

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

Compatible with Domestic line air conditioner commercialized by Daikin Application's Program Version: 0.4

USER MANUAL

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Important User Information

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

Compatible with Domestic line air conditioners commercialised by Daikin.

ORDER CODE		LEGACY ORDER CODE
	INKNXDAI001I000	DK-AC-KNX-1

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1. Presentation

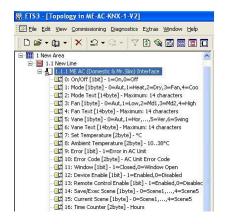


INKNXDAI001I000 allows a complete and natural integration of Daikin air conditioners with KNX control systems.

Compatible with all models of Domestic line of air conditioners.

Main features:

- Reduced dimensions. Installation even inside the A.C. indoor unit.
- Quick and non visible installation.
- External power not required.
- Direct connection to the KNX EIB bus.
- Direct connection to the AC indoor unit.
- Fully KNX interoperable, configuration from ETS.
- Multiple objects for control (of different types: bit, byte, characters...).
- 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 IR remote control of the AC unit and by
- Up to 2 scenes can be saved and executed from KNX, fixing the desired combination of Operation Mode, Set Temperature, Fan Speed, and Swing in any moment by using a simple Switching type object.



2. Connection

The interface comes with a cable (1 meter long) for direct connection to the internal control board of the AC indoor unit.

Connection of the interface to the AC indoor unit:

Disconnect mains power from the AC unit. Open the front cover of the indoor unit in order to have access to the internal control board. In the control board locate the socket connector marked as:

in Domestic line models **S21**

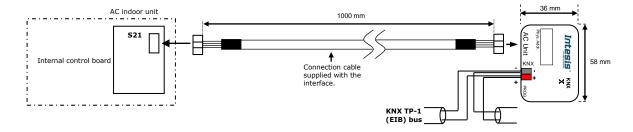
Using the cable that comes with the interface, insert its smaller connector into the socket of the INKNXDAI001I000 marked as **AC Unit**, and the other connector, the biggest one, into the socket **S21** of the AC unit's control board. Fix the INKNXDAI001I000 inside or outside the AC indoor unit depending on your needs - remember that INKNXDAI001I000 must be also connected to the KNX bus. Close the AC indoor unit's front cover again.

IMPORTANT: Do not modify the length of the cable supplied with the interface, it may affect to the correct operation of the interface.

Connection of the interface to the KNX bus:

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

Connections diagram:



3. Configuration and setup

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

ETS project for this device can be donwloaded from:

https://intesis.com/products/ac-interfaces/daikin-gateways/daikin-knx-ac-dk-ac-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 model of AC indoor unit connected to the interface, this is in "Parameters" of the device in ETS.

4. KNX communication objects

Main Objects.

Object #	0
Name	On/Off [1bit]
Function	1=On, 0=Off
Description	This object is used to Start (On) and Stop (Off) the AC unit
Access type	Read/Write
Data type ID	1.001

Object #	1
Name	Mode [1byte]
Function	0=Aut, 1=Heat, 2=Dry, 3=Fan, 4=Cool
Description	This object is used to monitor the Operation Mode in the AC unit
Access type	Read/Write
Data type ID	5

Object #	2
Name	DPTHvacContrMode [1byte]
Function	0=Aut, 1=Heat, 3=Cool, 9=Fan, 14=Dry
Description	This object is used to monitor the Operation Mode in the AC unit
Access type	Read/Write
Data type ID	20.105

Object #	3
Name	DPT Heat/Cool [1bit]
Function	0=Cool, 1=Heat
Description	This object is used to monitor the Operation Mode in the AC unit. Writing a 0 sets the Operation Mode to Cool. Writing 1 sets the Operation Mode to Heat. Setting the Operation Mode to Heat (through Mode object or DPTHvacContrMode object) sets this object to 1. Setting the Operation Mode to any other (but Heat) sets this object to 0.
Access type	Read/Write
Data type ID	1.100

Object #	4
Name	Mode Text [14 bytes]
Function	14 characters maximum
Description	This object is a text description of the selected Operation Mode
Access type	Read-only
Data type ID	16.001

Object #	14
Name	Fan [1byte]
Function	0=Aut, 1=Low, 2=Md1, 3=Md2, 4=Md3, 5=High
Description	This object is used to monitor the Fan speed in the AC unit
Access type	Read/Write
Data type ID	5

Object #	15
Name	Fan Text [14 bytes]
Function	14 characters maximum
Description	This object is a text description of the selected Fan speed
Access type	Read-only
Data type ID	16.001

Object #	23
Name	Swing [1byte]
Function	0=Off, 1=Vertical Swing, 2=Horizontal Swing, 3=Both
Description	Swing working mode in the AC unit
Access type	Read/Write
Data type ID	5

Object #	24
Name	Swing Text [14 bytes]
Function	14 characters maximum
Description	This object is a text description of the selected Swing mode
Access type	Read-only
Data type ID	16.001

Object #	33
Name	Humidifying Mode [2bytes]
Function	0=Off, 1=Low, 2=Standard, 3=High, 4=Continuous
Description	Working mode of AC unit's Humidifier (URURU SARARA model only)
Access type	Read/Write
Data type ID	5

Object #	34
Name	Humidifying Text [14bytes]
Function	14 characters maximum
Description	This object is a text description of the selected Humidifying mode
Access type	Read-only
Data type ID	16.001

Object #	10
Name	Set Temperature A.C. [2bytes]
Function	3116°C or 3010°C or 3218°C depending on operation mode, see
	AC unit table below
Description	This object controls the temperature setpoint of the AC unit. Value is
	meant to be used to set the temperature of the AC unit only when
	"Virtual Temperature Control" parameter is inactive (set to "No"),
	always can be read and reflects the current setpoint in the AC unit.
Access type	Read/Write
Data type ID	9.001

Object #	27
Name	Error [1bit]
Function	0-No Error, 1-Operation Error
Description	This object, when set to 1, indicates either an error in the AC unit or
	communication failure between AC unit and INKNXDAI001I000.
Access type	Read-only
Data type ID	1.005

Object #	28
Name	Error Code [2bytes]
Function	AC Unit Error Code
Description	This object indicates the Error Code of the AC unit. Note that a value of 0 indicates "no error" condition; 555 indicates communication error between INKNXDAI001I000 and the AC Unit. Consult further error codes in the list below.
Access type	Read-only
Data type ID	7

Object #	40
Name	Save/Execute Scene [1byte]
Function	For Storing: 128=Scene1, 129=Scene2
	For Executing: 0=Scene1, 1=Scene2
Description	This object is used for storing/executing a scene (a scene is a given combination of set values for Operation Mode, Setpoint Temperature, Fan Speed, Swing Mode, and Humidifying Mode in the AC unit). The actual combination of these values is stored in INKNXDAI001I000's eeprom when storing and retrieved from memory and set in the AC unit when executing.
Access type	Write-only
Data type ID	18.001

Object #	41
Name	Current Scene [1byte]
Function	0=Scene1, 1=Scene2
Description	This object is used to monitor the active scene (a scene is a given combination of set values for Operation Mode, Setpoint Temperature, Fan Speed, Swing Mode Humidifying Mode in the AC unit).
Access type	Read-only
Data type ID	17.001

Object #	32
Name	Time Counter [2byte]
Function	0 65535 hours
Description	This object indicates the AC indoor unit's operation time (in hours). Value is stored in INKNXDAI001I000's eeprom. This value can be used for maintenance control of AC indoor unit's filter, as well as for monitoring AC unit's operation time. Set to 0 for clearing its value after filter maintenance.
Access type	Read/Write
Data type ID	7.001

Object #	12
Name	Set Temperature Virtual [2bytes]
Function	3116°C or 3010°C or 3218°C depending on operation mode, see
	AC unit table below
Description	This object is used to set the temperature of the AC unit when the ambient temperature is also supplied from KNX, i.e. from a KNX temperature sensor (thermostat). Value is used by INKNXDAI001I000 only when "Virtual Temperature Control" parameter is active (set to "Yes"). See "Virtual Ambient Temperature" communication object and "Virtual Temperature Control" parameter. Object's value is read from KNX bus on startup.
Access type	Write-only
Data type ID	9.001

Object #	13
Name	Ambient Temperature Virtual [2bytes]
Function	1038°C
Description	This object is used to indicate to the AC unit the present ambient temperature measured by an external KNX sensor. Value is used by INKNXDAI001I000 only when "Virtual Temperature Control" parameter is active (set to "Yes"). See "Virtual Set Temperature" communication object and "Virtual Temperature Control" parameter. Object's value is read from KNX bus on startup.
Access type	Write-only
Data type ID	9.001

Ancillary Objects.

Object #	29
Name	Window [1bit]
Function	0=Open, 1=Close
Description	Indicates to the AC unit the status of the room's window. If opened, after the minutes indicated in the parameter "Minutes Window", the AC unit will be switched off automatically. The AC unit will remain OFF while the window is open. If "Minutes Window" is 0, the AC unit will be switched off immediately. Object's value is read from bus on startup.
Access type	Write-only
Data type ID	1.009

Object #	30
Name	Device Enable [1bit]
Function	0=Disabled,1= Enabled
Description	This object indicates wheter the INKNXDAI001I000 is enabled or disabled. Value is stored in INKNXDAI001I000's eeprom. If disabled, the only active object of INKNXDAI001I000 will be this one – the rest of objects will not be operative. To enable INKNXDAI001I000 again, set this object back to 1. Factory value for this object is "1-Enabled".
Access type	Read/Write
Data type ID	1.003

Object #	31
Name	Remote Control Enable [1bit]
Function	0=Disabled, 1=Enabled
Description	This object is used to disable/enable the AC indoor unit's remote
	control. Value is stored in INKNXDAI001I000's eeprom. If enabled,
	the AC unit can be controlled simultaneously by both, AC unit's
	remote control and KNX. Factory value for this object is "1-Enabled".
Access type	Read/Write
Data type ID	1.003

Bit Objects for selection of Operation Mode. Only one among these five objects will be active in any moment. If 1 is written in any of them, all others will be forced to zero. If the AC unit changes its Operation Mode, the corresponding object will be activated (1) while all others will be forced to zero.

Object #	5
Name	Mode Auto [1bit]
Function	1=Mode Auto Active
Description	Indicates or activates this Operation Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	6
Name	Mode Heat [1bit]
Function	1=Mode Heat Active
Description	Indicates or activates this Operation Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	7
Name	Mode Dry [1bit]
Function	1=Mode Dry Active
Description	Indicates or activates this Operation Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	8
Name	Mode Cool [1bit]
Function	1=Mode Cool Active
Description	Indicates or activates this Operation Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	9
Name	Mode Fan [1bit]
Function	1=Mode Ventilation Active
Description	Indicates or activates this Operation Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Bit Object for Increasing/Decreasing Fan Speed.

Object #	16
Name	Fanspeed [+/-][1bit]
Function	0=Decrease, 1=Increase / 0=Up, 1=Down
Description	When the parameter "Fanspeed [+/-] Switching Object Type" is set to DPT_Step: • With every write of 0, the fan speed decreases in one step • Writing 1 increases the speed in one step When the parameter "Fanspeed [+/-] Switching Object Type" is set to DPT_UpDown: • With every write of 0, the fan speed increases in one step • Writing 1 decreases the speed in one step If speed is incremented when the maximum is reached, it changes to automatic. If speed is incremented when the maximum is reached, it changes to low speed. The operation in opposite direction is
	analogous.
Access type	Write-only
Data type ID	1.007 / 1.008

Bit Objects for Selection of Fan Speed. Only one among these six objects will be active in any moment. If 1 is written in any of them, all others will be forced to zero. If AC unit changes its Fan Speed, the corresponding object will be activated (1) while all others will be forced to zero.

Object #	18
Name	Fan Low [1bit]
Function	1=Fan Low
Description	Indicates or activates this Fan speed with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	19
Name	Fan Mid1 [1bit]
Function	1=Fan Middle1
Description	Indicates or activates this Fan speed with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	20
Name	Fan Mid2 [1bit]
Function	1=Fan Middle2
Description	Indicates or activates this Fan speed with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	21
Name	Fan Mid3 [1bit]
Function	1=Fan Middle3
Description	Indicates or activates this Fan speed with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	22
Name	Fan High [1bit]
Function	1=Fan High
Description	Indicates or activates this Fan speed with a value of 1.
Access type	Read/Write
Data type ID	1.002

Bit Objects for selecting Swing Mode. If AC unit's mode allows doing so, both objects can be active at the same time

Object #	25
Name	Swing Vertical [1bit]
Function	1=Enable Vertical Swing (Up/Down) 0=Disable Vertical Swing
Description	Indicates or activates Vertical Swing
Access type	Read/Write
Data type ID	1.001

Object #	26
Name	Swing Horizontal [1bit]
Function	1=Enable Vertical Swing (Left/Right) 0=Disable Vertical Swing
Description	Indicates or activates Horizontal Swing
Access type	Read/Write
Data type ID	1.001

Bit Objects for Selection of Humidifying Mode. Only one among these five objects will be active in any moment. If 1 is written in any of them, all others will be forced to zero. If AC unit changes its Fan Speed, the corresponding object will be activated (1) while all others will be forced to zero.

If AC unit changes its Operation Mode (Auto, Heat, Cool, ...) Humidifying Mode will be automatically set to Off

Object #	35
Name	Humidifying Off [1bit]
Function	1=Humidifying Mode Off
Description	Indicates or activates this Humidifying Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	36
Name	Humidifying Low [1bit]
Function	1=Humidifying Low
Description	Indicates or activates this Humidifying Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	37
Name	Humidifying Standard [1bit]
Function	1=Humidifying Standard
Description	Indicates or activates this Humidifying Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	38
Name	Humidifying High [1bit]
Function	1=Humidifying High
Description	Indicates or activates this Humidifying Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Object #	39
Name	Humidifying Continuous [1bit]
Function	1=Humidifying Continuous
Description	Indicates or activates this Humidifying Mode with a value of 1.
Access type	Read/Write
Data type ID	1.002

Bit Object for changing Setpoint Temperature.

Object #	11
Name	Set Temperature [+/-][1bit]
Function	0=Decrease, 1= Increase / 0=Up, 1=Down
Description	 When the parameter "Set Temperature [+/-] Switching Object Type" is set to DPT_Step: With every write of 0, the temperature setpoint decreases in one degree Writing 1 increases in one degree When the parameter "Set Temperature [+/-] Switching Object Type" is set to DPT_Step: With every write of 0, the temperature setpoint increases in one degree Writing 1 decreases in one degree When the maximum or minimum setpoint temperature is reached it stops increasing or decreasing. Value is meant to be written only when "Virtual Temperature Control" parameter is inactive (set to "No").
Access type	Write-only
Data type ID	1.007 / 1.008

Bit Object for storing scenes.

Object #	42
Name	Save Scene1 [1bit]
Function	1=Save Scene 1
Description	Setting this object to 1 forces INKNXDAI001I000 to store in eeprom memory the current set values of Operation Mode, Setpoint Temperature, Fan Speed, Swing Mode and Humidifying Mode for scene 1.
Access type	Write-only
Data type ID	1.002

Object #	43
Name	Save Scene2 [1bit]
Function	1=Save Scene 2
Description	Setting this object to 1 forces INKNXDAI001I000 to store in eeprom memory the current set values of Operation Mode, Setpoint Temperature, Fan Speed, Swing Mode and Humidifying Mode for scene 2.
Access type	Write-only
Data type ID	1.002

Bit Objects for executing scenes.

Object #	44
Name	Execute Scene1 [1bit]
Function	1=Execute scene 1
Description	Setting this object to 1 forces INKNXDAI001I000 to retrieve from eeprom the values for scene 1, setting up its Operation Mode, Setpoint Temperature, Fan Speed, Swing Mode and Humidifying Mode in the AC unit accordingly. These values should have been saved previously using object Save Scene1.
Access type	Write-only
Data type ID	1.002

Object #	46
Name	Execute Scene2 [1bit]
Function	1=Execute scene 2
Description	Setting this object to 1 forces INKNXDAI001I000 to retrieve from eeprom the values for scene 2, setting up its Operation Mode, Setpoint Temperature, Fan Speed, Swing Mode and Humidifying Mode in the AC unit accordingly. These values should have been saved previously using object Save Scene2.
Access type	Write-only
Data type ID	1.002

Bit objects showing Auto Mode

Nº de Objeto	46
Nombre	Auto Heat [1bit]
Función	1=AC Unit is in Heat Mode
Descripción	Indicates this Operation Mode with a value of 1.
Tipo de acceso	Read-only
ID tipo de dato	1.002

Nº de Objeto	47
Nombre	Auto Cool [1bit]
Función	1=AC Unit is in Cool Mode
Descripción	Indicates this Operation Mode with a value of 1.
Tipo de acceso	Read-only
ID tipo de dato	1.002

5. Parameters.

Name	AC Unit type
Description	Indicates the type of AC indoor unit. Select the model of your AC
	indoor unit from the list of models available. Factory value is type
	CONVENTIONAL. Main features for each AC unit type will be shown in
	a textbox below this parameter
Data type	Enum (8bits); CONVENTIONAL

Name	Window minutes
Description	Minutes to wait before switching the AC unit OFF after receiving the indication of window open. If 0, the AC unit will be switched off immediately. While in OFF, and with window open, if it receives an order to switch ON, the timer will be initialised and the AC unit will be switched OFF after the configured minutes. (030 minutes). Factory value is 0.
Data type	Unsigned (8bits); 030

Name	Send object values to KNX on startup
Description	Indicates if INKNXDAI001I000 will send to KNX the object values indicating AC Unit status at power-up (when KNX bus is plugged to INKNXDAI001I000). Objects indicating AC Unit status are: "Mode", "Fan Speed", "Swing Mode", "Humidifying Mode" and "Set Temperature".
Data type	Enum (8bits); Yes/No

Name	When window closes go to last state
Description	Defines behaviour of AC unit once window is closed, after AC unit has been switched OFF as a result of an open window timeout: • If this parameter is set to "Yes", last value that was written from KNX to object "On/Off" will be sent to the AC unit. • If it is set to "No", the AC unit will be left in OFF state until a new ON request is received from KNX.
Data type	Enum (8bits); Yes/No

Name	Virtual Temperature Control
Description	Meant to be enabled when you want the temperature provided by a KNX sensor to be the reference ambient temperature for the air conditioner. When enabled, the communication objects "Set Temperature Virtual" and "Ambient Temperature Virtual" are used to provide the setpoint and ambient temperatures respectively from KNX. When enabled, the following formula applies for calculation of real Set Temperature sent to the AC unit:
	"Set Temperature A.C."= "Set Temperature Virtual" - ("Ambient Temperature Virtual" - "Set Temperature Virtual")/2
	When enabled, "Set Temperature A.C." object is meant not to be written, is only for information purposes to know in each moment the real setpoint sent to the air conditioner. When disabled, "Set Temperature Virtual" and "Ambient Temperature Virtual" objects are not present.
Data type	Enum (8bits); Yes/No

Name	Operating Mode Byte Object Type
Description	 When "Enumeration" is selected, Mode object is shown and DPTHvacContrMode object is hidden When "DPT_HvacControlling" is selected, DPTHvacContrMode object is shown and Mode object is hidden When "Both" is selected, both Mode and DPTHvacContrMode objects are shown
Data type	Enum (8bits); Enumeration/DPT_HvacControlling/Both
Name	Fanspeed [+/-] Switching Object Type
Description	Selects data type for Fan Speed [+/-] object:

Name	Fanspeed [+/-] Switching Object Type
Description	Selects data type for Fan Speed [+/-] object:
	 When "DPT_ Step" is selected, Fan Speed [+/-] object works
	in Step logic: 0=Decrease, 1=Increase
	 When "DPT_UpDown" is selected, Fan Speed [+/-] object
	works in Up/Down logic: 0=Up, 1=Down
Data type	Enum (8bits); DPT_Step/DPT_UpDown

Name	Set Temperature [+/-] Switching Object Type
Description	Selects data type for Set Temperature [+/-] object:
	 When "DPT_ Step" is selected, Set Temperature [+/-] object
	works in Step logic: 0=Decrease, 1=Increase
	 When "DPT_UpDown" is selected, Set Temperature [+/-]
	object works in Up/Down logic: 0=Up, 1=Down
Data type	Enum (8bits); DPT_Step/DPT_UpDown

Name	Show Device Objects
Description	Show/Hide bit objects for Window, Device Enable and Remote Control Enable
	Litable
Data type	Enum (8bits); Yes/No

Name	Show Mode Bits
Description	Show/Hide Mode bit objects
Data type	Enum (8bits); Yes/No

Name	Show Fan Bits
Description	Show/Hide Fan Speed bit objects
Data type	Enum (8bits); Yes/No

Name	Show Swing Bits
Description	Show/Hide Swing Mode bit objects
Data type	Enum (8bits); Yes/No

Name	Show Humidifying Objects
Description	Show/Hide Swing Mode objects
Data type	Enum (8bits); Yes/No

Name	Show Humidifying Bits
Description	Show/Hide Humidifying Mode bit objects
Data type	Enum (8bits); Yes/No

Name	Show Scene Objects
Description	Show/Hide objects for handling scenes
Data type	Enum (8bits); Yes/No

Name	Show Scene Bits
Description	Show/Hide bit objects for handing scenes
Data type	Enum (8bits); Yes/No

Name	Show Auto Details
Description	Show/Hide Auto bit objects (Heat/Cool)
Data type	Enum (8bits); Yes/No

Name	Enable Mode/Fan/Swing/Humi. Texts
Description	Show/Hide text type objects for Mode, Fan, Swing and Humidifying Mode
Data type	Enum (8bits); Yes/No

Name	Mode Auto Text
Description	Text description of Auto Mode, to be shown in "Mode Text"
	communication object.
Data type	String (14bytes)

Name	Mode Heat Text
Description	Text description of Heat Mode, to be shown in "Mode Text"
	communication object.
Data type	String (14bytes)

Name	Mode Dry Text
Description	Text description of Dry Mode, to be shown in "Mode Text"
	communication object.
Data type	String (14bytes)

Name	Mode Fan Text
Description	Text description of Fan Mode, to be shown in "Mode Text"
	communication object.
Data type	String (14bytes)

Name	Mode Cool Text
Description	Text description of Cool Mode, to be shown in "Mode Text"
	communication object.
Data type	String (14bytes)

Name	Fan Low Text
Description	Text description of Fan Speed Low, to be shown in "Fan Text"
	communication object.
Data type	String (14bytes)

Name	Fan Mid-1 Text
Description	Text description of Fan Speed Mid-1, to be shown in "Fan Text"
	communication object.
Data type	String (14bytes)

Name	Fan Mid-2 Text
Description	Text description of Fan Speed Mid-2, to be shown in "Fan Text"
	communication object.
Data type	String (14bytes)

Name	Fan Mid-3 Text
Description	Text description of Fan Speed Mid-3, to be shown in "Fan Text"
	communication object.
Data type	String (14bytes)

Name	Fan High Text
Description	Text description of Fan Speed High, to be shown in "Fan Text"
	communication object.
Data type	String (14bytes)

Name	Swing Off Text
Description	Text description of Swing mode "Off", to be shown in "Swing Text" communication object.
Data type	String (14bytes)

Name	Swing Vertical Text
Description	Text description of Swing mode "Vertical", to be shown in "Swing
	Text" communication object.
Data type	String (14bytes)

Name	Swing Horizontal Text
Description	Text description of Swing mode "Horizontal", to be shown in "Swing
	Text" communication object.
Data type	String (14bytes)

Name	Swing Both Text
Description	Text description of Swing mode "Both", to be shown in "Swing Text"
	communication object.
Data type	String (14bytes)

Name	Humidifying Off Text
Description	Text description of Humidifying Mode "Off", to be shown in
	"Humidifying Text" communication object.
Data type	String (14bytes)

Name	Humidifying Low Text
Description	Text description of Humidifying Mode "Low", to be shown in
	"Humidifying Text" communication object.
Data type	String (14bytes)

Name	Humidifying Standard Text
Description	Text description of Humidifying Mode "Standard", to be shown in
	"Humidifying Text" communication object.
Data type	String (14bytes)

Name	Humidifying High Text			
Description	Text description of Humidifying Mode "High", to be shown in			
	"Humidifying Text" communication object.			
Data type	String (14bytes)			

Name	Humidifying Continuous Text	
Description	Text description of Humidifying Mode "Continuous", to be shown in	
	"Humidifying Text" communication object.	
Data type	String (14bytes)	

6. Specifications

Dimensions:	59 X 36 X 21 mm
Weight:	42 g
KNX current consumption:	5 mA
Operating Temperature:	-25 60°C
Stock Temperature:	-40 85°C
Isolation voltage:	4000 V

7. AC Unit Types compatibility.

A list of Daikin indoor unit model references compatible with INKNXDAI001I000 and their available features can be found in:

https://www.intesis.com/docs/compatibilities/inxxxdai001xx00 compatibility

8. 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 21	A3 A4	1	Drain level system error Temperature of heat exchanger (1) error
22	A5	1	Temperature of heat exchanger (1) error Temperature of heat exchanger (2) error
23	A6	1	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 30	AH AJ	1	Dust collector error / No-maintenance filter error Capacity setting error (indoor)
31	AE AE		Shortage of water supply
32	AF	Indoor Unit	Malfunctions of a humidifier system (water leaking)
33	C0	indoor onit	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		Heat exchanger (1) (Gas pipe) thermistor system error
39	C6	-	Sensor system error of fan motor locked, overload
40	C7		Sensor system of swing flag motor error
41 42	C8 C9	1	Sensor system of over-current of AC input Suction air thermistor error
43	CA		Discharge air thermistor system error
44	CH	1	Contamination sensor error
45	CC	1	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 54	E4 E5	-	Low pressure switch (LPS) activated Overload of inverter compressor motor
55	E6	1	Over current of STD compressor motor
56	E7	1	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	EH		Pump motor over current
61 62	EC EJ	-	Water temperature abnormal (Site installed) Protection device activated
63	EE		Malfunctions in a drain water
64	EF		Ice thermal storage unit error
65	H0	1	Malfunctions in a sensor system
66	H1]	Air temperature thermistor error
67	H2		Sensor system of power supply error
68	H3	ļ	High Pressure switch is faulty
69 70	H4 H5	Outdoor Unit	Low pressure switch is faulty Compressor motor overload sensor is abnormal
70	H6	Outdoor Offic	Compressor motor over current sensor is abnormal
72	H7	1	Overload or over current sensor of fan motor is abnormal
73	H8]	Sensor system of over-current of AC input
74	H9		Outdoor air thermistor system error
75	HA		Discharge air thermistor system error
76 77	HH	1	Pump motor sensor system of over current is abnormal
77 79	HC HE	1	Water temperature sensor system error Sensor system of drain water is abnormal
80	HF	1	Ice thermal storage unit error (alarm)
81	F0	1	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	ļ	Temperature of heat exchanger (1) abnormal
91 92	FA FH	1	Discharge pressure abnormal
92	FC	1	Oil temperature is abnormally high Suction pressure abnormal
95	FE	1	Oil pressure abnormal
96	FF]	Oil level abnormal
97	J0]	Sensor system error of refrigerant temperature

98 J.1 90 J.2 100 J.3				
Dochstape pipe thermited system error Doch	98	J1	l	Pressure sensor error
Low pressure equivalent adultants of temporature sensor system error	99	J2		Current sensor error
Section page infernation system error				
1933 J.B. 1944 J.F. 1956 J.B. 1976 J.B. 1976 J.B. 1976 J.B. 1977 J.B. 1978 J.B. 1978 J.B. 1978 J.B. 1979 J.C. 1970 J				
Heat exchange (2) thermitors system error				
Discussion pipe or liquid pipe thermistor system error				
Double tube heat exchange outlet or gas pips thermistor system error				
Discharge pile pressure sensor error				
1988 JH				
1909 J.C. 111 JE 112 JF 113 LO 114 LO 115 LO 116				
1111 JE 112 JF 113 LO 115 LO 116 LS 117 Coll level sensor error 116 LS 117 Coll level sensor error 117 Lo 117 LS 118 LO 119 LS 119 LS 119 LS 120 L7 121 LS 122 LS 122 LS 123 LS 124 LS 125 LS 126 LS 127 LS 128 LS 129 PG 129 PG 129 PG 120 LS 1			1	
112 JF 113 L0 116 L3 116 L3 117 L4 118 L5 118 L5 119 L5 119 L5 120 L7 121 L8 121 L8 122 L9 123 LA 125 LC 126 L7 127 L9 128 L9 129 L9 120 L9 120 L9 120 L9 121 L9 122 L9 123 LA 124 L8 125 LC 125 LC 126 LC 127 Communication error between inverter and outdoor control unit 129 L9 130 PP 131 L9 132 L9 133 PP 133 PP 133 PP 134 L9 135 L9 136 PP 136 L9 137 L9 138 L9 139 L9 139 L9 130 L9				
Temperature rise in a switch box Temperature is too high			1	
Temperature rise in a switch box	113	L0		Inverter system error
118 L5 129 L6 120 L7 121 L8 120 L7 121 L8 122 L9 123 L9 124 L9 125 L9 125 L9 126 L9 127 L9 128 L9 129 P0 129 P0 129 P0 129 P0 129 P0 120 L7 120 L9 12			1	
199 L6 Compressor motor grounded or short circuit, inverter PCB fault	117	L4		Radiation fin (power transistor) temperature is too high
120 L7 L8 Compressor over urrent, compressor motor wire cut	118	L5		
121 LB				Compressor motor grounded or short circuit, inverter PCB fault
1922 1.9				Over current of all inputs
123 LA 126 LC 129 PO 130 P1 131 P3 132 P3 133 P4 133 P5 134 P5 135 P6 135 P7 136 P7 137 P7 138 P7 139 P8 139 P8 139 P8 139 P8 130 P9 13				
125 LC 129 PO 130 P1 130 P1 131 P1 132 P3 133 P4 133 P4 134 P5 135 P6 136 P6 137 P7 137 P7 137 P7 138 P7 139 P8 139 P8 139 P8 130 P8 130 P8 130 P8 130 P8 130 P8 131 P8 130 P8 131 P8 132 P8 133 P4 134 P5 135 P6 136 P7 137 Total input current sensor system error 136 P7 142 PJ 144 PJ 145 PJ 146 U1 146 U1 147 P2 148 U3 149 U4 149 U4 149 U4 150 U5 151 U6 152 U7 153 U8 155 U7 155 U7 155 U7 155 U7 155 U8 155 U7 155 U8 156 U8 157 U9 158 U9 159 U9 150 U9				
130				
130			1	
133			1	
Radiation fin temperature sensor error 134			1	
134 P5 135 P6 136 P7 137 136 P7 137 137 138 P7 139 142 PJ 145 U0 145 U0 146 U1 147 U2 148 U3 149 U4 149 U4 150 U5 151 U6 152 U7 153 U8 155 U7 155 U7 155 U8 156 U7 157 U6 158 UJ 159 U9 156 UH 157 U6 158 UJ 159 U9 156 UH 157 U6 158 UJ 158 UJ 159 UB 150 UB			1	
135 P6 136 P7 136 P7 137 138 P6 138 P7 139 139 139 141 142 PJ 145 146 147 148 148 148 149 149 140 140 150 150 150 150 150 150 150 150 150 15			1	
Total input current sensor error Total input current sensor error Total input current sensor error Lagaciny setting error (outdoor) Low pressure drops due to insufficient refrigerant or electronic expansion valve error, etc. Reverse puts base, Open phase Power voltage failure / Instantaneous power failure Power voltage failure / Instantaneous power failure Failure to carry out check operation, transmission error Communication error between indoor unit and dutdoor unit, communication error between outdoor unit and BS unit Communication error between indoor units and outdoor unit / Remote control board failure or setting error for remote control 151 U6 Total U7 System System			1	
142			1	
145 U0 Low pressure drops due to insufficient refrigerant or electronic expansion valve error, etc.			1	•
Reverse phase, Open phase	145	U0		
Failure to carry out check operation, transmission error	146	U1		Reverse phase, Open phase
Communication error between indoor unit and outdoor unit, communication error between outdoor unit and BS unit	147	U2		Power voltage failure / Instantaneous power failure
150 US 151 US 152 UT 153 US 154 UT 155 UT 155 US 1	148	U3		Failure to carry out check operation, transmission error
150 US 151 US 152 UT 153 US 154 UT 155 UT 155 US 1	4.40	114		Communication error between indoor unit and outdoor unit communication error between
Communication error between nemote control and indoor unit / Remote control board failure or setting error for remote control	149	04		· · · · · · · · · · · · · · · · · · ·
Setting error for remote control 152	450	115		
System Communication error between main and sub remote controllers (sub remote control error) / Combination error of other indoor unit / remote control in the same system / Communication error between main and sub remote controllers (sub remote control error) / Communication error between other indoor unit and outdoor unit in the same system / Communication error between another BS unit and indoor/outdoor unit Combination error of indoor/BS/outdoor unit (model, quantity, etc.), setting error of spare parts PCB when replaced Improper connection of transmission wiring between outdoor and outdoor unit outside control adaptor System Syst	150	U5		setting error for remote control
Isa	151	U6		Communication error between indoor units
System S	152	U7		
Combination error of other indoor unit / remote control in the same system (model) 155 UA 156 UH 157 UC 158 UJ 159 UE 160 UF 16	.02	0.	_	
Communication error between other indoor unit in the same system / Communication error between another BS unit and indoor/outdoor unit in the same system / Communication error of indoor/BS/outdoor unit (model, quantity, etc.), setting error of spare parts PCB when replaced Improper connection of transmission wiring between outdoor and outdoor unit outside control adaptor Improper connection of transmission wiring between outdoor and outdoor unit outside control adaptor Centralized address duplicated	153	U8	System	
194			1	
Combination error of indoor/BS/outdoor unit (model, quantity, etc.), setting error of spare parts PCB when replaced Improper connection of transmission wiring between outdoor and outdoor unit outside control adaptor Centralized address duplicated Attached equipment transmission error Communication error between indoor unit and centralized control device Failure to carrey out check operation Indoor-outdoor, outdoor-outdoor communication error, etc. All system error PC board error Ozone density abnormal PC board error Ozone density abnormal Ozone density abnormal Contamination sensor error Indoor air thermistor system error Indoor air thermistor system error Indoor air thermistor system error Outdoor air thermistor system error Door switch error Door switch error Door switch error Explace the high efficiency filter Replace the high efficiency filter Replace the deodorization catalyst Simplified remote controller error Fan motor of return air overload Inverter system error Chilled water valve error Chilled water valve error Hot water valve error Hot water valve error Heat exchanger of hot water error Heat exchanger of hot water error Heat exchanger of phum didy sensor error Outdoor air humidity sensor error Heat exchanger of hot water error Heat exchanger of phum waits error Heat exchanger of hot water error Outdoor air humidity sensor err	154	U9		
PCB when replaced Improper connection of transmission wiring between outdoor and outdoor unit outside control adaptor				
156	155	UA		
157	156	ШН		Improper connection of transmission wiring between outdoor and outdoor unit outside control
Attached equipment transmission error Communication error between indoor unit and centralized control device Failure to carrey out check operation Indoor-outdoor, outdoor-outdoor communication error, etc. 209 60 210 61 211 62 212 63 212 63 213 64 214 65 217 68 219 6A 220 6H 221 6C 222 6J 223 6E 223 6E 224 6F 225 6J 227 52 228 53 228 53 229 54 241 40 242 41 40 242 41 40 243 42 243 42 244 43 244 43 245 44 245 44 246 54 247 65 248 67 249 32 240 67 240 68 241 40 242 41 243 42 244 43 245 44 245 44 245 44 246 54 247 68 248 67 249 32 258 31 258 31 258 31 258 31 258 31 259 32				•
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Failure to carrey out check operation Indoor-outdoor, outdoor-outdoor communication error, etc. 209 60 210 61 211 62 212 63 213 64 214 65 217 68 219 6A 220 6H 221 6C 221 6C 221 6C 221 6C 222 6J 223 6E 223 6E 224 6F 224 6F 225 51 227 52 228 53 228 53 229 54 241 40 241 40 242 41 243 42 241 40 243 42 244 43 245 44 245 44 245 44 246 F 259 32 Failure to carrey out check operation Indoor-outdoor, outdoor-outdoor communication error, etc. All system error PC board error Ozone density abnormal Contamination sensor error Indoor air thermistor system error Outdoor air thermistor system error Outdoor air thermistor system error PLVU error (Ventiair dust-collecting unit) Dumper system error PC board error Outdoor air thermistor system error PU door air thermistor system error PV U error (Ventiair dust-collecting unit) Dumper system error PC board error PC bo				
etc.	159	UE	1	
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PC Doard error	209	60		
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Indoor air thermistor system error]	,
214 65 217 68 219 6A 219 6A 220 6H 220 6H 221 6C 222 6J 223 6E 224 6F 226 51 227 52 228 53 229 54 240 40 241 40 241 40 242 41 243 42 244 43 244 43 245 44 258 31 259 32 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) Inverter system error (return air side) Humidifying valve error Chilled water valve error Heat exchanger of chilled water error Heat exchanger of hot water error The humidity sensor of return air sensor Outdoor air humidity sensor error]	
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259 32 Outdoor air humidity sensor error				
Zou 33 Supply air temperature sensor error				
	260	33	j	Supply all temperature sensor error

261	34		Return air temperature sensor error
262	35		Outdoor air temperature sensor error
263	36		Remote controller temperature sensor error
267	3A		Water leakage sensor 1 error
268	3H		Water leakage sensor 2 error
269	3C		Dew condensation error
339	M2		Centralized remote controller PCB error
345	M8		Communication error between centralized remote-control devices
347	MA		Centralized remote-control devices inappropriate combination
349	MC		Centralized remote controller address setting error
555	N/A	INKNXDAI001I000	Error in the communication of INKNXDAI001I000 device with the AC unit

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



Daikin AC Domestic units to KNX Interface



MAIKIN KNX Intesis*

FEATURES

KNX certified.

Configured by ETS standard configuration tool.

Reduced dimensions allowing a quick installation inside the Air Conditioner unit.

Offered all the required DPT objects to be compatible with all KNX thermostats in the market.

Energy efficiency functions, such as "timeout", "open window" or "Occupancy". Costs related to

HVAC systems in a building are one of the highest and these functions allow to reduce them.

Smooth integration of KNX thermostats allowing the control of the AC unit by the own

temperature sensor of the thermostat.

Simultaneous control of the AC unit by the IR remote controller and by KNX.

 ${\it Total \ control \ and \ monitoring \ of \ the \ AC \ unit \ from \ KNX, \ including \ AC \ unit's \ internal \ variables,}$

running hours counter (for filter maintenance control) and error indication.

Up to 5 scenes can be saved and executed from KNX.

Use Case

Integration of Daikin Domestic Air Conditioner Units into a KNX installation.







Description

DIRECT CONNECTION TO INDOOR UNITS

The gateway is wired directly to an indoor unit. This allows not only the control of the main AC functions such as operating mode, fan speed, temperature setpoint...but the monitoring of errors, alarms and some internal variables.

EASY TO SET UP BY ETS (STANDARD KNX TOOL)

The connection between the two networks is quickly set up in the ETS configuration tool using the product database available to download. Thanks to the high number of supported KNX DPTs and the KNX certification, the gateway ensures interoperability with any KNX device in the market.

Technical Documentation

User Manual	General information about this product	Download
Installation Manual	Learn how to install the device in your project	Download
HVAC Compatibility tool	Find the appropriate solution for your HVAC integration	Open
HVAC Compatibility	Check your HVAC compatibility	Download
EC Declaration of Conformity	Check the product certification	Download

Programming Tool

Commercial Documentation

Marketing Datasheet	Discover all the integration solutions for Daikin	Download
Intesis Brochure	Know more about the Intesis current available products	Download

HVAC Compatibility

Ensure the compatibility of this gateway with your AC model by visiting https://compatibility.intesis.com/

Compatible AC models

FTXR - E*** | FTXZ - N*** | CTXU - G*** | FTXG - C/E/J/L*** | FTXJ - L/M/MS/MW*** | CTXG50E/J*** | ATX50E*** | ATX - JV*** | ATX - KV*** | ATX - J/J2/J3/K*** | ATXL - JV/J2V*** | ATXM - M*** | ATXP - KV*** | ATXS - C/D/E/G*** | ATXS - K*** | ATXS - K*** | ATXS - KV*** | ATKS - C/D/E*** | ATXG - C/E*** | CTXA15A*** | CTXA - AW/AS/AT | CTXM15M*** | CTXS - K*** | CTXS - LVJU | CTXS - L*** FT - FVM | FTDK - FV/GV*** | FTK - GV/JV*** | FTK - GV*** | FTK - NMVJU | FTK - N*** | FTKD - B*** | FTKD - BVMA | FTKD - BVMS | FTKD - BVMT | FTKD - D*** | FTKD - GV*** | FTKE - BVM | FTKE - BVMA | FTKN - NMVJU | FTKN - N*** | FTKS - B/C/D/E/F/G/H/J/K/L*** | FTN - E/F*** | FTS - B*** | FTYS - BVMS | FTX - GV/JV/J2/J3/K*** | FTX - GV*** | FTX - K*** | FTX - KV*** | FTX - LVMA | FTX -NMVJU | FTX - N*** | FTXA - A*** | FTXA - AW/AS/AT | FTXB - C*** | FTXC - B | FTXD - B*** | FTXD - B*** | FTXD - D*** | FTXD - $\texttt{JV***} \mid \texttt{FTXG} - \texttt{L***} \mid \texttt{FTXJ} - \texttt{PVMA***} \mid \texttt{FTXL} - \texttt{G***} \mid \texttt{FTXL} - \texttt{JV/J2V***} \mid \texttt{FTXLS} - \texttt{K/K3***} \mid \texttt{FTXM} - \texttt{K***} \mid \texttt{FTXM} - \texttt{K***} \mid \texttt{FTXM} - \texttt{M***} \mid \texttt{FTXM} - \texttt{M**} \mid \texttt{FTXM} - \texttt{M***} \mid \texttt{FTXM} - \texttt{M**} \mid \texttt{FTXM} - \texttt{M***} \mid \texttt{FTXM} - \texttt{M**} \mid \texttt{M**} \mid$ FTXM - RVMZ | FTXN - NMVJU | FTXP - KV*** | FTXS - B/C/D/E/F/H/J*** | FTXS - G*** | FTXS - K*** | FTXS - K*** | FTXS - LVJU | FTXS - L*** | FTYN - E/F*** | FVKS - B*** | FVXG - K*** | FVXM - F*** | FVXS - B/F*** | FVXS - NVJU | FVXS - N*** | FLX - A*** | FLXS -B/GV*** | FLK - A*** | FLKS - B*** | FVXS - B*** | CDKD - C*** | CDXS - C*** | CDXS - EAVMA | CDXS - E*** | FDKS - CVMA | FDKS -C/E*** | FDXS - C/E/L*** | FDXS - L*** | CTXG - QVJIJW | CTXG - QVJU(W/S) | CTXS - JVJU | CTXS - GVJU | CTXS - HVJU | CTXS - LVJU | CTXS - K | FTKN - JEVJU | FTXN - JEVJU | FTXN - KEVJU | FTXN - KVJU | FTXS - DVJU | FTXS - HVJU | FTXS - HVJU | FTXS - LVJU | FT LVJU | FVXS - NVJU | CDXS - LVJU | FDXS - DVJU | FDXS - LVJU | CDXS - BVM | FT - JV1A | FT - GAVEA | FTKD - BVM | FTY - GAV1A | FTXE - BVMA | FTXE - BVM | FLX50AVMA | FLX60AVMA | FTKD - F*** | FTKE - G*** | FTKS - D*** | FTKS - E*** | FTKS50B*** | FTKS - G*** | FTKS - F*** | FTKS71H*** | FTN - J*** | FTXS - E*** | FTXS - F*** | CDKD - EAVM | CDKD - CVM | FDKS - EAVMB | FDKS - CAVMB | FTXM - QVMA | FTXM - QVMA | FTKM - QVMA | FTKM - QVMA | FTKM - PVMA | FTKM - SV2S | FTKM18SV2S | FTXM - PVMA | FTKM - PVMK | FTKXM - PVMK | FTXZ - NV1B | FTXJ - PVMAW | FTXJ - PVMAS

ORDER CODE:

INKNXDA	10011000	Daikin AC Domestic units to KNX Interface - 1 unit
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INCLUDED COMPONENTS:

Intesis Gateway.

Installation Manual.

AC Connection cable.

Warranty: 36 months.

 $[\]ensuremath{^{*}}$ The asterisks stand for any character in the asterisk' position.

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