off.

When **Apply Preset Delta** is selected, once the timeout has elapsed, a delta temperature will be applied to save energy (decreasing the setpoint when in Heat mode or increasing the setpoint when in Cool mode). Also new parameters will appear.



> Temp delta decrease (HEAT) or increase (COOL) (°C)	2.0°C •
> Enable secondary timeout	yes 🔹
El	Development and a table

Figure 4.36 Parameter detail

Temp delta decreases (HEAT) or increase (COOL) (°C)

This parameter lets configure the delta temperature (increase or decrease) that will be applied when the timeout has elapsed.

- ▲ Important: When there is occupancy again after the application of a delta, the same delta will be applied inversely. (i.e. In a room with AC in cool mode and 25°C setpoint temperature, a +2°C delta is applied after the occupancy timeout, setting the setpoint at 27°C because there is no occupancy in the room. If the setpoint is raised to 29°C during that period, when the room is occupied again, a -2°C delta will be applied and the final setpoint temperature will then be 27°C).
 - Enable secondary timeout

If set to **"no"** nothing will be applied.

If set to "**yes**", a new timeout will be enabled, and two new parameters will appear.

> Timeout to apply action (min)	2	(*) (*)
> Action after timeout elapsed	Apply Preset Delta	•
> Temp delta dec (HEAT) / or inc (COOL) (°C)	2.0°C	•

Figure 4.37 Parameter detail

Timeout to apply action (minutes)

This parameter lets you choose how much time to wait (in minutes) before executing the action specified in the next parameter ("Action after timeout elapsed"). This time is considered as a part of the occupancy.

> Action after timeout elapsed

When **Switch-Off** is selected, once the timeout has elapsed, the indoor unit will turn off.

When **Apply Preset Delta** is selected, once the timeout configured is extinguished, a delta temperature will be applied (decreasing the setpoint when in Heat mode or increasing the setpoint when in Cool mode). Also new parameters will appear.

> <u>Temp delta decreases (HEAT) or increase (COOL) (°C)</u>

This parameter lets configure the delta temperature that will be applied when the timeout is extinguished.

- △ **Important:** When there is occupancy again after the application of a delta, the same delta will be applied inversely as explained above.
 - Disallow On/Off operation while not Occupied

If set to "**no**", On/Off commands while the non-occupancy period will be accepted.

If set to "yes", once Switch-Off action has been executed, On/Off commands will be saved (but not applied). These commands will be used in the next parameter if set to "ves".

 Reload last On/Off value when Occupied 	yes 🔹
 > Disallow On/Off operation while not Occupied 	yes 🔹
Figure 4 38 F	Paramotor dotail

Figure 4.38 Parameter detail

Consider that the countdown time (transitional time between occupancy and nonoccupancy) is considered as a part of the occupancy status as explained before.

Reload last On/Off value when Occupied

If set to "no", once the switch-off timeout has elapsed, any value will be reloaded.

If set to "yes", once the switch-off timeout has elapsed, the last On/Off value will be reloaded.

- If a "1" value is sent to the *Control Switch Off Timeout* object after the timeout period, the indoor unit will **turn on**.
- If a "O" value is sent to the Control_ Switch Off Timeout after the timeout period, no action will be performed.

4.8.3. Enable use of SLEEP timeout

This parameter shows/hides the Control_ Start Sleep Timeout communication object which lets you start a timeout to automatically turn off the indoor unit.

■2 30	Control_	Sleep	Timeout	[DPT_1.010]
-------	----------	-------	---------	-------------

- If set to "**no**" the object will not be shown.
- If set to "yes" the Control_ Start Sleep Timeout object and a new parameter will appear. If a "1" value is sent to this object the switch-off timeout will begin. If a "0" value is sent to this object, the switch-off timeout will stop.

Enable use of SLEEP timeout	yes 🔹
> Sleep function switch-off timeout	1
(minutes)	• Davamatar datail

Figure 4.39 Parameter detail

Timeout to apply action (minutes)

This parameter lets you select how much time (in minutes) to wait before switching off the AC unit.



vice: 1.1.1 DK RC interface, 4 binary	inputs		
General Mode Configuration	Enable use of Input 1	Yes	
Special Modes Configuration Fan Speed Configuration	> Contact type	NO: Normally Open	
Vanes Up-Down Configuration Temperature Configuration	> Debounce time	50 ms	
Scene Configuration Switch-Off Timeouts Configuration	> Disabling function	No	
Binary Input 1 Configuration Binary Input 2 Configuration	> Function	Switching	
Binary Input 3 Configuration Binary Input 4 Configuration	> Send telegram after bus recovery	No action	
Sinary input + configuration	> Value on raising edge (contact activated)	No action	
	> Value on falling edge (contact deactivated)	No action	
	> Cyclical sending	Never	

Figure 4.40 Binary Input Configuration dialog

All the parameters in this section are related with the binary inputs properties and communication objects.

4.9.1. Enable use of Input "x"

This parameter enables the use of the Input "x'' and shows/hides the *Status_ Inx* communication object(s) which will act as configured in the "Function" parameter.

■2 93	Status_ In1 - Switching [DPT_1.001]	
■2 95	Status_ In2 - Switching [DPT_1.001]	
■2 97	Status_ In3 - Switching [DPT_1.001]	
■‡ 99	Status_ In4 - Switching [DPT_1.001]	

- If set to **"no"** the objects will not be shown.
- If set to **"yes"** the *Status_ Inx* object(s) and new parameters will appear.

4.9.2. Contact type

This parameter lets choose the behavior that will have the binary input depending on if the contact is normally open or normally closed.

• There are two possible options to configure the contact type: **"NO: Normally Open"** and **"NC: Normally Closed"**.

4.9.3. Debounce time

This parameter lets choose a debounce time (in milliseconds) that will be applied to the contact.

4.9.4. Disabling function

This parameter shows/hides the *Control_ Disable Input x* communication object which will let disable/enable the input x.

■之 47: Control_ Disable Input 1 [DPT_1.002 - 1bit] - 0-False;1-True



■ 47: Control_ Disable Input 1 [DPT_1.003 - 1bit] - 0-Disable;1-Enable

- If set to "**no**" any object will be shown.
- When **"DPT 1.003: 0-Disable; 1-Enable"** is selected, the input can be disabled using the value **"0"** and enabled using the value **"1"**.
- When **"DPT 1.002: 1-True (Disable); 0-False (Enable)"** is selected, the input can be disabled using the value **"1"** and enabled using the value **"0"**.

4.9.5. Function

This parameter lets choose the function that will have the binary input. There are 7 different functions available: Switching, Dimming, Shutter/Blind, Value, Execute Scene (internal), Occupancy (internal) and Window Contact (internal).

• When **"Switching"** is selected the communication object and new parameters for the Input "x" will appear as shown below.

■‡ 90: Status_ In1 - Switch	ing [DPT_1.001 - 1bit] - 0-Off;1-On
> Function	Switching -
> Send telegram after bus recovery	No action 🔻
 > Value on raising edge (contact activated) 	Toggle (On/Off)
 > Value on falling edge (contact deactivated) 	No action 🔻
> Cyclical sending	Never

Figure 4.41 Parameter detail

Send telegram after bus recovery

This parameter lets select if the Binary Input "x'' will send a telegram, or not, after a bus recovery, and the type of telegram sent (if enabled).

- When "No action" is selected, no telegram will be sent after a bus recovery.
- When "Current status" is selected, the binary input will send a telegram with its current status after a bus recovery. Also a new parameter will appear (see below).
- When "**On**" is selected, the binary input will send a telegram with a "**1**" value after a bus recovery. Also a new parameter will appear (see below).
- When "Off" is selected, the binary input will send a telegram with a "O" value after a bus recovery. Also a new parameter will appear (see below).

> Sending delay after	10	
bus recovery (seconds)		
Elguro 4 42 Darar	motor dotail	

- Figure 4.42 Parameter detail
- Sending delay after a bus recovery (seconds)

This parameter lets configure a delay (in seconds) that will be applied after a bus recovery and, after which, a telegram will be sent.

Value on rising edge

This parameter lets select the value that the Binary Input "x'' will send on a rising edge (contact activated).

- When "On" is selected, the binary input will always send telegrams with a "1" value.
- When "Off" is selected, the binary input will always send telegrams with a "O" value.
- When "Toggle (On/Off)" is selected, the binary input will send a "1" value after a "0" value and viceversa.
- When "No action" is selected, the binary input will not perform any action.

Value on falling edge

This parameter lets select the value that the Binary Input "x'' will send on a falling edge (contact deactivated).

- When "On" is selected, the binary input will always send telegrams with a "1" value.
- When "Off" is selected, the binary input will always send telegrams with a "O" value.
- When "Toggle (On/Off)" is selected, the binary input will send a "1" value after a "0" value and viceversa.
- When "No action" is selected, the binary input will not perform any action.

Cyclical sending

This parameter lets enable/disable cyclical sending when a determined condition is met.

- When **"When output value is On"** is selected, everytime a **"1"** value is sent, it will be sent cyclically. Also a new parameter will appear (see below).
- When **"When output value is Off"** is selected, everytime a **"0"** value is sent, it will be sent cyclically. Also a new parameter will appear (see below).
- When "Always" is selected, the binary input will send any value cyclically. Also a new parameter will appear (see below).
- When "Never" is selected, cyclical sending will be disabled.
- Period for cyclical sending (seconds)

This parameter lets configure a time (in seconds) for the cyclical sending.

> Period for cyclical sending	2	 		
(seconds)				
Figure 4 43 Parameter detail				

Figure 4.43 Parameter detail



 \cap

• When **"Dimming"** is selected the communication objects and new parameters for the Input "x" will appear as shown below.

\$\vec{1}{2}\$ Status_In2 - Dimming - On/Off [DPT_1.001 - 1bit] - 0-Off;1-On
 \$\vec{1}{2}\$ Status_In2 - Dimming - Step(%) [DPT_3.007 - 4bit] - Dimming step

> Function	Dimming
> Send telegram after bus recovery	No action 🔹
> Mode for short (long) operation	Toggle: On/Off (increase/decrease)
> Increasing step	+ 100 %
> Decreasing step	- 100 %
> Short/long operation limit (x100ms)	10
 Cyclical sending period (x100ms) (0-No cyclical sending) 	0

Figure 4.44 Parameter detail

Send telegram after bus recovery

This parameter lets select if the Binary Input "x'' will send a telegram, or not, after a bus recovery, and the type of telegram sent (if enabled).

- When "No action" is selected, no telegram will be sent after a bus recovery.
- When "**On**" is selected, the binary input will send a telegram with a "**1**" value after a bus recovery. Also a new parameter will appear (see below).
- When "Off" is selected, the binary input will send a telegram with a "O" value after a bus recovery. Also a new parameter will appear (see below).

 Sending delay after bus recovery (seconds) 	10	▲ ▼			
Figure 4.45 Parameter detail					

Sending delay after a bus recovery (seconds)

This parameter lets configure a delay (in seconds) that will be applied after a bus recovery and, after which, a telegram will be sent.

Mode for short (long) operation

This parameter lets select the value that the Binary Input "x'' will send on a rising edge (contact activated), for a short and a long operation.

- When "On (increase)" is selected, the binary input will always send telegrams with a "1" value for a short operation, and an "increase step" for a long operation.
- When "Off (decrease)" is selected, the binary input will always send telegrams with a "O" value for a short operation, and an "decrease step" for a long operation.
- When "Toggle: On/Off (increase/decrease)" is selected:



- For the short operation the binary input will send a **"1**" value after a **"0**" value and viceversa.
- For the long operation the binary input will send an **"increase step"** after a **"decrease step"** and viceversa.
- Important: Note that the first long operation in toggle depends on the last short operation, meaning that after a "1" value will be sent a "decrease step" and after a "0" value will be sent an "increase step".
- ▲ **Important:** The time period between a short and a long operation is defined in the parameter "Short/long operation limit (x100ms)".
- Increasing step

This parameter lets select the increasing step value (in %) that will be sent for a long operation.

Decreasing step

This parameter lets select the decreasing step value (in %) that will be sent for a long operation.

Short/long operation limit (x100ms)

This parameter lets introduce the time period difference for the short and the long operation.

Cycl. send. period in long oper. (x100ms)

This parameter lets configure a time (in seconds) for the cyclical sending of a long operation.

 $\circ~$ When "Shutter/Blind" is selected the communication objects and new parameters for the Input "x" will appear as shown below.

■2|94: Status_In3 - Shut/Blind - Step [DPT_1.007 - 1bit] - 0-Step Up;1-Step Down
■2|95: Status_In3 - Shut/Blind - Move [DPT_1.008 - 1bit] - 0-Move Up;1-Move Down

> Function	Shutter/Blind	•
 Send telegram after bus recovery 	No action	-
> Operation	Toggle (Up/Down)	•
> Method	Step-Move-Step	•
> Short/long operation limit (x100ms)	10	(A)
 Vanes adjustment time (x100ms) 	10	

Figure 4.46 Parameter detail

Send telegram after bus recovery

This parameter lets select if the Binary Input "x'' will send a telegram, or not, after a bus recovery and the type of telegram sent (if enabled).



- When "No action" is selected, no telegram will be sent after a bus recovery.
- When **"Move Up"** is selected, the binary input will send a telegram with a **"0"** value after a bus recovery. Also a new parameter will appear (see below).
- When "Move Down" is selected, the binary input will send a telegram with a "1" value after a bus recovery. Also a new parameter will appear (see below).

 Sending delay after bus recovery (seconds) 	10	0		
Figure 4.47 Parameter detail				

Sending delay after a bus recovery (seconds)

This parameter lets configure a delay (in seconds) that will be applied after a bus recovery and, after which, a telegram will be sent.

> Operation

This parameter lets select the value that the Binary Input "x'' will send on a rising edge (contact activated).

- When "Up" is selected, the binary input will always send telegrams with a "O".
- When "Down" is selected, the binary input will always send telegrams with a "1" value.
- When "Toggle (Up/Down)" is selected the binary input will send a "0" value after a "1" value and viceversa.
- Method

This parameter lets select the working method for the shutter/blind.

• When "Step-Move-Step" is selected: On a rising edge (contact activated) a step/stop telegram will be sent and will begin a time called **T1**. If a falling edge occurs (contact deactivated) during the **T1**, no action will be performed.

If the rising edge is maintained longer than **T1**, a move telegram will be sent and will start a time called **T2**. If a falling edge occurs during the **T2**, a step/stop telegram will be sent. If a falling edge occurs after **T2** no action will be performed.

- When "Move-Step" is selected: On a rising edge a move telegram will be sent and will begin the T2 time. If a falling edge occurs during the T2, a step/stop telegram will be sent. If a falling edge occurs after T2 no action will be performed.
- ▲ Important: The T1 time must be defined in the "Short/long operation limit (x100ms)" parameter. Also, the T2 time must be defined in the "Vanes adjustment time (x100ms)" parameter.
- Short/long operation limit (x100ms)

This parameter lets introduce the time difference for the short and the long operation (T1 time).

Vanes adjustment time (x100ms)

This parameter lets introduce the time for the vanes adjustment/blind movement (T2 time).

• When **"Value"** is selected the communication objects and new parameters for the Input "x" will appear as shown below.

■2 97: Status_	In4 - Value	[DPT_5.010 -	1byte] -	1-byte unsigned value
----------------	-------------	--------------	----------	-----------------------

> Function	Value
 Send telegram after bus recovery 	Fixed value
 Sending delay after bus recovery (seconds) 	10
> DPT to be sent	DPT 5.010 (1byte)
 Value on raising edge (when contact activated) 	234

Figure 4.48 Parameter detail

Send telegram after bus recovery

This parameter lets select if the Binary Input "x'' will send a telegram, or not, after a bus recovery and the type of telegram sent (if enabled).

- When "No action" is selected, no telegram will be sent after a bus recovery.
- When "Fixed value" is selected, the binary input will send a telegram with the same value configured in the "Value on rising edge" parameter. Also a new parameter will appear (see below).

> Sending delay after	10		
bus recovery (seconds)			
Figure 4.49 Parameter detail			

Sending delay after a bus recovery (seconds)

This parameter lets configure a delay (in seconds) that will be applied after a bus recovery and, after which, a telegram will be sent.

DPT to be sent

This parameter lets select the DPT type for the value that will be defined in the next parameter. This value will be sent on a rising edge (contact activated).

> DPT to be sent	DPT 12.001 (4byte)	•		
Figure 4.50 Parameter detail				

Value on rising edge (when contact activated)

This parameter lets define a value for the DTP type configured in the "DPT to be sent" parameter. This value will be sent on a rising edge (contact activated).

• When **"Execute Scene (internal)"** is selected, the binary input "x" will activate the scene defined in the next parameter, on a rising edge (contact activated).



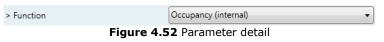
> Function	Execute Scene (internal)
> Scene when contact is activated (needs to be defined)	Scene 1 🔹

Figure 4.51 Parameter detail

Scene when contact is activated

This parameter lets choose the scene that will be activated on a rising edge. This scene MUST be defined in the "Scene Configuration" dialog as a preset.

 When "Occupancy (internal)" is selected, the binary input "x" will have the same behavior as configured in the parameter "Enable use of Occupancy function" inside the "Switch-Off Timeouts Configuration" dialog.



 When "Window Contact (internal)" is selected, the binary input "x" will have the same behavior as configured in the parameter "Enable use of Open Window / Switch off timeout function" inside the "Switch-Off Timeouts Configuration" dialog.

> Function	Window Contact (internal)	•
Figure 4.5	3 Parameter detail	



5. Specifications

Dimensions:	70 X 70 X 28 mm
Weight:	70 g
KNX current consumption:	5 mA
P1-P2 Bus current consumption:	45 mA
Operating Temperature:	-25 60°C
Stock Temperature:	-40 85°C
Isolation voltage:	2500 V
	4 x Potential-free binary inputs.
	Signal cable length: 5m uschielded, may be extended up to 20m with twisted.
Binary inputs	Compliant with the following standards:
	IEC61000-4-2: level 4 - 15kV (air discharge) - 8kV
	(contact discharge)
	MIL STD 883E-Method 3015-7: class3B



6. AC Unit Types compatibility.

A list of Daikin indoor unit models compatible with ${\tt INKNXDAI001R100}$ and their available features can be found in:

https://www.intesis.com/docs/compatibilities/inxxxdai001rx00 compatibility



7. Error Codes

Error Code KNX Object	Error in Remote Controller	Error category	Error Description
17	A0		External protection devices activated
18	A1		Indoor unit PCB assembly failure
19	A2		Interlock error for fan
20	A3		Drain level system error
21	A4		Temperature of heat exchanger (1) error
22	A5		Temperature of heat exchanger (2) error
23	A6		Fan motor locked, overload, over current
24	A7		Swing flap motor error
25	A8		Overcurrent of AC input
26	A9		Electronic expansion valve drive error
27	AA		Heater overheat
28	AH		Dust collector error / No-maintenance filter error
<u>30</u> 31	AJ AE		Capacity setting error (indoor) Shortage of water supply
32	AE		Malfunctions of a humidifier system (water leaking)
33	C0	Indoor Unit	Malfunctions in a sensor system
36	C3		Sensor system of drain water error
37	C4		Heat exchanger (1) (Liquid pipe) thermistor system error
38	C5	1	Heat exchanger (1) (Gas pipe) thermistor system error
39	C6	1	Sensor system error of fan motor locked, overload
40	C7		Sensor system of swing flag motor error
41	C8	1	Sensor system of over-current of AC input
42	C9	1	Suction air thermistor error
43	CA	1	Discharge air thermistor system error
44	СН		Contamination sensor error
45	CC		Humidity sensor error
46	CJ		Remote control thermistor error
47	CE		Radiation sensor error
48	CF		High pressure switch sensor
49	E0		Protection devices activated
50	E1		Outdoor uni9t PCB assembly failure
52	E3		High pressure switch (HPS) activated
53	E4		Low pressure switch (LPS) activated
54	E5		Overload of inverter compressor motor
55	E6		Over current of STD compressor motor
56	E7		Overload of fan motor / Over current of fan motor
57	E8		Over current of AC input
58	E9		Electronic expansion valve drive error
59	EA		Four-way valve error
60 61	EH EC		Pump motor over current Water temperature abnormal
62	EJ		(Site installed) Protection device activated
63	EE		Malfunctions in a drain water
64	EF		Ice thermal storage unit error
65	H0		Malfunctions in a sensor system
66	H1	1	Air temperature thermistor error
67	H2		Sensor system of power supply error
68	H3		High Pressure switch is faulty
69	H4		Low pressure switch is faulty
70	H5		Compressor motor overload sensor is abnormal
71	H6	Outdoor Unit	Compressor motor over current sensor is abnormal
72	H7		Overload or over current sensor of fan motor is abnormal
73 74	H8 H9		Sensor system of over-current of AC input
74	H9 HA		Outdoor air thermistor system error Discharge air thermistor system error
76	HH	1	Pump motor sensor system of over current is abnormal
77	HC	1	Water temperature sensor system error
79	HE	1	Sensor system of drain water is abnormal
80	HF	1	Ice thermal storage unit error (alarm)
81	F0]	No.1 and No.2 common protection device operates.
82	F1		No.1 protection device operates.
83	F2		No.2 protection device operates
84	F3		Discharge pipe temperature is abnormal
87	F6		Temperature of heat exchanger(1) abnormal
91	FA		Discharge pressure abnormal
92	FH		Oil temperature is abnormally high
93	FC		Suction pressure abnormal
95	FE		Oil pressure abnormal
96	FF		Oil level abnormal
97 98	J0 J1		Sensor system error of refrigerant temperature Pressure sensor error
98	J2		Current sensor error
33	J2	J	



100	J3		Discharge pipe thermistor system error
100			Low pressure equivalent saturated temperature sensor system error
102	J5		Suction pipe thermistor system error
103	J6		Heat exchanger(1) thermistor system error
104	J7		Heat exchanger(2) thermistor system error
105	J8		Oil equalizer pipe or liquid pipe thermistor system error
106	J9		Double tube heat exchanger outlet or gas pipe thermistor system error
107	JA		Discharge pipe pressure sensor error
108	JH		Oil temperature sensor error
109	JC		Suction pipe pressure sensor error
111	JE		Oil pressure sensor error
112	JF		Oil level sensor error
113	L0		Inverter system error
116	L3		Temperature rise in a switch box
117	L4		Radiation fin (power transistor) temperature is too high
118	L5		Compressor motor grounded or short circuit, inverter PCB fault
119	L6		Compressor motor grounded or short circuit, inverter PCB fault
120	L7		Over current of all inputs
121	L8		Compressor over current, compressor motor wire cut
122	L9		Stall prevention error (start-up error) Compressor locked, etc.
123	LA		Power transistor error
125	LC		Communication error between inverter and outdoor control unit
129	P0		Shortage of refrigerant (thermal storage unit)
130	P1		Power voltage imbalance, open phase
132	P3		Sensor error of temperature rise in a switch box
133	P4		Radiation fin temperature sensor error
134	P5		DC current sensor system error
135	P6		AC or DC output current sensor system error
136	P7		Total input current sensor error
142	PJ		Capacity setting error (outdoor)
145	UO		Low pressure drop due to insufficient refrigerant or electronic expansion valve error, etc.
146	U1		Reverse phase, Open phase
147	U2		Power voltage failure / Instantaneous power failure
148	U3		Failure to carry out check operation, transmission error
149	U4		Communication error between indoor unit and outdoor unit, communication error between outdoor unit and BS unit
150	U5		Communication error between remote control and indoor unit / Remote control board failure or setting
151	U6		error for remote control
151	06		Communication error between indoor units
152	U7	System	Communication error between outdoor units / Communication error between outdoor unit and ice thermal storage unit
153	U8	Gystem	Communication error between main and sub remote controllers (sub remote control error) / Combination error of other indoor unit / remote control in the same system (model)
154	U9		Communication error between other indoor unit and outdoor unit in the same system / Communication error between other BS unit and indoor/outdoor unit
155	UA		Combination error of indoor/BS/outdoor unit (model, quantity, etc.), setting error of spare parts PCB when replaced
156	UH		Improper connection of transmission wiring between outdoor and outdoor unit outside control adaptor
157	UC		Centralized address duplicated
158	UJ		Attached equipment transmission error
159	UE		Communication error between indoor unit and centralized control device
160	UF		Failure to carrey out check operation Indoor-outdoor, outdoor-outdoor communication error, etc.
209	60		All system error
616			
210	61		PC board error
211	62		Ozone density abnormal
211 212	62 63		Ozone density abnormal Contamination sensor error
211 212 213	62 63 64		Ozone density abnormal Contamination sensor error Indoor air thermistor system error
211 212 213 214	62 63 64 65		Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error
211 212 213 214 217	62 63 64 65 68		Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit)
211 212 213 214 217 219	62 63 64 65 68 68 6A		Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error
211 212 213 214 217 219 220	62 63 64 65 68 6A 6A 6H		Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error
211 212 213 214 217 219 220 221	62 63 64 65 68 6A 6A 6H 6C		Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element
211 212 213 214 217 219 220 221 222	62 63 64 65 68 6A 6H 6C 6J	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the high efficiency filter
211 212 213 214 217 219 220 221 222 223	62 63 64 65 68 6A 6H 6C 6J 6E	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the high efficiency filter Replace the deodorization catalyst
211 212 213 214 217 219 220 221 222 223 224	62 63 64 65 68 6A 6H 6C 6J 6E 6F	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the high efficiency filter Replace the deodorization catalyst Simplified remote controller error
211 212 213 214 217 219 220 221 222 223 222 223 224 226	62 63 64 65 68 6A 6A 6C 6J 6C 6J 6E 6F 51	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the heigh efficiency filter Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload
211 212 213 214 217 219 220 221 222 223 224 226 227	62 63 64 65 68 6A 6H 6C 6J 6E 6F 51 52	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload Fan motor of return air over current / Fan motor of return air overload
211 212 213 214 217 219 220 221 222 223 224 226 227 228	62 63 64 65 68 6A 6H 6C 6J 6F 51 52 53	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the high efficiency filter Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload Fan motor of return air over current / Fan motor of return air overload Inverter system error (supply air side)
211 212 213 214 217 219 220 221 222 223 224 226 227 228 229	62 63 64 65 68 6A 6H 6C 6J 6E 6F 51 52 53 54	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the high efficiency filter Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload Fan motor of return air over current / Fan motor of return air overload Inverter system error (return air side)
211 212 213 214 217 219 220 221 222 223 224 226 227 228 229 241	62 63 64 65 68 6A 6H 6C 6J 6C 6J 6E 51 52 53 54 40	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the high efficiency filter Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload Fan motor of return air over current / Fan motor of return air overload Inverter system error (return air side) Humidifying valve error
211 212 213 214 217 219 220 221 222 223 224 226 227 228 229 241 242	62 63 64 65 68 6A 6H 6C 6J 6E 6F 51 52 53 54 40 41	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload Far motor of return air over current / Fan motor of return air overload Inverter system error (return air side) Humidifying valve error
211 212 213 214 217 219 220 221 222 223 224 226 227 228 229 241 242 243	62 63 64 65 68 6A 6H 6C 6J 6C 6J 6E 51 52 53 54 40	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the hunidity element Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload Fan motor of return air over current / Fan motor of return air overload Inverter system error (return air side) Humidifying valve error Chilled water valve error Hot water valve error
211 212 213 214 217 219 220 221 222 223 224 226 227 228 229 241 242	62 63 64 65 68 6A 6H 6C 6J 6E 6F 51 52 53 54 40 41 42	Others	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the humidity element Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload Inverter system error (supply air side) Inverter system error (return air side) Humidifying valve error Chilled water valve error Humidifying of chilled water error
211 212 213 214 217 219 220 221 222 223 224 226 227 228 229 241 242 243 244	62 63 64 65 68 6A 6H 6C 6F 51 52 53 54 40 41 42 43	Others INKNXDAI001R100	Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error HVU error (Ventiair dust-collecting unit) Dumper system error Door switch error Replace the hunidity element Replace the deodorization catalyst Simplified remote controller error Fan motor of supply air over current or overload Fan motor of return air over current / Fan motor of return air overload Inverter system error (return air side) Humidifying valve error Chilled water valve error Hot water valve error

In case you detect an error code not listed, contact your nearest Daikin technical support service for more information on the error meaning.



Appendix A – Communication Objects Table

	OBJECT			DATAPOINT TYPE			FLAC	S		
TOPIC	NUMBER	NAME	LENGTH	DPT_NAME	DPT_ID	R	w	т	U	FUNCTION
On/Off	0	Control_ On/Off	1 bit	DPT_Switch	1.001		W	Т		0 - Off; 1-On
	1	Control_ Mode	1 byte	DPT_HVACContrMod e	20.105		W	Т		0 - Auto; 1 - Heat; 3 - Cool; 9 - Fan; 14 - Dry
	2	Control_ Mode Cool/Heat	1 bit	DPT_Heat/Cool	1.100		W	Т		0 - Cool; 1 - Heat
	3	Control_ Mode Cool & On	1 byte	DPT_Scaling	5.001		W	Т		0% - Off; 0.1%-100% - On + Cool
	4	Control_ Mode Heat & On	1 byte	DPT_Scaling	5.001		W	Т		0% - Off; 0.1%-100% - On + Heat
	5	Control_ Mode Auto	1 bit	DPT_Bool	1.002		W	Т		1 - Auto
Mode	6	Control_ Mode Heat	1 bit	DPT_Bool	1.002		W	Т		1 - Heat
	7	Control_ Mode Cool	1 bit	DPT_Bool	1.002		W	Т		1 - Cool
	8	Control_ Mode Fan	1 bit	DPT_Bool	1.002		W	Т		1 - Fan
	9	Control_ Mode Dry	1 bit	DPT_Bool	1.002		W	Т		1 - Dry
	10	Control_ Mode -/+	1 bit	DPT_Step	1.007		W			0 - Decrease; 1 - Increase
	10	Control_ Mode +/-	1 bit	DPT_UpDown	1.008		W			0 - Up; 1 - Down
		Control_ Fan Speed / 2 Speeds	1 byte	DPT_Scaling	5.001		W	Т		0%-74% - Speed 1; 75%-100% - Speed 2
	11	Control_ Fan Speed / 3 Speeds	1 byte	DPT_Scaling	5.001		W	Т		0%-49% - Speed 1; 50%-83% - Speed 2; 84%-100% Speed 3
Fan Speed		Control_ Fan Speed / 2 Speeds	1 byte	DPT_Enumerated	5.010		W	Т		1 - Speed 1; 2 - Speed 2
		Control_ Fan Speed / 3 Speeds	1 byte	DPT_Enumerated	5.010		W	Т		1 - Speed 1; 2 - Speed 2; 3 Speed 3
	12	Control_ Fan Speed Auto	1 bit	DPT_Bool	1.002		W	Т		1 - Set AUTO



	13	Control_ Fan Speed 1	1 bit	DPT_Bool	1.002	w	т	1 - Fan Speed 1
	14	Control_ Fan Speed 2	1 bit	DPT_Bool	1.002	W	Т	1 - Fan Speed 2
	15	Control_ Fan Speed 3	1 bit	DPT_Bool	1.002	W	Т	1 - Fan Speed 3
	16	Control_ Fan Speed -/+	1 bit	DPT_Step	1.007	W	Т	0 - Decrease; 1 - Increase
	10	Control_ Fan Speed +/-	1 bit	DPT_UpDown	1.008	W	Т	0 - Up; 1 - Down
	17	Control_ Vane U-D / 5 pos	1 byte	DPT_Scaling	5.001	W	Т	0%-29% - Pos1; 30%-49% - Pos2; 50%-69% Pos3; 70%-89% - Pos4; 90%-100% - Pos5
		Control_ Vane U-D / 5 pos	1 byte	DPT_Enumerated	5.010	w	Т	1 - Pos1; 2 - Pos2; 3 - Pos3; 4 - Pos4; 5 - Pos5
	18	Control_ Vane U-D Pos1	1 bit	DPT_Bool	1.002	W	т	1 - Position 1
	19	Control_ Vane U-D Pos2	1 bit	DPT_Bool	1.002	w	т	1 - Position 2
Vanes	20	Control_ Vane U-D Pos3	1 bit	DPT_Bool	1.002	w	т	1 - Position 3
	21	Control_ Vane U-D Pos4	1 bit	DPT_Bool	1.002	W	Т	1 - Position 4
	22	Control_ Vane U-D Pos5	1 bit	DPT_Bool	1.002	W	т	1 - Position 5
	23	Control_ Vane U-D Swing	1 bit	DPT_Bool	1.002	W	Т	0 - Stop; 1 - Swing
	24	Control_ Vane U-D -/+	1 bit	DPT_Step	1.007	W		0 - Decrease; 1 - Increase
	24	Control_ Vane U-D +/-	1 bit	DPT_UpDown	1.008	W		0 - Up; 1 - Down
	25	Control_ Setpoint Temperature	2 bytes	DPT_Value_Temp	9.001	W	Т	16ºC to 32ºC
Tomportune	26	Control_ Setpoint Temp -/+	1 bit	DPT_Step	1.007	W		0 - Decrease; 1 - Increase
Temperature	26	Control_ Setpoint Temp +/-	1 bit	DPT_UpDown	1.008	W		0 - Up; 1 - Down
	27	Control_ Ambient Temperature	2 bytes	DPT_Value_Temp	9.001	W	Т	°C value in EIS5 format
T ime 1		Control_ Window Contact Status	1 bit	DPT_OpenClose	1.009	W	Т	0 - Open; 1 - Closed
Timeout	28	Control_ Switch Off Timeout	1 bit	DPT_Start	1.010	W	Т	0 - Stop; 1 - Start



	29	Control_ Occupancy	1 bit	DPT_Occupancy	1.018	w	т	0 - Not Occupied; 1 - Occupied
	30	Control_ Start Sleep Timeout	1 bit	DPT_Start	1.010	W	т	0 - Stop; 1 - Start
Locking	31	Control_ Lock Remote Control	1 bit	DPT_Bool	1.002	w	т	0 - Unlocked; 1 - Locked
Locking	32	Control_ Lock Control Objects	1 bit	DPT_Bool	1.002	w	т	0 - Unlocked; 1 - Locked
	33	Control_ Power Mode	1 bit	DPT_Start	1.010	w	Т	0 - Stop; 1 - Start
Special Modes	34	Contorl_ Econo Mode	1 bit	DPT_Start	1.010	w	Т	0 - Stop; 1 - Start
Special Houes	35	Control_ Additional Heat	1 bit	DPT_Start	1.010	w	Т	0 - Stop; 1 - Start
	36	Control_ Additional Cool	1 bit	DPT_Start	1.010	W	Т	0 - Stop; 1 - Start
	37	Control_ Save/Exec Scene	1 byte	DPT_SceneControl	18.001	w	т	0 to 4 - Exec. Scene 1 to 5; 128 to 132 - Save Scene 1 to 5
	38	Control_ Store Scene1	1 bit	DPT_Bool	1.002	W		1 - Store Scene
	39	Control_ Store Scene2	1 bit	DPT_Bool	1.002	w		1 - Store Scene
	40	Control_ Store Scene3	1 bit	DPT_Bool	1.002	w		1 - Store Scene
	41	Control_ Store Scene4	1 bit	DPT_Bool	1.002	w		1 - Store Scene
Scenes	42	Control_ Store Scene5	1 bit	DPT_Bool	1.002	w		1 - Store Scene
	43	Control_ Execute Scene1	1 bit	DPT_Bool	1.002	w	Т	1 - Execute Scene
	44	Control_ Execute Scene2	1 bit	DPT_Bool	1.002	w	т	1 - Execute Scene
	45	Control_ Execute Scene3	1 bit	DPT_Bool	1.002	w	т	1 - Execute Scene
	46	Control_ Execute Scene4	1 bit	DPT_Bool	1.002	w	Т	1 - Execute Scene
	47	Control_ Execute Scene5	1 bit	DPT_Bool	1.002	w	Т	1 - Execute Scene
Disabling	40	Control_ Disable Input 1	1 bit	DPT_Bool	1.002	w	т	0 - Enable; 1 - Disable
Disabling	48	Control_ Disable Input 1	1 bit	DPT_Enable	1.003	W	т	0 - Disable; 1 - Enable



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	49	Control_ Disable Input 2	1 bit	DPT_Bool	1.002		w	Т	0 - Enable; 1 - Disable
	49	Control_ Disable Input 2	1 bit	DPT_Enable	1.003		W	т	0 - Disable; 1 - Enable
	50	Control_ Disable Input 3	1 bit	DPT_Bool	1.002		w	Т	0 - Enable; 1 - Disable
	50	Control_ Disable Input 3	1 bit	DPT_Enable	1.003		w	Т	0 - Disable; 1 - Enable
	F1	Control_ Disable Input 4	1 bit	DPT_Bool	1.002		w	Т	0 - Enable; 1 - Disable
	51	Control_ Disable Input 4	1 bit	DPT_Enable	1.003		w	т	0 - Disable; 1 - Enable
On/Off	53	Status_ On/Off	1 bit	DPT_Switch	1.001	R		т	0 - Off; 1-On
	54	Status_ Mode	1 byte	DPT_HVACContrMod e	20.105	R		т	0 - Auto; 1 - Heat; 3 - Cool; 9 - Fan; 14 - Dry
	55	Status_ Mode Cool/Heat	1 bit	DPT_Heat/Cool	1.100	R		Т	0 - Cool; 1 - Heat
	56	Status_ Mode Auto	1 bit	DPT_Bool	1.002	R		Т	1 - Auto
Mode	57	Status_ Mode Heat	1 bit	DPT_Bool	1.002	R		Т	1 - Heat
Moue	58	Status_ Mode Cool	1 bit	DPT_Bool	1.002	R		Т	1 - Cool
	59	Status_ Mode Fan	1 bit	DPT_Bool	1.002	R		Т	1 - Fan
	60	Status_ Mode Dry	1 bit	DPT_Bool	1.002	R		Т	1 - Dry
	61	Status_ Mode Text	14 bytes	DPT_String_8859_1	16.001	R		Т	ASCII String
		Status_ Fan Speed / 2 Speeds	1 byte	DPT_Scaling	5.001	R		Т	50% - Speed 1; 100% - Speed 2
	62	Status_ Fan Speed / 3 Speeds	1 byte	DPT_Scaling	5.001	R		Т	33% - Speed 1; 67% - Speed 2; 100% - Speed 3
	02	Status_ Fan Speed / 2 Speeds	1 byte	DPT_Scaling	5.001	R		т	1 - Speed 1; 2 - Speed 2
Fan Speed		Status_ Fan Speed / 3 Speeds	1 byte	DPT_Scaling	5.001	R		Т	1 - Speed 1; 2 - Speed 2; 3 - Speed 3
	63	Status_Fan Speed AUTO	1 bit	DPT_Bool	1.002	R		т	1 – Fan AUTO enable; 0 – Fan AUTO disabled
	64	Status_ Fan Speed 1	1 bit	DPT_Bool	1.002	R		Т	1 - Speed 1
	65	Status_ Fan Speed 2	1 bit	DPT_Bool	1.002	R		т	1 - Speed 2



Intesis[™] KNX - Daikin A.C. (SKY & VRV line)

	66	Status_ Fan Speed 3	1 bit	DPT_Bool	1.002	R		т	1 - Speed 3
	67	Status_ Fan Speed Text	14 bytes	DPT_String_8859_1	16.001	R		т	ASCII String
	68	Status_ Vane U-D / 5 pos	1 byte	DPT_Scaling	5.001	R		т	20% - Pos1; 40% - Pos2; 60% - Pos3; 80% - Pos4; 100% - Pos5
		Status_ Vane U-D / 5 pos	1 byte	DPT_Enumerated	5.010	R		Т	1 - Pos1; 2 - Pos2; 3 - Pos3; 4 - Pos4; 5 - Pos5
	69	Status_ Vane U-D Pos1	1 bit	DPT_Bool	1.002	R		Т	1 - Position 1
	70	Status_ Vane U-D Pos2	1 bit	DPT_Bool	1.002	R		Т	1 - Position 2
Vanes	71	Status_ Vane U-D Pos3	1 bit	DPT_Bool	1.002	R		Т	1 - Position 3
	72	Status_ Vane U-D Pos4	1 bit	DPT_Bool	1.002	R		т	1 - Position 4
	73	Status_ Vane U-D Pos5	1 bit	DPT_Bool	1.002	R		Т	1 - Position 5
	74	Status_ Vane U-D Swing	1 bit	DPT_Bool	1.002	R		т	0 - Stop; 1 - Swing
	75	Status_ Vane U-D Text	14 bytes	DPT_String_8859_1	16.001	R		Т	ASCII String
Temperature	76	Status_ AC Setpoint Temp	2 bytes	DPT_Value_Temp	9.001	R		Т	16°C to 32°C
remperature	77	Status_ AC Return Temp	2 bytes	DPT_Value_Temp	9.001	R		Т	°C value in EIS5 format
	78	Status_ Error/Alarm	1 bit	DTP_Alarm	1.005	R		Т	0 - No Alarm; 1 - Alarm
Error	79	Status_ Error Code	2 bytes	Enumerated		R		т	0 - No Error; Any other see user's manual
	80	Status_ Error Text	14 bytes	Character string (ISO 8859-1)	16.001	R		т	2 char Daikin Error; Empty no error
Locking	81	Status_Lock Remote Control	1 bit	DPT_Bool	1.002		W	Т	0 - Unlocked; 1 - Locked
Locking	82	Status_Lock Control Objects	1 bit	DPT_Bool	1.002		W	Т	0 - Unlocked; 1 - Locked
	83	Status_ Power Mode	1 bit	DPT_Switch	1.001	R		Т	0 - Off; 1-On
Special Modes	84	Status_ Econo Mode	1 bit	DPT_Switch	1.001	R		Т	0 - Off; 1-On
	85	Status_ Additional Heat	1 bit	DPT_Switch	1.001	R		Т	0 - Off; 1-On



	86	Status_ Additional Cool	1 bit	DPT_Switch	1.001	R	т	0 - Off; 1-On
O rauttau	87	Status_ Operation Hour Counter	2 bytes	DPT_Value_2_Ucou nt	7.001	R	Т	Number of operating hours
Counter	88	Status_ Operation Second Counter	4 bytes	DPT_Value_counter pulses (signed)	13.001	R	Т	Number of operating seconds
Scene	89	Status_ Current Scene	1 byte	DPT_Scene Number	17.001	R	т	0 to 4 - Scene 1 to 5; 63 - No Scene
	90	Legacy_ Mode	1 byte	Enumerated		R	т	0 - Auto; 1 - Heat; 2 - Dry; 3 - Fan; 4 - Cool
Legacy	91	Legacy_ Fan Speed	1 byte	Enumerated		R	Т	0 - Speed 1; 1 - Speed 2; 2 - Speed 3
	92	Legacy_ Vanes Up-Down	1 byte	Enumerated		R	Т	0 to 4 - Pos 1 to Pos 5; 5 - Swing
		Status_ In1 - Switching	1 bit	DPT_Switch	1.001	R	Т	0 - Off; 1-On
Binary Inputs	93	Status_ In1 - Dimming - On/Off	1 bit	DPT_Switch	1.001	R	т	0 - Off; 1-On
	93	Status_ In1 - Shut/Blind - Step	1 bit	DPT_ShutterBlinds	1.023	R	т	0 – step up; 1 – step down
	94	Status_ In1 – Dimming – Step (%)	4 bits	DPT_Dimming control	3.007	R	Т	0 – increasing step; 1 – decreasing step
		Status_ In1 - Shut/Blind - Move	1 bit	DPT_up/down	1.008	R	т	0 – move up; 1 - move down
		Status_ In1 - Value	1 byte	DPT_Value_1_Ucou nt	5.010	R	Т	1 - byte unsigned value
		Status_ In2 - Switching	1 bit	DPT_Switch	1.001	R	т	0 - Off; 1-On
Binary inputs	95	Status_ In2 – Dimming - On/Off	1 bit	DPT_Switch	1.001	R	т	0 - Off; 1-On
billary inputs		Status_ In2 - Shut/Blind - Step	1 bit	DPT_ShutterBlinds	1.023	R	т	0 – step up; 1 – step down
		Status_ In2 – Dimming – Step (%)	4 bits	DPT_Dimming control	3.007	R	Т	0 – increasing step; 1 – decreasing step
	96	Status_ In2 - Shut/Blind - Move	1 bit	DPT_up/down	1.008	R	т	0 – move up; 1 - move down
		Status_ In2 - Value	1 byte	DPT_Value_1_Ucou nt	5.010	R	Т	1 - byte unsigned value
	97	Status_ In3 - Switching	1 bit	DPT_Switch	1.001	R	Т	0 - Off; 1-On
	37	Status_ In3 – Dimming - On/Off	1 bit	DPT_Switch	1.001	R	Т	0 - Off; 1-On

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		Status_ In3 - Shut/Blind - Step	1 bit	DPT_ShutterBlinds	1.023	R	Т	0 – step up; 1 – step down
		Status_ In3 – Dimming – Step (%)	4 bits	DPT_Dimming control	3.007	R	Т	0 – increasing step; 1 – decreasing step
	98	Status_ In3 – Shut/Blind – Move	1 bit	DPT_up/down	1.008	R	Т	0 – move up; 1 - move down
		Status_ In3 - Value	1 byte	DPT_Value_1_Ucou nt	5.010	R	Т	1 - byte unsigned value
		Status_ In4 - Switching	1 bit	DPT_Switch	1.001	R	Т	0 - Off; 1-On
	99	Status_ In4 - Dimming - On/Off	1 bit	DPT_Switch	1.001	R	Т	0 - Off; 1-On
		Status_ In4 – Shut/Blind - Step	1 bit	DPT_ShutterBlinds	1.023	R	Т	0 – step up; 1 – step down
	100	Status_ In4 – Dimming – Step (%)	4 bits	DPT_Dimming control	3.007	R	Т	0 – increasing step; 1 – decreasing step
Pinany inpute	100	Status_ In4 – Shut/Blind – Move	1 bit	DPT_up/down	1.008	R	Т	0 – move up; 1 - move down
Binary inputs	100	Status_ In4 - Value	1 byte	DPT_Value_1_Ucou nt	5.010	R	Т	1 - byte unsigned value

