

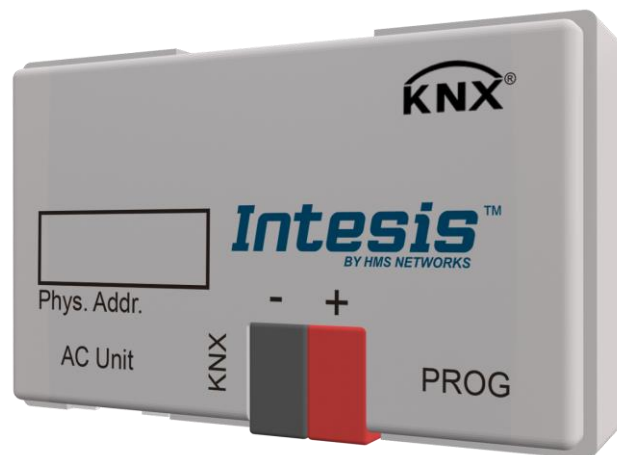


Gateway for integration of Mitsubishi Electric air conditioners  
into KNX TP-1 (EIB) control systems

Compatible with Domestic, Mr. Slim and City Multi lines commercialized by  
Mitsubishi Electric  
Application's Program Version: 1.0

**USER MANUAL**

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## Important User Information

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Gateway for integration of Mitsubishi Electric air conditioners into KNX TP-1 (EIB) control systems. Compatible with Domestic, Mr. Slim and City Multi lines commercialized by Mitsubishi Electric.

Application's Program Version: 1.0

<b>ORDER CODE</b>	<b>LEGACY ORDER CODE</b>
INKNXMIT001I000	ME-AC-KNX-1-V2

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## 1. Presentation



INKNXMIT001I000 allows a complete and natural integration of MITSUBISHI ELECTRIC air conditioners with KNX control systems.

Compatible with all Domestic and Mr. Slim models commercialized by MITSUBISHI ELECTRIC.

Main features:

- Reduced dimensions, quick installation.
- Multiple objects for control and status (bit, byte, characters...) with KNX standard datapoint types.
- Status objects for every control 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.
- AC unit can be controlled simultaneously by the IR remote control of the AC unit and by KNX.
- 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.
- 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.

## 2. Connection

The interface comes with a cable (1,9 meters 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:

**CN92** in Mr. Slim models.  
or  
**CN105** in rest of models.

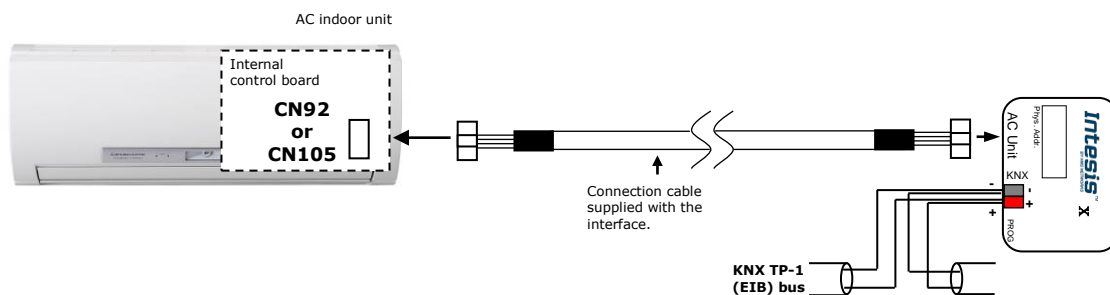
Using the cable that comes with the interface, insert one of its connectors, the one installed in the shortest uncovered part, into the socket of the INKNXMIT001I000 marked as **AC Unit**, and the other connector, the one in the largest uncovered part, into the socket **CN92** or **CN105** of the AC unit's control board. Fix the INKNXMIT001I000 inside or outside the AC indoor unit depending on your needs, remember that INKNXMIT001I000 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:



**Figure 2.2** Connection diagram

### 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:

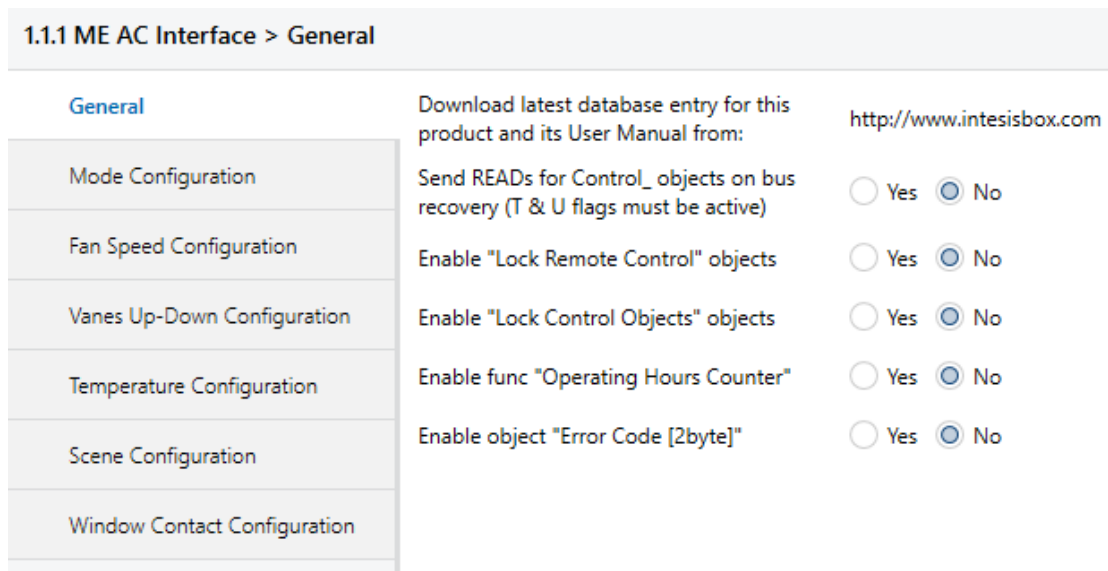
<https://intesis.com/products/ac-interfaces/mitsubishi-electric-gateways/mitsubishi-electric-domestic-mr.slim-and-city-multi-to-knx-interface>

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 INKNXMIT001I000. This is in "Parameters" of the device in ETS.

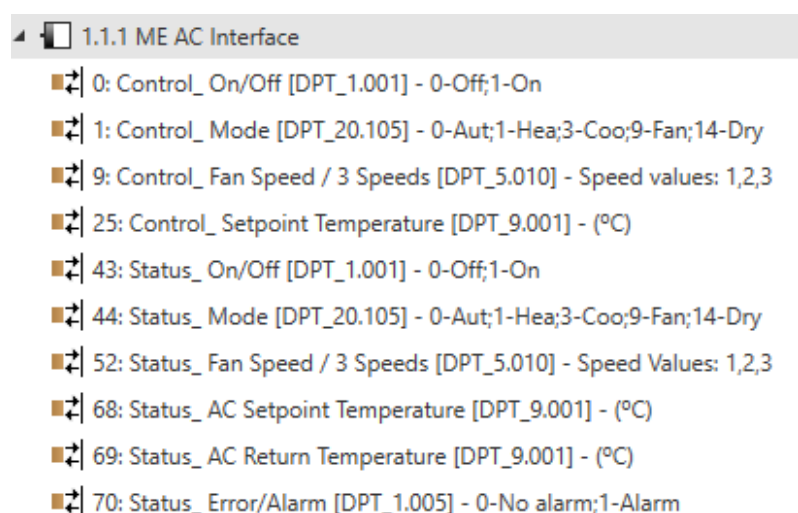
## 4. ETS Parameters

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



**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 Return Temp* and *Status\_ Error/Alarm* are shown.



**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 and the user manual for the product.

### 4.1.1 Send READs for Control\_ objects on bus recovery

When this parameter is enabled, INKNXMIT001I000 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 & U flags must be active)  Yes  No

> Delay before sending READs (sec)

**Figure 4.3** 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.

### 4.1.2 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.

- ↔ 30: Control\_ Lock Remote Control [DPT\_1.002] - 0-Unlocked;1-Locked
- ↔ 73: Status\_ Lock Remote Control [DPT\_1.002] - 0-Unlocked;1-Locked

- 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.*

### 4.1.3 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.

- ↔ 31: Control\_ Lock Control Objects [DPT\_1.002] - 0-Unlocked;1-Locked
- ↔ 74: Status\_ Lock Control Objects [DPT\_1.002] - 0-Unlocked;1-Locked

- 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.

### 4.1.4 Enable func “Operating Hours Counter”

This parameter shows/hides the *Status\_ Operation Hour Counter* communication object which counts the number of operating hours for the INKNXMIT001I000.

- ↔ 28: Control\_ Operation Hour Counter [DPT\_7.001] - Number of operating hours

- If set to “no” the object will not be shown.
- If set to “yes” the *Status\_ Operation Hour Counter* object will appear.
  - This object can be read and sends its status 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. To reset the counter should be 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.*

### 4.1.5 Enable object “Error Code [2byte]”

This parameter shows/hides the *Status\_ Error Code* communication object which shows the indoor unit errors, if occurred, in numeric format.

- ↔ 71: Status\_ Error Code [2byte] - AC Unit Error Code

- 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 also sends the indoor unit error, if occurred, in numeric format. If a **"0"** value is shown that means no error.

## 4.2 Mode Configuration dialog

1.1.1 ME AC Interface > Mode Configuration		
General	Indoor unit has FAN mode (see docum. for your indoor unit)	<input checked="" type="radio"/> Yes <input type="radio"/> No
Mode Configuration	Enable "Mode Cool/Heat" objects (for Control and Status)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Fan Speed Configuration	Enable use of +/- object for Mode	<input type="radio"/> Yes <input checked="" type="radio"/> No
Vanes Up-Down Configuration	Enable use of bit-type Mode objects (for Control)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Temperature Configuration	Enable use of bit-type Mode objects (for Status)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Scene Configuration	Enable use of Text object for Mode	<input type="radio"/> Yes <input checked="" type="radio"/> No
Window Contact Configuration	Enable use of Legacy_ object for Mode (compatible with old vers of XXACKNX1)	<input type="radio"/> Yes <input checked="" type="radio"/> No

**Figure 4.4** Default Mode Configuration dialog

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

■ ↕ 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 Indoor unit has FAN mode

This parameter has to be used to indicate if the indoor unit has the *fan mode* available.

- If set to **"no"**, the indoor unit doesn't have the *fan mode* available.
- If set to **"yes"**, the indoor unit has the *fan mode* available.

**⚠ Important:** Read the documentation of your indoor unit to check if it has FAN mode available.

### 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 - 1bit] - 0-Cool;1-Heat
- ↕ 45: Status\_Mode Cool/Heat [DPT\_1.100] - 0-Cool;1-Heat

- 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 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.

- ↕ 8: Control\_Mode +/- [DPT\_1.007] - 0-Decrease;1-Increase

- 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 4.5** 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

**⚠ Important:** Read the documentation of your indoor unit to check if it has FAN mode available.

#### 4.2.4 Enable use of bit-type Mode objects (for control)

This parameter shows/hides the bit-type *Control\_ Mode* objects.

- ↔ 3: Control\_ Mode Auto [DPT\_1.002] - 1-Set AUTO mode
- ↔ 4: Control\_ Mode Heat [DPT\_1.002] - 1-Set HEAT mode
- ↔ 5: Control\_ Mode Cool [DPT\_1.002] - 1-Set COOL mode
- ↔ 6: Control\_ Mode Fan [DPT\_1.002] - 1-Set FAN mode
- ↔ 7: Control\_ Mode Dry [DPT\_1.002] - 1-Set DRY mode

- 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.

#### 4.2.5 Enable use of bit-type Mode objects (for status)

This parameter shows/hides the bit-type *Status\_ Mode* objects.

- ↔ 46: Status\_ Mode Auto [DPT\_1.002] - 1-AUTO mode is active
- ↔ 47: Status\_ Mode Heat [DPT\_1.002] - 1-HEAT mode is active
- ↔ 48: Status\_ Mode Cool [DPT\_1.002] - 1-COOL mode is active
- ↔ 49: Status\_ Mode Fan [DPT\_1.002] - 1-FAN mode is active
- ↔ 50: Status\_ Mode Dry [DPT\_1.002] - 1-DRY mode is active

- 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.

#### 4.2.6 Enable use of Text object for Mode

This parameter shows/hides the *Status\_ Mode Text* communication object.

- ↔ 51: Status\_ Mode Text [DPT\_16.001] - ASCII String

- 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 AUTO	AUTO
> String when mode is HEAT	HEAT
> String when mode is COOL	COOL
> String when mode is FAN	FAN
> String when mode is DRY	DRY

Figure 4.6 Parameter detail

### 4.2.7 Enable use of Legacy\_ object for Mode

This parameter shows/hides the *Legacy\_ Mode* communication object

🔗 76: Legacy\_ Mode [1byte] - 0-Aut;1-Hea;2-Dry;3-Fan;4-Coo

- If set to **"no"** the communication object will not be shown.
- If set to **"yes"** the *Legacy\_ Mode* communication 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.

## 4.3 Fan Speed Configuration dialog

1.1.1 ME AC Interface > Fan Speed Configuration

General	Fan is accessible in Indoor unit (see docum. for your indoor unit)	<input checked="" type="radio"/> Yes <input type="radio"/> No
Mode Configuration	Available fanspeeds in Indoor Unit (see docum. for your indoor unit)	3
Fan Speed Configuration	Indoor unit has AUTO fan speed (see docum. for your indoor unit)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Vanes Up-Down Configuration	Enable use of +/- object for Fan Speed	<input type="radio"/> Yes <input checked="" type="radio"/> No
Temperature Configuration	Enable use of bit-type Fan Speed objects (for Control)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Scene Configuration	Enable use of bit-type Fan Speed objects (for Status)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Window Contact Configuration	Enable use of Text object for Fan Speed	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Enable use of Legacy_ object for Fan (compatible with old vers of XXACKNX1)	<input type="radio"/> Yes <input checked="" type="radio"/> No

Figure 4.7 Default Fan Speed Configuration dialog

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

### 4.3.1 Fan is accessible in Indoor unit

This parameter lets choose if the unit has Fan Speed control available or not.

Fan is accessible in Indoor unit (see docum. for your indoor unit)

**Figure 4.8** Parameter detail

- If set to **"no"** all the parameters and communication objects for the Fan Speed will not be shown.
- If set to **"yes"** all the parameters and communication objects (if enabled in the parameters dialog) for the Fan Speed will be shown.

⚠ **Important:** Read the documentation of your indoor unit to check if Fan Speed control is available.

#### 4.3.2 Available fanspeeds in Indoor Unit

This parameter lets choose how many fan speeds are available in the indoor unit.

**Figure 4.9** Parameter detail

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

#### 4.3.3 Indoor unit has AUTO fan speed

This parameter lets choose if the indoor unit has Auto Fan Speed available or not.

**Figure 4.10** Parameter detail

- If set to **"no"** all the parameters and communication objects for the Auto Fan Speed will not be shown.
- If set to **"yes"** a new parameter will appear. Find more information on section 2.4.6 *Enable "Fan Speed Manual/Auto" objects.*

**Figure 4.11** Parameter detail

⚠ **Important:** Read the documentation of your indoor unit to check if Auto Fan Speed is available.

#### 4.3.4 Enable use of +/- object for Fan Speed

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

■ ↕ 15: Control\_Fan Speed +/- [DPT\_1.007] - 0-Decrease;1-Increase

- 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.

Enable use of +/- object for Fan Speed  Yes  No

> DPT type for +/- Fan Speed object  0-Decrease / 1-Increase [DPT\_1.007]  
 0-Up / 1-Down [DPT\_1.008]

**Figure 4.12** Parameter detail

➤ 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.

#### 4.3.5 Enable use of bit-type Fan Speed objects (for Control)

This parameter shows/hides the bit-type *Control\_Fan Speed* objects.

■ ↕ 11: Control\_Fan Speed 1 [DPT\_1.002] - 1-Set Fan Speed 1  
 ■ ↕ 12: Control\_Fan Speed 2 [DPT\_1.002] - 1-Set Fan Speed 2  
 ■ ↕ 13: Control\_Fan Speed 3 [DPT\_1.002] - 1-Set Fan Speed 3

- If set to **"no"** the objects will not be shown.
- If set to **"yes"** the *Control\_Fan Speed* objects for Speed 1, Speed 2, Speed 3 (if available), and Speed 4 (if available) will appear. To activate a Fan Speed by using these objects a **"1"** value has to be sent.

#### 4.3.6 Enable use of bit-type Fan Speed objects (for Status)

This parameter shows/hides the bit-type *Status\_Fan Speed* objects.

■ ↕ 54: Status\_Fan Speed 1 [DPT\_1.002] - 1-Fan in speed 1  
 ■ ↕ 55: Status\_Fan Speed 2 [DPT\_1.002] - 1-Fan in speed 2  
 ■ ↕ 56: Status\_Fan Speed 3 [DPT\_1.002] - 1-Fan in speed 3

- If set to **"no"** the objects will not be shown.
- If set to **"yes"** the *Status\_Fan Speed* objects for Speed 1, Speed 2, Speed 3 (if available), and Speed 4 (if available) will appear. When a Fan Speed is enabled, a **"1"** value is returned through its bit-type object.



### 4.3.7 Enable use of Text object for Fan Speed

This parameter shows/hides the *Status\_ Fan Speed Text* communication object.

58: Status\_ Fan Speed Text [DPT\_16.001] - ASCII String

- 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 five 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 AUTO (if available)	AUTO
> String when fan speed is 1	SPEED 1
> String when fan speed is 2	SPEED 2
> String when fan speed is 3 (if available)	SPEED 3
> String when fan speed is 4 (if available)	SPEED 4

Figure 4.13 Parameter detail

### 4.3.8 Enable use of Legacy\_ object for Fan Speed

This parameter shows/hides the *Legacy\_ Fan Speed* communication object

77: Legacy\_ Fan Speed [1byte] - 0 - Auto; 1.4 - speed 1.4

- If set to **“no”** the communication object will not be shown.
- If set to **“yes”** the communication 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.

## 4.4 Vanes Up-Down Configuration dialog

1.1.1 ME AC Interface > Vanes Up-Down Configuration

General	Indoor unit has U-D Vanes (see docum. for your indoor unit)	<input checked="" type="radio"/> Yes <input type="radio"/> No
Mode Configuration	Available positions in Indoor Unit (see docum. for your indoor unit)	5
Fan Speed Configuration	Indoor unit has AUTO Vanes U-D (see docum. for your indoor unit)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Vanes Up-Down Configuration	Enable "Vanes U-D Swing" objects (for Control and Status)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Temperature Configuration	Enable use of +/- object for Vanes U-D	<input type="radio"/> Yes <input checked="" type="radio"/> No
Scene Configuration	Enable use of bit-type Vanes U-D objects (for Control)	<input type="radio"/> Yes <input checked="" type="radio"/> No
Window Contact Configuration	Enable use of bit-type Vanes U-D objects (for Status)	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Enable use of Text object for Vanes U-D	<input type="radio"/> Yes <input checked="" type="radio"/> No
	Enable use of Legacy_ object for Vanes (compatible with old vers of XXACKNX1)	<input type="radio"/> Yes <input checked="" type="radio"/> No

**Figure 4.14** Vanes Up-Down Configuration dialog

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

#### 4.4.1 Indoor unit has U-D Vanes

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

Indoor unit has U-D Vanes  
(see docum. for your indoor unit)

**Figure 4.15** Parameter detail

- 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.

#### 4.4.2 Available positions in Indoor Unit

This parameter lets choose how many vane positions are available in the indoor unit.

Available positions in Indoor Unit  
(see docum. for your indoor unit)

**Figure 4.16** Parameter detail

**⚠ Important:** Read the documentation of your indoor unit to check how many vane positions are available.

#### 4.4.3 Indoor unit has AUTO Vanes U-D

This parameter lets choose if the indoor unit has Auto Vanes U-D available or not.

Indoor unit has AUTO Vanes U-D (see docum. for your indoor unit)	Yes
---	-----

Figure 4.17 Parameter detail

- If set to **"no"** all the parameters and communication objects for the Auto Vanes U-D will not be shown.
- If set to **"yes"** a new parameter will appear. Find more information on section [Enable "Vanes U-D Man/Auto" objects \(for Control and Status\)](#).

Enable "Vanes U-D Man/Auto" objects (for Control and Status)	No
---	----

Figure 4.18 Parameter detail

**⚠ Important:** Read the documentation of your indoor unit to check if Auto Vane Position is available.

#### 4.4.4 Enable "Vanes U-D Swing" objects (for Control and Status)

This parameter shows/hides the *Control\_ Vanes U-D Swing* and *Status\_ Vanes U-D Swing* communication objects.

- ↕ 23: Control\_ Vanes U-D Swing [DPT\_1.002] - 0-Off;1-Swing
- ↕ 66: Status\_ Vanes U-D Swing [DPT\_1.002] - 0-Off;1-Swing

- If set to **"no"** the objects will not be shown.
- If set to **"yes"** the *Control\_ Vanes U-D Swing* and *Status\_ Vanes U-D Swing* objects will appear.
  - When a **"1"** value is sent to the *Control\_* communication object, Vanes Up-Down will be in Auto mode, and the *Status\_* object will return this value.
  - When a **"0"** value is sent to the *Control\_* communication object, Vanes Up-Down will be in Manual mode and the first position will be enabled. The *Status\_* object will return this value.

#### 4.4.5 Enable use of +/- object for Vanes U-D

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

- ↕ 26: Control\_ Vanes U-D +/- [DPT\_1.007 - 1bit] - 0-Decrease;1-Increase

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

- If set to **“yes”** the *Control\_ Vanes U-D +/-* object and a new parameter will appear.

Enable use of +/- object for Vanes U-D  Yes  No

> DPT type for +/- Vanes U-D object  0-Decrease / 1-Increase [DPT\_1.007]  
 0-Up / 1-Down [DPT\_1.008]

**Figure 4.19** 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\_ Vanes U-D +/-* object.

#### 4.4.6 Enable use of bit-type Vane U-D objects (for Control)

This parameter shows/hides the bit-type *Control\_ Vanes U-D* objects.

- ↕ 18: Control\_ Vanes U-D Pos 1 [DPT\_1.002] - 1-Set Position 1
- ↕ 19: Control\_ Vanes U-D Pos 2 [DPT\_1.002] - 1-Set Position 2
- ↕ 20: Control\_ Vanes U-D Pos 3 [DPT\_1.002] - 1-Set Position 3
- ↕ 21: Control\_ Vanes U-D Pos 4 [DPT\_1.002] - 1-Set Position 4
- ↕ 22: Control\_ Vanes U-D Pos 5 [DPT\_1.002] - 1-Set Position 5

- If set to **“no”** the objects will not be shown.
- If set to **“yes”** the *Control\_ Vanes U-D* objects for each Position will appear. To activate a Vanes Position by using these objects, a **“1”** value has to be sent.

#### 4.4.7 Enable use of bit-type Vane U-D objects (for Status)

This parameter shows/hides the bit-type *Status\_ Vanes U-D* objects.

- ↕ 61: Status\_ Vanes U-D Pos 1 [DPT\_1.002] - 1-Vanes in Position 1
- ↕ 62: Status\_ Vanes U-D Pos 2 [DPT\_1.002] - 1-Vanes in Position 2
- ↕ 63: Status\_ Vanes U-D Pos 3 [DPT\_1.002] - 1-Vanes in Position 3
- ↕ 64: Status\_ Vanes U-D Pos 4 [DPT\_1.002] - 1-Vanes in Position 4
- ↕ 65: Status\_ Vanes U-D Pos 5 [DPT\_1.002] - 1-Vanes in Position 5

- If set to **“no”** the objects will not be shown.
- If set to **“yes”** the *Status\_ Vanes U-D* objects for each Position will appear. When a Vanes Position is enabled, a **“1”** value is returned through its bit-type object.

#### 4.4.8 Enable “Vanes U-D Man/Auto” objects (for Control and Status)

This parameter shows/hides the *Control\_ Vanes U-D Man/Auto* and *Status\_ Vanes U-D Man/Auto* communication objects.

- ↕ 17: Control\_ Vanes U-D Man/Auto [DPT\_1.002] - 0-Manual;1-Auto
- ↕ 60: Status\_ Vanes U-D Man/Auto [DPT\_1.002] - 0-Manual;1-Auto

- If set to **"no"** the objects will not be shown.
- If set to **"yes"** the *Control\_ Vanes U-D Man/Auto* and *Status\_ Vanes U-D Man/Auto* objects will appear.
  - When a **"1"** value is sent to the *Control\_* communication object, Vanes Up-Down will be in Auto mode, and the *Status\_* object will return this value.
  - When a **"0"** value is sent to the *Control\_* communication object, Vanes Up-Down will be in Manual mode and the first position will be enabled. The *Status\_* object will return this value.
- ⚠ **Important:** When in Auto Mode the indoor unit will choose the most appropriate vane up-down position, but this will be shown neither in KNX nor in the remote controller.

#### 4.4.9 Enable use of Text object for Vane U-D

This parameter shows/hides the *Status\_ Vanes U-D Text* communication object.

- ↕ 67: Status\_ Vanes U-D Text [DPT\_16.001] - ASCII String

- If set to **"no"** the object will not be shown.
- If set to **"yes"** the *Status\_ Vanes U-D Text* object will appear. Also, in the parameters will be shown seven text fields, five for the Vane Position and one for the Auto function and another one for the Swing function, that will let modify the text string displayed by the *Status\_ Vanes U-D Text* when changing a vane position.

> String when vanes U-D in AUTO (if available)	U-D AUTO
> String when vanes U-D in POS 1	U-D POS 1
> String when vanes U-D in POS 2	U-D POS 2
> String when vanes U-D in POS 3	U-D POS 3
> String when vanes U-D in POS 4	U-D POS 4
> String when vanes U-D in POS 5 (if available)	U-D POS 5
> String when vanes U-D in SWING	U-D SWING

Figure 4.20 Parameter detail

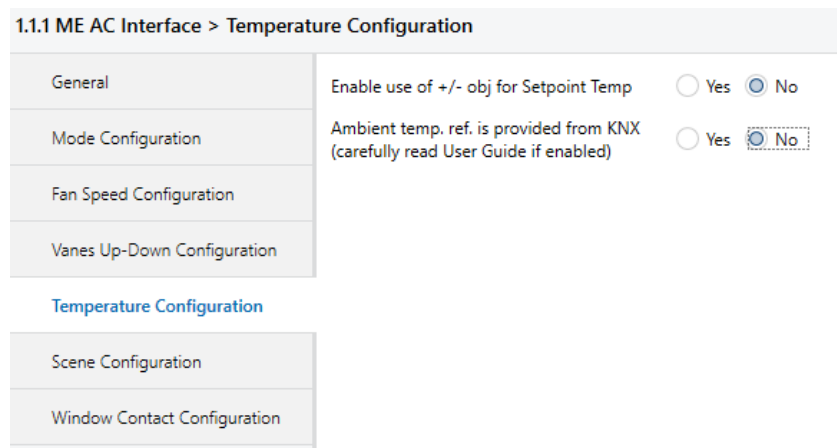
#### 4.4.10 Enable use of Legacy\_ object for Vanes

This parameter shows/hides the *Legacy\_ Vanes* communication object

### 78: Legacy\_Vanes [1byte] - 0-Auto; 1..5-pos1..5; 6-Swing

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

## 4.5 Temperature Configuration dialog



**Figure 4.21** Default Temperature Configuration dialog

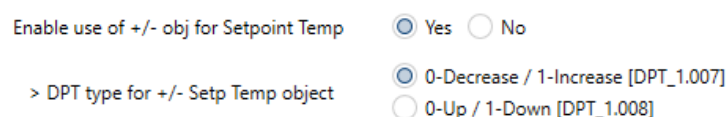
All the parameters in this section are related with the Temperature properties and communication objects.

### 4.5.1 Enable use of +/- object for Setpoint Temp

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

### 26: Control\_Setpoint Temperature +/- [DPT\_1.007] - 0-Decrease;1-Increase

- 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.



**Figure 4.22** Parameter detail

➤ 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) **19°C**  20°C  ...  27°C  **28°C** (Upper limit)

- Up / Increase
- Down / Decrease

#### 4.5.2 Ambient temp. ref. is provided from KNX

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

■  27: *Control\_ Ambient Temperature [DPT\_9.001]* - (°C)

- If set to **"no"** the object will not be shown.
- If set to **"yes"** the *Control\_ Ambient Temperature* object will appear. Meant to be enabled when you want the temperature provided by a KNX sensor to be the reference ambient temperature for the air conditioner. Then, the following formula applies for calculation of real *Control\_ Setpoint Temperature* sent to the AC unit:

"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

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 Mitsubishi system is: **24°C** ("AC Ret. Temp")

In this example, the final setpoint temperature that ME-AC-KNX-1 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 Mitsubishi Electric 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).

#### 4.6 Scene Configuration dialog

1.1.1 ME AC Interface > Scene Configuration		
General	Enable use of scenes	<input checked="" type="radio"/> Yes <input type="radio"/> No
Mode Configuration	Enable use of bit objects for scene execution	<input type="radio"/> Yes <input checked="" type="radio"/> No
Fan Speed Configuration	Enable use of bit objects for storing scenes	<input type="radio"/> Yes <input checked="" type="radio"/> No
Vanes Up-Down Configuration		
Temperature Configuration		
<b>Scene Configuration</b>		
Window Contact Configuration		

**Figure 4.23** 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.

#### 4.6.1 Enable use of scenes

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

- ↕ 32: Control\_Store/Execute Scene [DPT\_18.001] - 0..4-Exec1-5;128..132-Save1-5
- ↕ 75: Status\_Current Scene [DPT\_17.001] - 0..4-Scene X+1;63-No Scene

- 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, corresponding each one to a different scene (i.e. "0" = Scene 1;... "4" = Scene 5).

#### 4.6.2 Enable use of bit objects for scene execution

This parameter shows/hides the *Control\_ Execute Scene* bit-type communication objects.

- ↕ 38: Control\_ Execute Scene 1 [DPT\_1.002] - 1-Execute Scene 1
- ↕ 39: Control\_ Execute Scene 2 [DPT\_1.002] - 1-Execute Scene 2
- ↕ 40: Control\_ Execute Scene 3 [DPT\_1.002] - 1-Execute Scene 3
- ↕ 41: Control\_ Execute Scene 4 [DPT\_1.002] - 1-Execute Scene 4
- ↕ 42: Control\_ Execute Scene 5 [DPT\_1.002] - 1-Execute Scene 5



- 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).

#### 4.6.3 Enable use of bit objects for storing scenes

This parameter shows/hides the *Control\_ Store Scene* bit-type communication objects.

```
■↕ 33: Control_ Store Scene 1 [DPT_1.002] - 1-Store Scene 1
■↕ 34: Control_ Store Scene 2 [DPT_1.002] - 1-Store Scene 2
■↕ 35: Control_ Store Scene 3 [DPT_1.002] - 1-Store Scene 3
■↕ 36: Control_ Store Scene 4 [DPT_1.002] - 1-Store Scene 4
■↕ 37: Control_ Store Scene 5 [DPT_1.002] - 1-Store Scene 5
```

- 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 Enable use of Window Contact function

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

```
■↕ 29: Control_ Window Contact Status [DPT_1.009] - 0-Open;1-Closed
```

- 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.

1.1.1 ME AC Interface > Window Contact Configuration

General	Enable use of Open Window function	<input checked="" type="radio"/> Yes <input type="radio"/> No
Mode Configuration	> AC switch-off timeout (min)	10
Fan Speed Configuration	> Reload last On/Off val once window is Closed	<input checked="" type="radio"/> Yes <input type="radio"/> No
Vanes Up-Down Configuration		
Temperature Configuration		
Scene Configuration		

[Window Contact Configurati...](#)

Figure 4.24 Parameter detail

➤ AC switch-off timeout (min)

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

➤ Reload last On/Off val once window is closed?

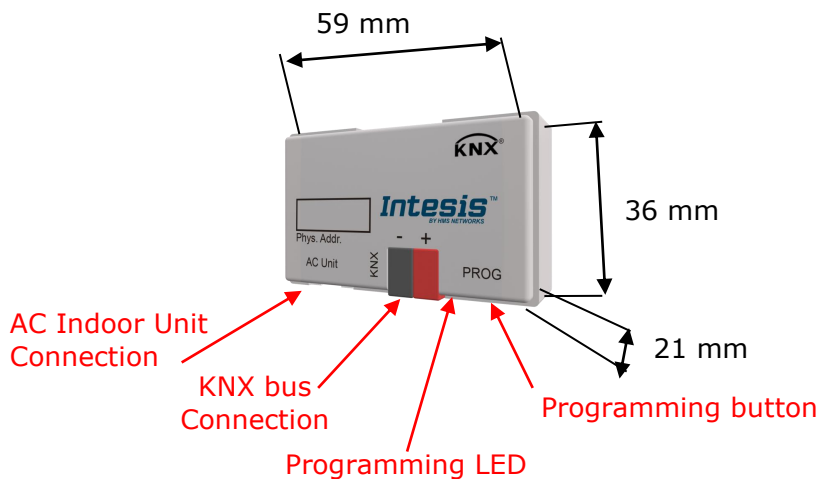
If set to **"no"**, once the switch-off timeout is stopped, any value will be reloaded.

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 **"0"** value is sent to the *Control\_ Switch Off Timeout* after the timeout period, no action will be performed.

### 5. Specifications

Enclosure	ABS (UL 94 HB) de 2,5 mm thick Net dimensions (dxwxh): 59 x 36 x 21 mm / 4" x 2.8" x 1.2" Color: Light White	Operation Temperature	-25°C to 60°C
Weight	42 g.	Stock Temperature	-40°C to 85°C
Power supply	29V DC, 5mA Supplied through KNX bus.	Operational Humidity	<90% RH, non-condensing
Terminal Wiring (for low-voltage signals)	For terminal: solid wires or stranded wires (twisted or with ferrule) 1 core: 0.5mm <sup>2</sup> ... 2.5mm <sup>2</sup> 2 cores: 0.5mm <sup>2</sup> ... 1.5mm <sup>2</sup> 3 cores: not permitted	Stock Humidity	<90% RH, non-condensing
KNX port	1 x KNX TP1 (EIB) port opto-isolated. Plug-in terminal block (2 poles). TNV-1	Isolation voltage	4000 V
AC unit port	1 x Specific connector Specific cable included	Protection	IP20 (IEC60529)
Configuration	Configuration with ETS	Buttons	1 x KNX programming
LED indicators	1 x KNX programming		
RoHS conformity	Compliant with RoHS directive (2002/95/CE).		
Certifications	CE conformity to EMC directive (2004/108/EC) and Low-voltage directive (2006/95/EC) EN 61000-6-3; 61000-6-1; EN 60950-1; EN 50491-3;		



## 6. AC Unit Types compatibility.

A list of Mitsubishi Electric indoor unit models compatible with INKNXMIT001I000 and their available features can be found in:

[https://www.intesis.com/docs/compatibilities/inxxxmit001ix00\\_compatibility](https://www.intesis.com/docs/compatibilities/inxxxmit001ix00_compatibility)

## 7. Error Codes

Error Code	Description
-1	Communication error between the INKNXMIT001I000 gateway and the AC unit
0	No active error
0001	Communication error with the AC unit
1102	Discharge Temperature high
1108	Internal thermostat detector working (49C)
1110	Outdoor unit fail
1300	Pressure low
1302	Pressure high (High pressure probe working 63H)
1503	Protection against freeze or battery high temperature
1504	Protection against freeze or battery high temperature
1504	Overheating protection
1509	High pressure error (ball valve closed)
1520	Super heating anomaly due to low temp. of discharge. (TH4)
2500	Erroneous operation of drain pump
2502	Erroneous operation of drain pump
2503	Drain sensor anomaly (DS)
4030	Serial transmission error
4100	Compressor pause due to excess of current (initial block)
4101	Compressor pause due to excess of current (overload)
4102	Phase detection opened
4103	Anti-phase detection
4108	Phase opened in phase L2 or connector 51CM opened
4118	Error in the anti-phase detector (electronic board)
4124	Connector 49L opened
4210	Cut due to over-current of compressor
4220	Voltage anomaly
4230	Radiator panel temperature anomaly (TH8)
5101	Ambient temperature probe anomaly (TH1), indoor unit
5102	Liquid probe anomaly (TH2)
5103	Cond/Evap probe anomaly (TH5)
5104	Error detection in discharge temperature
5105	Outdoor probe error TH3
5106	Outdoor probe error TH7
5107	Outdoor probe error TH6
5110	Outdoor probe error TH8
5202	Connector 63L opened
5300	Current probe error
6600	MNET duplicated address definition
6602	MNET Line transmission hardware error
6603	MNET BUS busy
6606	MNET Line transmission error
6607	MNET transmission error
6607	MNET without ack
6608	MNET transmission error
6608	MNET without response
6831	IR remote control transmission error (reception error)
6832	IR remote control transmission error (transmission error)
6840	Transmission error with the indoor/outdoor unit (reception error)
6841	Transmission error with the indoor/outdoor unit (transmission error)
6844	Error in inter-connection cable in the indoor/outdoor unit, indoor unit number deactivated (5 min or more)
6845	Error in inter-connection cable in the indoor/outdoor unit (cabling error, disconnection)
6846	Initial timer deactivated

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

### Appendix A – Communication Objects Table

TOPIC	OBJECT NUMBER	NAME	LENGTH	DATAPOINT TYPE		FLAGS				FUNCTION
				DPT_NAME	DPT_ID	R	W	T	U	
<b>On/Off</b>	<b>0</b>	Control_ On/Off	1 bit	DPT_Switch	1.001		W	T		0 - Off; 1-On
<b>Mode</b>	<b>1</b>	Control_ Mode	1 byte	DPT_HVACContrMode	20.105		W	T		0 - Auto; 1 - Heat; 3 - Cool; 9 - Fan; 14 - Dry
	<b>2</b>	Control_ Mode Cool/Heat	1 bit	DPT_Heat/Cool	1.100		W	T		0 - Cool; 1 - Heat;
	<b>3</b>	Control_ Mode Auto	1 bit	DPT_Bool	1.002		W	T		1 - Auto
	<b>4</b>	Control_ Mode Heat	1 bit	DPT_Bool	1.002		W	T		1 - Heat
	<b>5</b>	Control_ Mode Cool	1 bit	DPT_Bool	1.002		W	T		1 - Cool
	<b>6</b>	Control_ Mode Fan	1 bit	DPT_Bool	1.002		W	T		1 - Fan
	<b>7</b>	Control_ Mode Dry	1 bit	DPT_Bool	1.002		W	T		1 - Dry
	<b>8</b>	Control_ Mode -/+ / Control_ Mode +/-	1 bit	DPT_Step / DPT_UpDown	1.007 / 1.008		W			0 - Decrease; 1 - Increase / 0 - Up; 1 - Down
<b>Fan Speed</b>	<b>9</b>	Control_ Fan Speed / 2 (3)(4) Speeds	1 byte	DPT_Enumerated	5.010		W	T		1 - Speed 1; 2 - Speed 2; (3 Speed 3; 4 - Speed 4)
	<b>10</b>	Control_ Fan Speed Manual/Auto	1 bit	DPT_Bool	1.002		W	T		0 - Manual; 1 - Auto
	<b>11</b>	Control_ Fan Speed 1	1 bit	DPT_Bool	1.002		W	T		1 - Set Fan Speed 1
	<b>12</b>	Control_ Fan Speed 2	1 bit	DPT_Bool	1.002		W	T		1 - Set Fan Speed 2
	<b>13</b>	Control_ Fan Speed 3	1 bit	DPT_Bool	1.002		W	T		1 - Set Fan Speed 3
	<b>14</b>	Control_ Fan Speed 4	1 bit	DPT_Bool	1.002		W	T		1 - Set Fan Speed 4
	<b>15</b>	Control_ Fan Speed -/+ / Control_ Fan Speed +/-	1 bit	DPT_Step / DPT_UpDown	1.007 / 1.008		W			0 - Decrease; 1 - Increase / 0 - Up; 1 - Down
<b>anes Up-Down</b>	<b>16</b>	Control_ Vanes U-D / 5 pos	1 byte	DPT_Enumerated	5.010		W	T		1 - Pos1; 2 - Pos2; 3 - Pos3; 4 - Pos4; 5 - Pos5
	<b>17</b>	Control_ Vanes U-D Man/Auto	1 bit	DPT_Bool	1.002		W	T		0 - Manual; 1 - Auto
	<b>18</b>	Control_ Vanes U-D Pos1	1 bit	DPT_Bool	1.002		W	T		1 - Set Position 1
	<b>19</b>	Control_ Vanes U-D Pos2	1 bit	DPT_Bool	1.002		W	T		1 - Set Position 2
	<b>20</b>	Control_ Vanes U-D Pos3	1 bit	DPT_Bool	1.002		W	T		1 - Set Position 3
	<b>21</b>	Control_ Vanes U-D Pos4	1 bit	DPT_Bool	1.002		W	T		1 - Set Position 4
	<b>22</b>	Control_ Vanes U-D Pos5	1 bit	DPT_Bool	1.002		W	T		1 - Set Position 5
	<b>23</b>	Control_ Vanes U-D Swing	1 bit	DPT_Bool	1.002		W	T		0 - Off; 1 - Swing

	<b>24</b>	Control_ Vanes U-D -/+ / Control_ Vanes U-D +/-	1 bit	DPT_Step / DPT_UpDown	1.007 / 1.008		W	T	0 - Decrease; 1 - Increase / 0 - Up; 1 - Down
<b>Temperature</b>	<b>25</b>	Control_ Setpoint Temperature	2 byte	DPT_Value_Temp	9.001		W	T	(°C)
	<b>26</b>	Control_ Setpoint Temp -/+ / Control_ Setpoint Temp +/-	1 bit	DPT_Step / DPT_UpDown	1.007 / 1.008		W		0 - Decrease; 1 - Increase / 0 - Up; 1 - Down
	<b>27</b>	Control_ Ambient Temperature	2 byte	DPT_Value_Temp	9.001		W	T	(°C)
<b>Counter</b>	<b>28</b>	Control_ Operation Hour Counter	2 byte	DPT_Value_2_Ucount	7.001		W	T	Number of operating hours
<b>Window</b>	<b>29</b>	Control_ Window Contact Status	1 bit	DPT_OpenClose	1.009		W	T	0 - Open; 1 - Closed
<b>Locking</b>	<b>30</b>	Control_ Lock Remote Control	1 bit	DPT_Bool	1.002		W	T	0 - Unlocked; 1 - Locked
	<b>31</b>	Control_ Lock Control Objects	1 bit	DPT_Bool	1.002		W	T	0 - Unlocked; 1 - Locked
<b>Scenes</b>	<b>32</b>	Control_ Store/Exec Scene	1 byte	DPT_SceneControl	18.001		W	T	0..4-Exec1-5;128..132-Save1-5
	<b>33</b>	Control_ Store Scene1	1 bit	DPT_Bool	1.002		W		1 - Store Scene
	<b>34</b>	Control_ Store Scene2	1 bit	DPT_Bool	1.002		W		1 - Store Scene
	<b>35</b>	Control_ Store Scene3	1 bit	DPT_Bool	1.002		W		1 - Store Scene
	<b>36</b>	Control_ Store Scene4	1 bit	DPT_Bool	1.002		W		1 - Store Scene
	<b>37</b>	Control_ Store Scene5	1 bit	DPT_Bool	1.002		W		1 - Store Scene
	<b>38</b>	Control_ Execute Scene1	1 bit	DPT_Bool	1.002		W	T	1 - Execute Scene
	<b>39</b>	Control_ Execute Scene2	1 bit	DPT_Bool	1.002		W	T	1 - Execute Scene
	<b>40</b>	Control_ Execute Scene3	1 bit	DPT_Bool	1.002		W	T	1 - Execute Scene
	<b>41</b>	Control_ Execute Scene4	1 bit	DPT_Bool	1.002		W	T	1 - Execute Scene
	<b>42</b>	Control_ Execute Scene5	1 bit	DPT_Bool	1.002		W	T	1 - Execute Scene
<b>ON/OFF</b>	<b>43</b>	Status_ On/Off	1 bit	DPT_Switch	1.001	R		T	0 - Off; 1-On
<b>Mode</b>	<b>44</b>	Status_ Mode	1 byte	DPT_HVACContrMode	20.105	R		T	0 - Auto; 1 - Heat; 3 - Cool; 9 - Fan; 14 - Dry
	<b>45</b>	Status_ Mode Cool/Heat	1 bit	DPT_Heat/Cool	1.100	R		T	0 - Cool; 1 - Heat
	<b>46</b>	Status_ Mode Auto	1 bit	DPT_Bool	1.002	R		T	1 - Auto
	<b>47</b>	Status_ Mode Heat	1 bit	DPT_Bool	1.002	R		T	1 - Heat
	<b>48</b>	Status_ Mode Cool	1 bit	DPT_Bool	1.002	R		T	1 - Cool
	<b>49</b>	Status_ Mode Fan	1 bit	DPT_Bool	1.002	R		T	1 - Fan
	<b>50</b>	Status_ Mode Dry	1 bit	DPT_Bool	1.002	R		T	1 - Dry
	<b>51</b>	Status_ Mode Text	14 byte	DPT_String_8859_1	16.001	R		T	ASCII String
<b>Fan</b>	<b>52</b>	Status_ Fan Speed / 2 (3)(4) Speeds	1 byte	DPT_Enumerated	5.010		W	T	1 - Speed 1; 2 - Speed 2; (3 Speed 3; 4 - Speed 4)