# GREE SPLIT AC GATEWAY

# USER MANUAL

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**Product Code** : CR-CG-GRE-KNX-02

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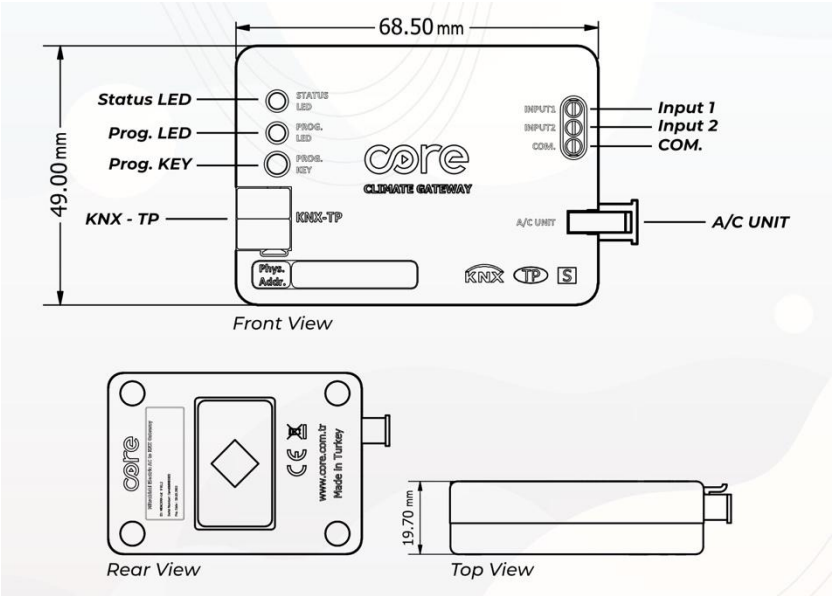
# 1. PRESENTATION

Core KNX-GREE Gateway allows monitoring and control of Gree Split air conditioners via KNX Systems.

## 1.1. DIMENSIONS




## 1.2. MAIN FEATURES

- Reduced dimensions of 68.5mm x 49mm x 19.7mm, it can easily fits inside the indoor units. With the cable that comes with the device, quick and faultless installation can be done.
- Can be configured with the standard ETS application.
- With different KNX DPT (Bit, Byte) objects, it can work in harmony with most of the KNX thermostats in the market.
- Indoor unit's setpoint temperature, operation mode, fan speed, vane controls, ... functions can be controlled bidirectionally, and their status can be monitored.
- More efficient air conditioning can be achieved by sending the ambient temperature provided by product groups such as thermostats, switches, etc. containing ambient temperature sensors to the indoor unit.
- Error codes on the indoor unit can be reported.
- With the help of fixing apparatus and internal magnets that come with the device, precise installation can be done.
- To prevent wrong or faulty connections, industrial grade connector type is selected with pin-matching structure.

# 2. DEVICE CONNECTION AND CONFIGURATION

## 2.1. CONNECTION

The device comes with a cable for direct connection to the related terminals of the Air Conditioner Indoor Unit.

⚠ The device should not be connected to the air conditioner with any cable rather than the one that comes with it.

**Connection to the Indoor Unit:**

- Disconnect the main power from the AC unit.
- Open the internal controller board.
- Find the **COM-MANUAL** terminals
- Connect the white connector on the installation cable supplied with the device to the COM-MANUAL connector on the air conditioner, and the black connector to the A/C Unit connector of the device.

⚠ Cutting the cable, shortening it or making any other physical modifications may cause the device not to work properly.

**Connection to the KNX Bus:**

- Disconnect power of the KNX bus.
- Connect to the KNX TP-1 (EIB) Bus Line using the device's standard KNX connector (red/black), respect polarity.
- Reconnect power of the KNX bus.

**Connection Diagram**

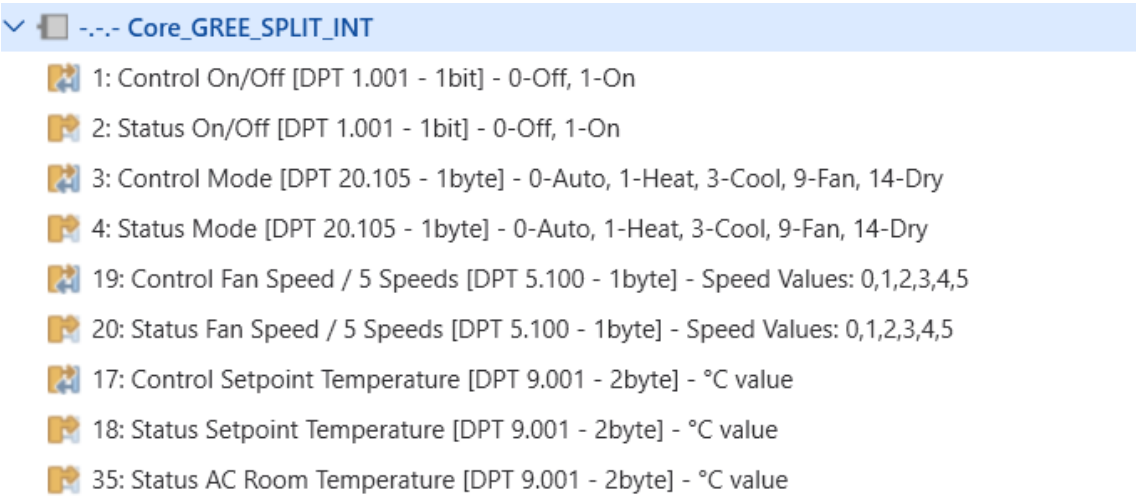
## 2.2. CONFIGURATION

Core KNX-GREE Split Gateway is a fully compatible KNX device that must be configured and set up using the standard KNX configuration tool ETS. The ETS database for this device can be downloaded from ETS online catalog.

# 3. ETS PARAMETERS

## 3.1. INTRODUCTION

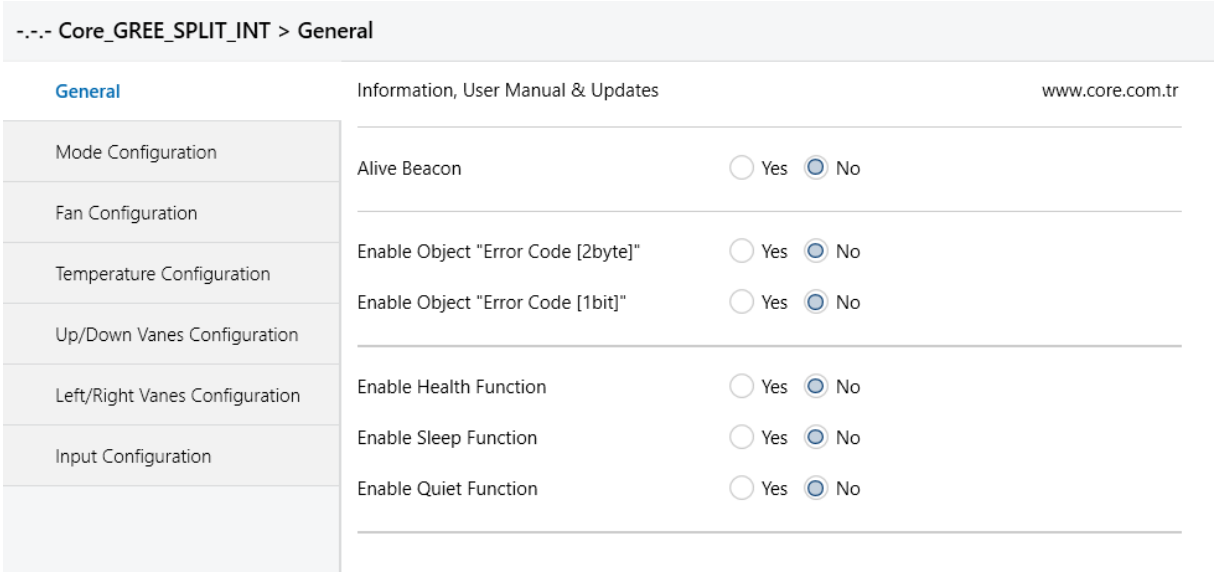
Following group objects are accessible by default when the device project is loaded into the ETS application, or the device is included in an existing project.




With the default group objects and specified data types, basic functions such as on/off, control modes, fan speed, target temperature and ambient temperature of the indoor unit can be controlled, and their instantaneous values can be read.

## 3.2. GENERAL

This tab contains the following parameter settings. ETS product file, installation and user manuals are accessible via the specified web address.

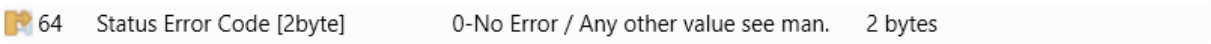


### 3.2.1 ALIVE BEACON

Parameter used to observe that the device and the application are running. It is disabled by default. When activated,

### 3.2.2 ENABLE OBJECT "ERROR CODE [2BYTE]"

Error conditions that may occur on the indoor unit can be read through this group object. It is disabled by default. When enabled,




Group object becomes available for use. A value of '0' means that there is no error. Possible error codes are given in Appendix-2.

### 3.2.3 ENABLE OBJECT "ERROR CODE [1BIT}"

This group object indicates whether there is an error or no error on the indoor unit. It is disabled by default. When enabled,

Group object becomes available for use. A value of '0' means that there is no error. A value of "1" means there is error.

Blue segment of the Programming LED will flash with the defined millisecond time interval.

### 3.2.5 ENABLE HEALTH FUNCTION

With this parameter, 1-Bit group objects can be activated. It is disabled by default. When activated, the specified group objects become available.

Health Function can be activated with the value '1' written to the 1-Bit Control Health Function group object. When the indoor unit activates Health function, a feedback with the value '1' will be sent via the related Status Health Function object.

For detailed information about Health function, please review your product manual.

### 3.2.6 ENABLE SLEEP FUNCTION

With this parameter, 1-Bit group objects can be activated. It is disabled by default. When activated, the specified group objects become available.

| | | | | |
|---|---|---|---|---|
| 72 | Control Sleep Function [DPT 1.002 - 1bit] | 0-Sleep Off, 1-Sleep On | 1 bit | boolean |
| 73 | Status Sleep Function [DPT 1.002 - 1bit] | 0-Sleep Off, 1-Sleep On | 1 bit | boolean |

Sleep Function can be activated with the value '1' written to the 1-Bit Control Sleep Function group object. When the indoor unit activates sleep function, a feedback with the value '1' will be sent via the related Status Sleep Function object.

For detailed information about sleep function, please review your product manual.

### 3.2.7 ENABLE QUIET FUNCTION

With this parameter, 1-Bit group objects can be activated. It is disabled by default. When activated, the specified group objects become available.

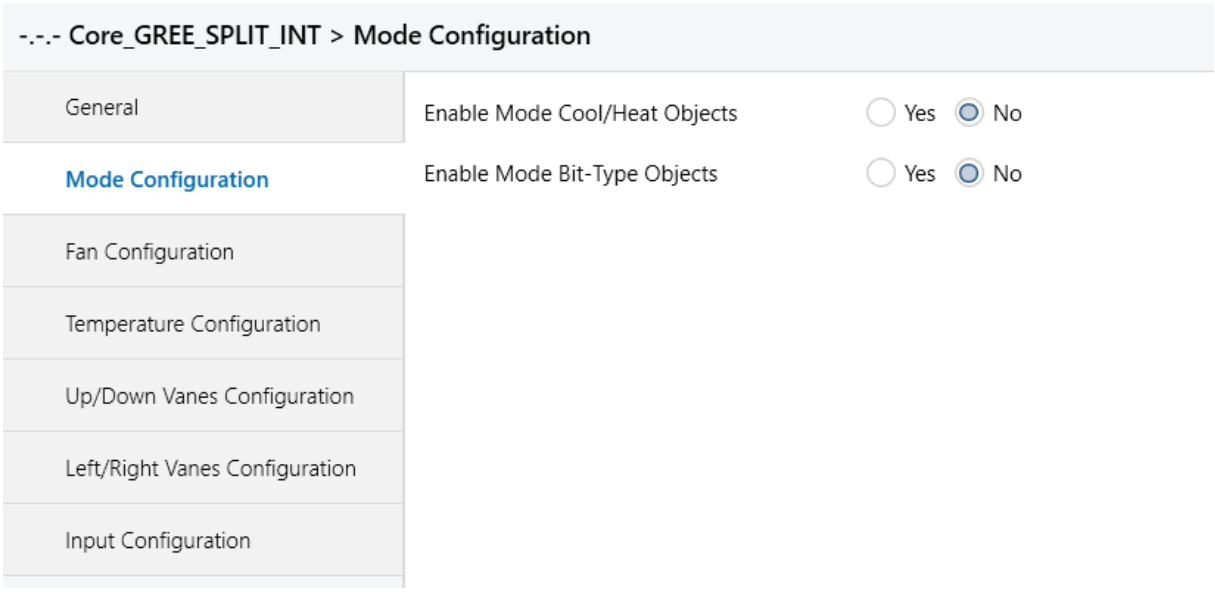
| | | | | |
|---|---|---|---|---|
| 74 | Control Quiet Function [DPT 1.002 - 1bit] | 0-Quiet Off, 1-Quiet On | 1 bit | boolean |
| 75 | Status Quiet Function [DPT 1.002 - 1bit] | 0-Quiet Off, 1-Quiet On | 1 bit | boolean |

Quiet Function can be activated with the value '1' written to the 1-Bit Control Quiet Function group object. When the indoor unit activates Quiet function, a feedback with the value '1' will be sent via the related Status Quiet Function object.

For detailed information about Quiet function, please review your product manual.

## 3.3. MODE CONFIGURATION

Contains the parameters related to the operating modes of the indoor unit. Default parameter settings are as specified.




| | | | | |
|---|---|---|---|---|
| 3 | Control Mode [DPT 20.105 - 1byte] | 0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry | 1 byte | HVAC control mode |
| 4 | Status Mode [DPT 20.105 - 1byte] | 0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry | 1 byte | HVAC control mode |

With the values written to DPT 20.105 Byte type Control_Mode group object, '0' Auto, '1' Heating, '3' Cooling, '9' Fan and '14' Dry/Dehumidification mode can be activated. When the indoor unit switches to the specified operating mode, feedback will be sent via Status_Mode group object. Operation mode info can also be obtained by reading the same group object.

### 3.3.1 ENABLE MODE COOL/HEAT OBJECTS

With this parameter, group object that allows switching between Heating and Cooling modes can be activated. It is disabled by default. When enabled, following group objects become available.

| | | | | |
|---|---|---|---|---|
| 5 | Control Mode Cool/Heat [DPT 1.100 - 1bit] | 0-Cool, 1-Heat | 1 bit | cooling/heating |
| 6 | Status Mode Cool/Heat [DPT 1.100 - 1bit] | 0-Cool, 1-Heat | 1 bit | cooling/heating |

Cooling mode can be activated with the value '0' written to the 1-Bit Control_Mode Cool/Heat group object. When the indoor unit switches to the specified operating mode, a feedback with the value '0' will be sent via the Status_Mode Cool/Heat object.

Heating mode can be activated with the '1' value written to the 1-Bit Control_Mode Cool/Heat group object. When the indoor unit switches to the specified operating mode, a feedback with the value '1' will be sent via the Status_Mode Cool/Heat object.

**Invert Cool/Heat Values**

With this parameter, group object that allows switching between Heating and Cooling modes can be inverted. When inverted:

Cooling mode can be activated with the value '1' written to the 1-Bit Control_Mode Cool/Heat group object. When the indoor unit switches to the specified operating mode, a feedback with the value '1' will be sent via the Status_Mode Cool/Heat object.

Heating mode can be activated with the '0' value written to the 1-Bit Control_Mode Cool/Heat group object. When the indoor unit switches to the specified operating mode, a feedback with the value '0' will be sent via the Status_Mode Cool/Heat object.

| | | | | |
|---|---|---|---|---|
| 5 | Control Mode Heat/Cool [DPT 1.100 - 1bit] | 0-Heat, 1-Cool | 1 bit | cooling/heating |
| 6 | Status Mode Heat/Cool [DPT 1.100 - 1bit] | 0-Heat, 1-Cool | 1 bit | cooling/heating |

### 3.3.2 ENABLE MODE BIT-TYPE OBJECTS

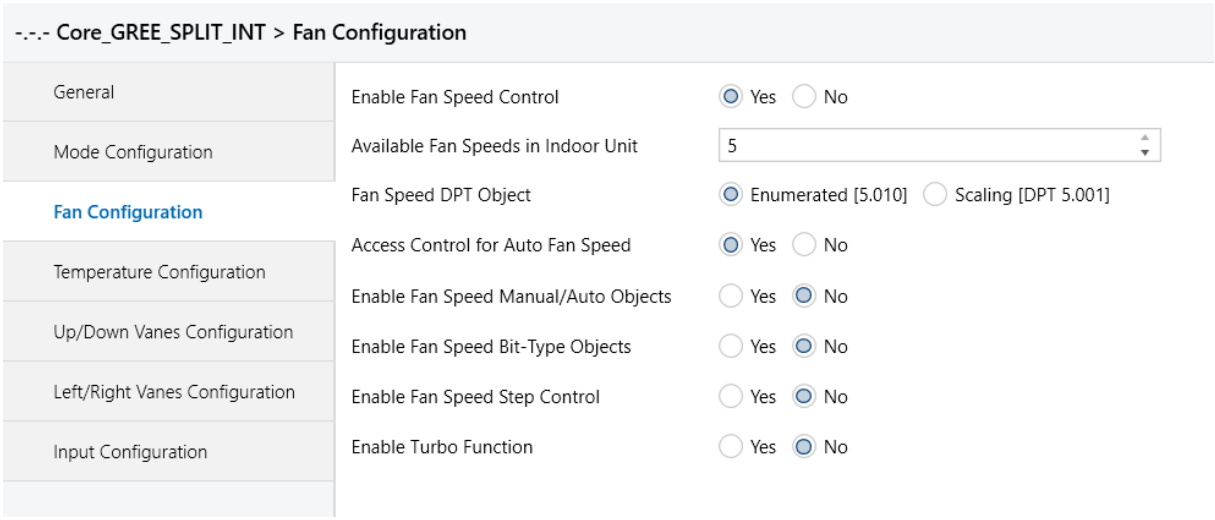
With this parameter, 1-Bit group objects can be activated for each operating mode. It is disabled by default. When enabled, the specified group objects become available.

| | | | | |
|---|---|---|---|---|
| 7 | Control Mode Auto [DPT 1.002 - 1bit] | 1-Set AUTO Mode | 1 bit | boolean |
| 8 | Status Mode Auto [DPT 1.002 - 1bit] | 1-AUTO Mode is active | 1 bit | boolean |
| 9 | Control Mode Heat [DPT 1.002 - 1bit] | 1-Set HEAT Mode | 1 bit | boolean |
| 10 | Status Mode Heat [DPT 1.002 - 1bit] | 1-HEAT Mode is active | 1 bit | boolean |
| 11 | Control Mode Cool [DPT 1.002 - 1bit] | 1-Set COOL Mode | 1 bit | boolean |
| 12 | Status Mode Cool [DPT 1.002 - 1bit] | 1-COOL Mode is active | 1 bit | boolean |
| 13 | Control Mode Fan [DPT 1.002 - 1bit] | 1-Set FAN Mode | 1 bit | boolean |
| 14 | Status Mode Fan [DPT 1.002 - 1bit] | 1-FAN Mode is active | 1 bit | boolean |
| 15 | Control Mode Dry [DPT 1.002 - 1bit] | 1-Set DRY Mode | 1 bit | boolean |
| 16 | Status Mode Dry [DPT 1.002 - 1bit] | 1-DRY Mode is active | 1 bit | boolean |

The specified operating mode can be activated with the value '1' written to the 1-Bit Control_Mode group object which belongs to the relevant operating mode. When the indoor unit switches to the specified operation mode, a feedback with the value of '1' will be sent via the relevant Status_Mode object.

## 3.4. FAN CONFIGURATION

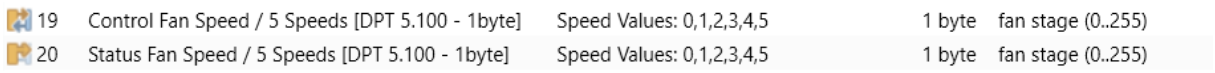
This tab contains the parameters related to the Fan Speed controls of the indoor unit. Default parameter settings are as specified.




### 3.4.1 ENABLE FAN SPEED CONTROL

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

When disabled, all parameters and group objects related to Fan Speed controls will also be disabled. It is enabled by default and the specified group objects are available for use.




### 3.4.2 AVAILABLE FAN SPEEDS IN INDOOR UNIT

Number of different available speed values defined for fan control can be selected via this parameter. The number of related group objects and their settings are updated according to this parameter.

For detailed information about Fan Speed values supported by your indoor unit, please review your product manual.

### 3.4.3 FAN SPEED DPT OBJECT TYPE

With this parameter, DPTs of Byte type group objects used in fan speed control can be changed. It is possible to switch between Scaling (DPT_5.001) and Enumerated (DPT_5.010) data types.

Since the Byte type group objects related to Fan Speed are the same, the values they accept will vary according to the selected fan speed steps and DPT. For example, when Fan Speed steps are selected as '3' and data type is selected as Enumerated (DPT_5.010), values '1', '2' or '3' will be accepted as Fan Speed. In the same scenario, when '0' is sent, the minimum Fan speed value will be treated as '1' (If Auto Fan Speed is not selected) and when a value greater than '3' is sent, the maximum Fan speed value will be treated as '3'.

When Scaling (DPT_5.001] is selected as DPT, Byte type Control_Fan_Speed and Status_Fan_Speed objects will appear as specified depending on the selected Fan Speed steps.

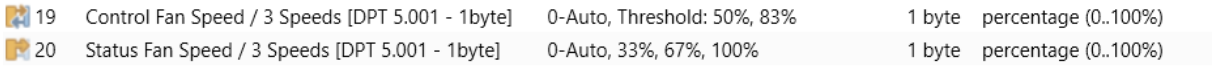



Table containing the ranges that can be sent to the Control_ Fan_Speed object for each Fan Speed of the Scaling (DPT_5.001) data type and the return values of the Status_Fan_Speed object is given below.

| | *FAN Speed 1* | *FAN Speed 2* | *FAN Speed 3* | *FAN Speed 4* | *FAN Speed 5* |
|---|---|---|---|---|---|
| *Control* | *0-49%* | *50-82%* | *83-100%* | | |
| *Status* | *33%* | *67%* | *100%* | | |
| *Control* | *0-29%* | *30-49%* | *50-69%* | *70-89%* | *90-100%* |
| *Status* | *20%* | *40%* | *60%* | *80%* | *100%* |

### 3.4.4 ACCESS CONTROL FOR AUTO FAN SPEED

With this parameter, if there is an Automatic mode for the Fan Speed, it can be actived. It is disabled by default. When enabled, Automatic Fan Speed can be activated with the value '0' written to the 1-Byte Control Fan_Speed group object of the relevant Fan Speed. When the indoor unit switches to Automatic Fan Speed, a feedback with the value '0' will be sent via the related Status_Fan_Speed object.

### 3.4.4.1 ENABLE FAN SPEED MANUAL/AUTO OBJECTS

When activated, the specified group objects become available

| | | | | |
|---|---|---|---|---|
| 21 | Control Fan Speed Manual/Auto [DPT 1.002 - 1bit] | 0-Manual, 1-Auto | 1 bit | boolean |
| 22 | Status Fan Speed Manual/Auto [DPT 1.002 - 1bit] | 0-Manual, 1-Auto | 1 bit | boolean |

Automatic Fan Speed can be activated with the value '1' written to the 1-Bit Control_Fan_Speed_Manual/Auto group object of the relevant Fan Speed. When the indoor unit switches to Automatic Fan Speed, a feedback with the value '1' will be sent via the related Status_Fan_Speed_Manula/Auto object.

### 3.4.5 ENABLE USE OF BIT-TYPE FAN SPEED OBJECTS

With this parameter, 1-Bit group objects can be activated for each Fan Speed. It is disabled by default. When activated, the specified group objects become available according to the selected fan speed steps.

| | | | | |
|---|---|---|---|---|
| 23 | Control Fan Speed 1 [DPT 1.002 - 1bit] | 1-Set Fan Speed 1 | 1 bit | boolean |
| 24 | Status Fan Speed 1 [DPT 1.002 - 1bit] | 1-Fan Sped 1 | 1 bit | boolean |
| 25 | Control Fan Speed 2 [DPT 1.002 - 1bit] | 1-Set Fan Speed 2 | 1 bit | boolean |
| 26 | Status Fan Speed 2 [DPT 1.002 - 1bit] | 1-Fan Sped 2 | 1 bit | boolean |
| 27 | Control Fan Speed 3 [DPT 1.002 - 1bit] | 1-Set Fan Speed 3 | 1 bit | boolean |
| 28 | Status Fan Speed 3 [DPT 1.002 - 1bit] | 1-Fan Sped 3 | 1 bit | boolean |
| 29 | Control Fan Speed 4 [DPT 1.002 - 1bit] | 1-Set Fan Speed 4 | 1 bit | boolean |
| 30 | Status Fan Speed 4 [DPT 1.002 - 1bit] | 1-Fan Sped 4 | 1 bit | boolean |
| 31 | Control Fan Speed 5 [DPT 1.002 - 1bit] | 1-Set Fan Speed 5 | 1 bit | boolean |
| 32 | Status Fan Speed 5 [DPT 1.002 - 1bit] | 1-Fan Sped 5 | 1 bit | boolean |

Specified Fan Speed can be activated with the value of '1' written to the 1-Bit Control-Fan_Speed group object of the relevant Fan Speed.

When the indoor unit switches to the selected Fan Speed, feedback with the value of '1' will be sent via the related Status_Fan_Speed object.

### 3.4.6 ENABLE FAN SPEED STEP CONTROL

With this parameter, 1-Bit group object can be activated. It is disabled by default. When activated, the specified group object becomes available.

| | | | | |
|---|---|---|---|---|
| 33 | Control Fan Speed -/+ [DPT 1.007 - 1bit] | 0-Decrease, 1-Increase | 1 bit | step |

Fan speed changes to next level with the value “1” and to previous level with the value “0” written to the 1-Bit Control_Fan_Speed -/+ object. Fan speed level change continues cyclically according to each value written to the object. (For example, if indoor unit has 3 fan speed and auto speed, the changes of fan speed with each value “1” will be as follows: 0>1>2>3>0>1>…)

### 3.4.7 ENABLE TURBO FUNCTION

With this parameter, 1-Bit group objects can be activated. It is disabled by default. When activated, the specified group objects become available.

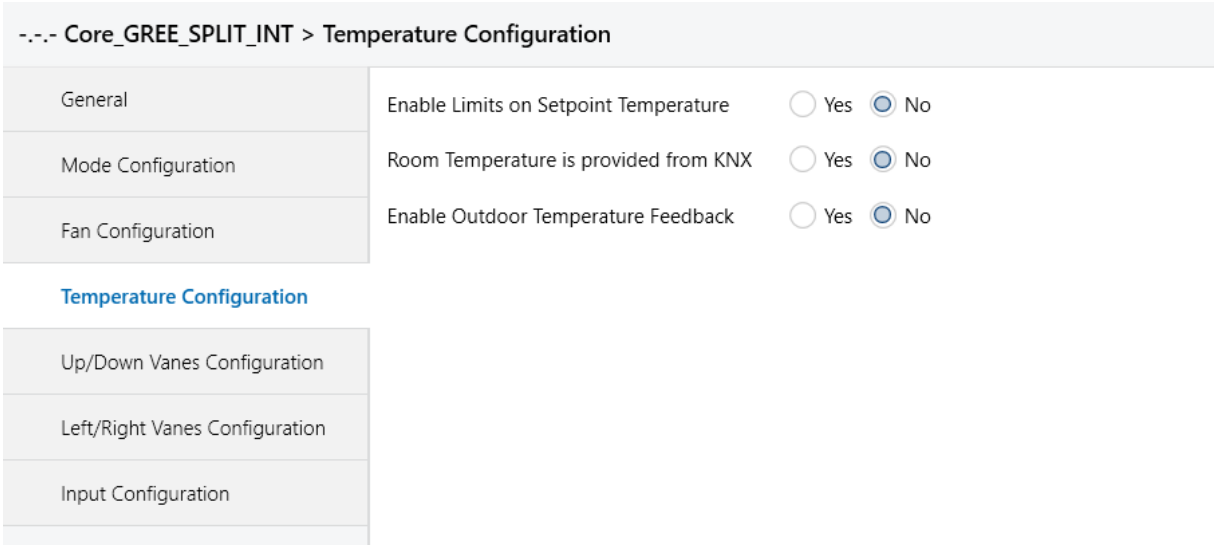
| | | | | |
|---|---|---|---|---|
| 68 | Control Turbo Function [DPT 1.002 - 1bit] | 0-Turbo Off, 1-Turbo On | 1 bit | boolean |
| 69 | Status Turbo Function [DPT 1.002 - 1bit] | 0-Turbo Off, 1-Turbo On | 1 bit | boolean |

Turbo Function can be activated with the value '1' written to the 1-Bit Control Turbo Function group object. When the indoor unit activates Turbo function, a feedback with the value '1' will be sent via the related Status Turbo Function object.

For detailed information about Turbo function, please review your product manual.

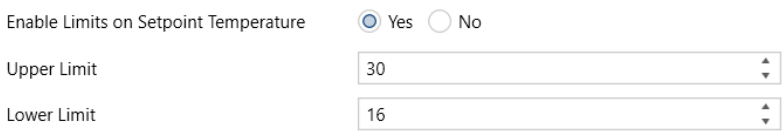
## 3.5. TEMPERATURE CONFIGURATION

Contains controls related to Target Temperature and Ambient Temperature. By default, the Parameter tab appears as follows.




### 3.5.1 ENABLE LIMITS ON SETPOINT TEMP.

The minimum and maximum Target Temperature values can be restricted with this parameter. It is disabled by default. When activated,




Minimum and maximum Target Temperature values can be selected. Every value that is below the determined minimum value will be considered as the minimum value and any value that is above the specified maximum value will also be processed as the maximum value.

Please refer to your product manual for the minimum and maximum Target Temperature values supported by your indoor unit.

### 3.5.2 ROOM TEMPERATURE IS PROVIDED FROM KNX

It is the parameter that determines the source of the ambient temperature value processed by the indoor unit. It is disabled by default; in this case the indoor unit reads the ambient temperature through its internal sensor. When the parameter is selected as active, the specified group object becomes available,

| | | | | |
|---|---|---|---|---|
| 34 | Control AC Room Temperature [DPT 9.001 - 2byte] | °C value | 2 bytes | temperature (°C) |

Ambient temperature data to be processed by the indoor unit can be written externally to this group object.

Please review your product manual to determine if your indoor unit supports this feature.

### 3.5.3 ENABLE OUTDOOR TEMPERATURE FEEDBACK

It is possible to receive outdoor temperature measured by AC Outdoor unit via Core Gree Split AC gateway. When enabled, the specified group object becomes available:

| | | | | |
|---|---|---|---|---|
| 76 | Status AC Outdoor Temperature [DPT 9.001 - 2byte] | °C value | 2 bytes | temperature (°C) |

## 3.6. VANES UP-DOWN CONFIGURATION

Group objects that control the up and down position of the vanes of the indoor unit can be activated with this parameter. It is disabled by default, when enabled,

| | | | |
|---|---|---|---|
| 36 | Control Vanes Up/Down [DPT 5.010 - 1byte] | 0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-Pos5, 6-Swing On | 1 byte |
| 37 | Status Vanes Up/Down [DPT 5.010 - 1byte] | 0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-Pos5, 6-Swing On | 1 byte |

Group objects will become available. The '1', '2', '3', '4' and '5' values sent to the Control Vanes Up/Down object determine the up-down position of the vanes, while the value '6' will cause these vanes to move periodically.

When the indoor unit switches to the corresponding control value, feedback will be sent via Status Vanes Up/Down object.

It is possible to enable 1 bit objects for each position. When enabled,

| | | | | |
|---|---|---|---|---|
| 38 | Control Vanes Up/Down Swing [DPT 1.002 - 1bit] | 0-Up/Down Swing Off, 1-Up/Down Swing On | 1 bit | boolean |
| 39 | Status Vanes Up/Down Swing [DPT 1.002 - 1bit] | 0-Up/Down Swing Off, 1-Up/Down Swing On | 1 bit | boolean |
| 40 | Control Vanes Up/Down Pos 1 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 1 | 1 bit | boolean |
| 41 | Status Vanes Up/Down Pos 1 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 1 | 1 bit | boolean |
| 42 | Control Vanes Up/Down Pos 2 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 2 | 1 bit | boolean |
| 43 | Status Vanes Up/Down Pos 2 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 2 | 1 bit | boolean |
| 44 | Control Vanes Up/Down Pos 3 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 3 | 1 bit | boolean |
| 45 | Status Vanes Up/Down Pos 3 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 3 | 1 bit | boolean |
| 46 | Control Vanes Up/Down Pos 4 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 4 | 1 bit | boolean |
| 47 | Status Vanes Up/Down Pos 4 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 4 | 1 bit | boolean |
| 48 | Control Vanes Up/Down Pos 5 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 5 | 1 bit | boolean |
| 49 | Status Vanes Up/Down Pos 5 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 5 | 1 bit | boolean |

Specified vane position can be activated with the value of '1' written to the 1-Bit Control Vanes Up/Down_x group object of the relevant vane position.

When the indoor unit switches to the selected vane position, feedback with the value of '1' will be sent via the related Status Vanes Up/Down_x object.

Please refer to your product manual for the availability of the up-down vanes in your indoor unit and the number of vane positions it supports.

## 3.7. VANES LEFT-RIGHT CONFIGURATION

Group objects that control the left and right position of the vanes of the indoor unit can be activated with this parameter. It is disabled by default, when enabled,

| | | | |
|---|---|---|---|
| 50 | Control Vanes Left/Right [DPT 5.010 - 1byte] | 0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-Pos5, 6-Swing On | 1 byte |
| 51 | Status Vanes Left/Right [DPT 5.010 - 1byte] | 0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-Pos5, 6-Swing On | 1 byte |

Group objects will become available. The '1', '2', '3', '4' and '5' values sent to the Control Vanes Left/Right object determine the up-down position of the vanes, while the value '6' will cause these vanes to move periodically.

When the indoor unit switches to the corresponding control value, feedback will be sent via Status Vanes Left/Right object.

It is possible to enable 1 bit objects for each position. When enabled,

| | | | | |
|---|---|---|---|---|
| 52 | Control Vanes Left/Right Swing [DPT 1.002 - 1bit] | 0-Left/Right Swing Off, 1-Left/Right Swing On | 1 bit | boolean |
| 53 | Status Vanes Left/Right Swing [DPT 1.002 - 1bit] | 0-Left/Right Swing Off, 1-Left/Right Swing On | 1 bit | boolean |
| 54 | Control Vanes Left/Right Pos 1 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 1 | 1 bit | boolean |
| 55 | Status Vanes Left/Right Pos 1 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 1 | 1 bit | boolean |
| 56 | Control Vanes Left/Right Pos 2 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 2 | 1 bit | boolean |
| 57 | Status Vanes Left/Right Pos 2 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 2 | 1 bit | boolean |
| 58 | Control Vanes Left/Right Pos 3 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 3 | 1 bit | boolean |
| 59 | Status Vanes Left/Right Pos 3 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 3 | 1 bit | boolean |
| 60 | Control Vanes Left/Right Pos 4 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 4 | 1 bit | boolean |
| 61 | Status Vanes Left/Right Pos 4 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 4 | 1 bit | boolean |
| 62 | Control Vanes Left/Right Pos 5 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 5 | 1 bit | boolean |
| 63 | Status Vanes Left/Right Pos 5 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 5 | 1 bit | boolean |

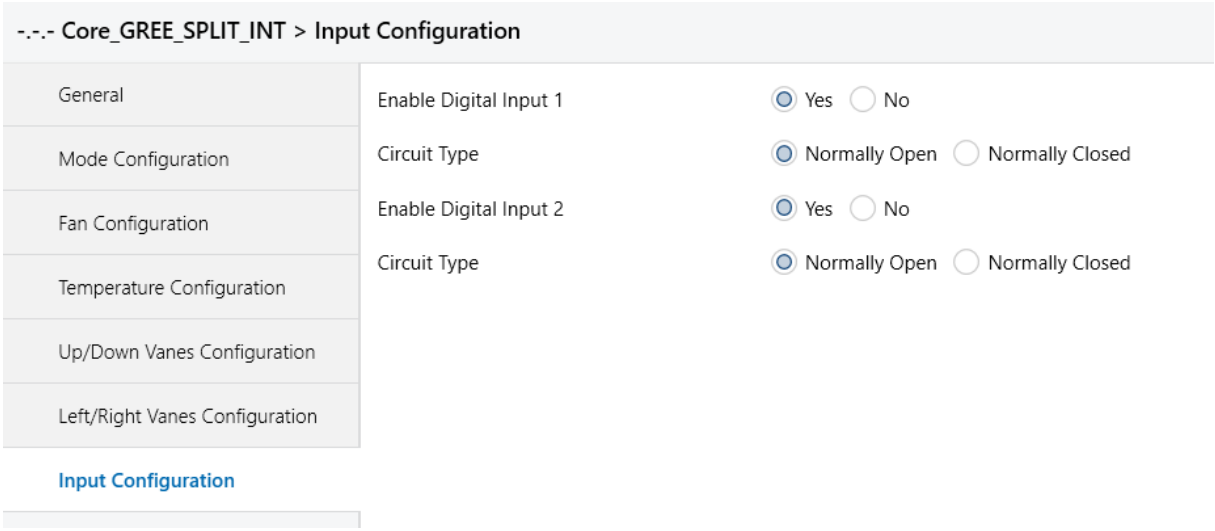
Specified vane position can be activated with the value of '1' written to the 1-Bit Control Vanes Left/Right_x group object of the relevant vane position.

When the indoor unit switches to the selected vane position, feedback with the value of '1' will be sent via the related Status Vanes Left/Right_x object.

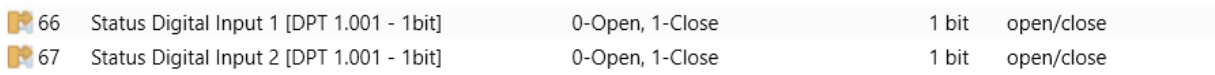
Please refer to your product manual for the availability of the left-right vanes in your indoor unit and the number of vane positions it supports.

## 3.8. INPUT CONFIGURATION

Tab contains the parameter settings of two dry contact inputs on the device.




By default, these inputs are disabled. When activated, the contact type of each input Normally Open (NO) and Normally Closed (NC) selection parameters are also displayed and the specified group objects become available for use,




Input 1. According to the contact type, when the input is activated, the red segment of the Status LED on the device will become active. Also, '0' or '1' information will be sent over the group object of this input in case of status changes.

Input 2. According to the contact type, when the input is activated, the green segment of the Status LED on the device will become active. Also, '0' or '1' information will be sent over the group object of this input in case of status changes.

# 4. APPENDIX 1 – COMMUNICATION OBJECTS TABLE

| No | Name | Function text | Object size | Flags | Datapoint types |
|---|---|---|---|---|---|
| 1 | Control On/Off [DPT 1.001 - 1bit] | 0-Off, 1-On | 1Bit | RWC-U- | [1.1] DPT_Switch |
| 2 | Status On/Off [DPT 1.001 - 1bit] | 0-Off, 1-On | 1Bit | R-CT-- | [1.1] DPT_Switch |
| 3 | Control Mode [DPT 20.105 - 1byte] | 0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry | 1Byte | RWC-U- | [20.105] DPT_HVACContrMode |
| 4 | Status Mode [DPT 20.105 - 1byte] | 0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry | 1Byte | R-CT-- | [20.105] DPT_HVACContrMode |
| 5 | Control Mode Heat/Cool [DPT 1.100 - 1bit] | 0-Heat, 1-Cool | 1Bit | RWC-U- | [1.100] DPT_Heat_Cool |
| 5 | Control Mode Cool/Heat [DPT 1.100 - 1bit] | 0-Cool, 1-Heat | 1Bit | RWC-U- | [1.100] DPT_Heat_Cool |
| 6 | Status Mode Cool/Heat [DPT 1.100 - 1bit] | 0-Cool, 1-Heat | 1Bit | R-CT-- | [1.100] DPT_Heat_Cool |
| 6 | Status Mode Heat/Cool [DPT 1.100 - 1bit] | 0-Heat, 1-Cool | 1Bit | R-CT-- | [1.100] DPT_Heat_Cool |
| 7 | Control Mode Auto [DPT 1.002 - 1bit] | 1-Set AUTO Mode | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 8 | Status Mode Auto [DPT 1.002 - 1bit] | 1-AUTO Mode is active | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 9 | Control Mode Heat [DPT 1.002 - 1bit] | 1-Set HEAT Mode | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 10 | Status Mode Heat [DPT 1.002 - 1bit] | 1-HEAT Mode is active | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 11 | Control Mode Cool [DPT 1.002 - 1bit] | 1-Set COOL Mode | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 12 | Status Mode Cool [DPT 1.002 - 1bit] | 1-COOL Mode is active | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 13 | Control Mode Fan [DPT 1.002 - 1bit] | 1-Set FAN Mode | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 14 | Status Mode Fan [DPT 1.002 - 1bit] | 1-FAN Mode is active | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 15 | Control Mode Dry [DPT 1.002 - 1bit] | 1-Set DRY Mode | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 16 | Status Mode Dry [DPT 1.002 - 1bit] | 1-DRY Mode is active | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 17 | Control Setpoint Temperature [DPT 9.001 - 2byte] | °C value | 2Bytes | RWC-U- | [9.1] DPT_Value_Temp |
| 18 | Status Setpoint Temperature [DPT 9.001 - 2byte] | °C value | 2Bytes | R-CT-- | [9.1] DPT_Value_Temp |
| 19 | Control Fan Speed / 3 Speeds [DPT 5.100 - 1byte] | Speed Values: 0,1,2,3 | 1Byte | RWC-U- | [5.100] DPT_FanStage |

| | | | | | |
|---|---|---|---|---|---|
| 19 | Control Fan Speed / 5 Speeds [DPT 5.100 - 1byte] | Speed Values: 1,2,3,4,5 | 1Byte | RWC-U- | [5.100] DPT_FanStage |
| 19 | Control Fan Speed / 3 Speeds [DPT 5.001 - 1byte] | Threshold: 50%, 83% | 1Byte | RWC-U- | [5.001] DPT_Percentage |
| 19 | Control Fan Speed / 3 Speeds [DPT 5.001 - 1byte] | 0-Auto, Threshold: 50%, 83% | 1Byte | RWC-U- | [5.001] DPT_Percentage |
| 19 | Control Fan Speed / 5 Speeds [DPT 5.001 - 1byte] | Threshold: 30%, 50%, 70%, 90% | 1Byte | RWC-U- | [5.001] DPT_Percentage |
| 19 | Control Fan Speed / 5 Speeds [DPT 5.001 - 1byte] | 0-Auto, Threshold: 30%, 50%, 70%, 90% | 1Byte | RWC-U- | [5.001] DPT_Percentage |
| 19 | Control Fan Speed / 5 Speeds [DPT 5.100 - 1byte] | Speed Values: 0,1,2,3,4,5 | 1Byte | RWC-U- | [5.100] DPT_FanStage |
| 19 | Control Fan Speed / 3 Speeds [DPT 5.100 - 1byte] | Speed Values: 1,2,3 | 1Byte | RWC-U- | [5.100] DPT_FanStage |
| 20 | Status Fan Speed / 5 Speeds [DPT 5.100 - 1byte] | Speed Values: 0,1,2,3,4,5 | 1Byte | R-CT-- | [5.100] DPT_FanStage |
| 20 | Status Fan Speed / 3 Speeds [DPT 5.001 - 1byte] | 0-Auto, 33%, 67%, 100% | 1Byte | R-CT-- | [5.001] DPT_Percentage |
| 20 | Status Fan Speed / 3 Speeds [DPT 5.001 - 1byte] | 33%, 67%, 100% | 1Byte | R-CT-- | [5.001] DPT_Percentage |
| 20 | Status Fan Speed / 5 Speeds [DPT 5.001 - 1byte] | 20%, 40%, 60%, 80%, 100% | 1Byte | R-CT-- | [5.001] DPT_Percentage |
| 20 | Status Fan Speed / 3 Speeds [DPT 5.100 - 1byte] | Speed Values: 0,1,2,3 | 1Byte | R-CT-- | [5.100] DPT_FanStage |
| 20 | Status Fan Speed / 3 Speeds [DPT 5.100 - 1byte] | Speed Values: 1,2,3 | 1Byte | R-CT-- | [5.100] DPT_FanStage |
| 20 | Status Fan Speed / 5 Speeds [DPT 5.001 - 1byte] | 0-Auto, 20%, 40%, 60%, 80%, 100% | 1Byte | R-CT-- | [5.001] DPT_Percentage |
| 20 | Status Fan Speed / 5 Speeds [DPT 5.100 - 1byte] | Speed Values: 1,2,3,4,5 | 1Byte | R-CT-- | [5.100] DPT_FanStage |
| 21 | Control Fan Speed Manual/Auto [DPT 1.002 - 1bit] | 0-Manual, 1-Auto | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 22 | Status Fan Speed Manual/Auto [DPT 1.002 - 1bit] | 0-Manual, 1-Auto | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 23 | Control Fan Speed 1 [DPT 1.002 - 1bit] | 1-Set Fan Speed 1 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 24 | Status Fan Speed 1 [DPT 1.002 - 1bit] | 1-Fan Sped 1 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 25 | Control Fan Speed 2 [DPT 1.002 - 1bit] | 1-Set Fan Speed 2 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 26 | Status Fan Speed 2 [DPT 1.002 - 1bit] | 1-Fan Sped 2 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 27 | Control Fan Speed 3 [DPT 1.002 - 1bit] | 1-Set Fan Speed 3 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 28 | Status Fan Speed 3 [DPT 1.002 - 1bit] | 1-Fan Sped 3 | 1Bit | R-CT-- | [1.2] DPT_Bool |

| | | | | | |
|---|---|---|---|---|---|
| 29 | Control Fan Speed 4 [DPT 1.002 - 1bit] | 1-Set Fan Speed 4 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 30 | Status Fan Speed 4 [DPT 1.002 - 1bit] | 1-Fan Sped 4 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 31 | Control Fan Speed 5 [DPT 1.002 - 1bit] | 1-Set Fan Speed 5 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 32 | Status Fan Speed 5 [DPT 1.002 - 1bit] | 1-Fan Sped 5 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 33 | Control Fan Speed +/- [DPT 1.008 - 1bit] | 0-Up, 1-Down | 1Bit | RWC-U- | [1.8] DPT_UpDown |
| 33 | Control Fan Speed -/+ [DPT 1.007 - 1bit] | 0-Decrease, 1-Increase | 1Bit | RWC-U- | [1.8] DPT_UpDown |
| 34 | Control AC Room Temperature [DPT 9.001 - 2byte] | °C value | 2Bytes | RWC-U- | [9.1] DPT_Value_Temp |
| 35 | Status AC Room Temperature [DPT 9.001 - 2byte] | °C value | 2Bytes | R-CT-- | [9.1] DPT_Value_Temp |
| 36 | Control Vanes Up/Down [DPT 5.010 - 1byte] | 0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-Pos5, 6-Swing On | 1Byte | RWC-U- | [Non standard] Vanes Up-Down |
| 37 | Status Vanes Up/Down [DPT 5.010 - 1byte] | 0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-Pos5, 6-Swing On | 1Byte | R-CT-- | [Non standard] Vanes Up-Down |
| 38 | Control Vanes Up/Down Swing [DPT 1.002 - 1bit] | 0-Up/Down Swing Off, 1-Up/Down Swing On | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 39 | Status Vanes Up/Down Swing [DPT 1.002 - 1bit] | 0-Up/Down Swing Off, 1-Up/Down Swing On | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 40 | Control Vanes Up/Down Pos 1 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 1 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 41 | Status Vanes Up/Down Pos 1 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 1 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 42 | Control Vanes Up/Down Pos 2 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 2 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 43 | Status Vanes Up/Down Pos 2 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 2 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 44 | Control Vanes Up/Down Pos 3 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 3 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 45 | Status Vanes Up/Down Pos 3 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 3 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 46 | Control Vanes Up/Down Pos 4 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 4 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 47 | Status Vanes Up/Down Pos 4 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 4 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 48 | Control Vanes Up/Down Pos 5 [DPT 1.002 - 1bit] | 1-Set Up/Down Vane Pos 5 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 49 | Status Vanes Up/Down Pos 5 [DPT 1.002 - 1bit] | 1-Up/Down Vanes Pos 5 | 1Bit | R-CT-- | [1.2] DPT_Bool |

| | | | | | |
|---|---|---|---|---|---|
| 50 | Control Vanes Left/Right [DPT 5.010 - 1byte] | 0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-Pos5, 6-Swing On | 1Byte | RWC-U- | [Non standard] Vanes Left-Right |
| 51 | Status Vanes Left/Right [DPT 5.010 - 1byte] | 0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-Pos5, 6-Swing On | 1Byte | R-CT-- | [Non standard] Vanes Left-Right |
| 52 | Control Vanes Left/Right Swing [DPT 1.002 - 1bit] | 0-Left/Right Swing Off, 1-Left/Right Swing On | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 53 | Status Vanes Left/Right Swing [DPT 1.002 - 1bit] | 0-Left/Right Swing Off, 1-Left/Right Swing On | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 54 | Control Vanes Left/Right Pos 1 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 1 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 55 | Status Vanes Left/Right Pos 1 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 1 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 56 | Control Vanes Left/Right Pos 2 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 2 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 57 | Status Vanes Left/Right Pos 2 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 2 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 58 | Control Vanes Left/Right Pos 3 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 3 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 59 | Status Vanes Left/Right Pos 3 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 3 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 60 | Control Vanes Left/Right Pos 4 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 4 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 61 | Status Vanes Left/Right Pos 4 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 4 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 62 | Control Vanes Left/Right Pos 5 [DPT 1.002 - 1bit] | 1-Set Left/Right Vane Pos 5 | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 63 | Status Vanes Left/Right Pos 5 [DPT 1.002 - 1bit] | 1-Left/Right Vanes Pos 5 | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 64 | Status Error Code [2byte] | 0-No Error / Any other value see man. | 2Bytes | R-CT-- | [Non standard] Status_Error_Code [2byte] |
| 65 | Error Code / Alarm [DPT 1.005 - 1bit] | 0-No Error | 1Bit | R-CT-- | [1.5] DPT_Alarm |
| 66 | Status Digital Input 1 [DPT 1.001 - 1bit] | 0-Open, 1-Close | 1Bit | R-CT-- | [1.9] DPT_OpenClose |
| 67 | Status Digital Input 2 [DPT 1.001 - 1bit] | 0-Open, 1-Close | 1Bit | R-CT-- | [1.9] DPT_OpenClose |
| 68 | Control Turbo Function [DPT 1.002 - 1bit] | 0-Turbo Off, 1-Turbo On | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 69 | Status Turbo Function [DPT 1.002 - 1bit] | 0-Turbo Off, 1-Turbo On | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 70 | Control Health Function [DPT 1.002 - 1bit] | 0-Health Off, 1-Health On | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 71 | Status Health Function [DPT 1.002 - 1bit] | 0-Health Off, 1-Health On | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 72 | Control Sleep Function [DPT 1.002 - 1bit] | 0-Sleep Off, 1-Sleep On | 1Bit | RWC-U- | [1.2] DPT_Bool |

| | | | | | |
|---|---|---|---|---|---|
| 73 | Status Sleep Function [DPT 1.002 - 1bit] | 0-Sleep Off, 1-Sleep On | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 74 | Control Quiet Function [DPT 1.002 - 1bit] | 0-Quiet Off, 1-Quiet On | 1Bit | RWC-U- | [1.2] DPT_Bool |
| 75 | Status Quiet Function [DPT 1.002 - 1bit] | 0-Quiet Off, 1-Quiet On | 1Bit | R-CT-- | [1.2] DPT_Bool |
| 76 | Status AC Outdoor Temperature [DPT 9.001 - 2byte] | °C value | 2Bytes | R-CT-- | [9.1] DPT_Value_Temp |

## 5. APPENDIX 2 – TABLE OF ERROR CODES

| ETS Error Code | ETS Error Code | | |
|---|---|---|---|
| **Decimal** | **Hexadecimal** | **Error Code** | **Malfunction Name** |
| 17205 | 0x4335 | C5 | Malfunction of jumper cap |
| 17718 | 0x4536 | E6 | Communication malfunction between indoor unit and outdoor unit |
| 18485 | 0x4835 | H5 | IPM protection |
| 19507 | 0x4C33 | L3 | Malfunction of outdoor fan / Malfuction of DC motor |
| 19521 | 0x4C41 | LA | Malfunction of outdoor fan / Malfuction of DC motor |
| 18483 | 0x4833 | H3 | Overload protection of compressor |
| 17968 | 0x4630 | F0 | Refrigerant insufficient protection, cut-off protection of refrigerant |
| 17969 | 0x4631 | F1 | Indoor ambient temperature sensor is open/short-circuited |
| 17970 | 0x4632 | F2 | Indoor evaporator temperature sensor is open/short-circuited |
| 18486 | 0x4836 | H6 | No feedback from indoor unit's motor |
| 19536 | 0x4C50 | LP | Indoor unit and outdoor can be matched with each other |
| 17204 | 0x4334 | C4 | Malfunction of jumper cap of outdoor unit |
| 25143 | 0x6237 | b7 | Gas valve temperature sensor is ON/short-circuited |
| 25141 | 0x6235 | b5 | Liquid valve temperature sensor is ON/short-circuited |
| 17713 | 0x4531 | E1 | High pressure protection of system |
| 17715 | 0x4533 | E3 | Low pressure/low system pressure protection/compressor low pressure protection |
| 17716 | 0x4534 | E4 | High discharge temperature protection of compressor |
| 17717 | 0x4535 | E5 | AC overcurrent protection |
| 17719 | 0x4537 | E7 | Mode shock/system mode shock |

| | | | |
|---|---|---|---|
| 17720 | 0x4538 | E8 | High temperature prevention protection |
| 17733 | 0x4545 | EE | Malfunction of EEPROM |
| 18031 | 0x466F | Fo | Refrigerant-recovery mode |
| 17971 | 0x4633 | F3 | Outdoor ambient temperature is open/short-circuited |
| 17972 | 0x4634 | F4 | Outdoor condenser temperature sensor is open/short-circuited |
| 17973 | 0x4635 | F5 | Outdoor air discharge temperature is open/short-circuited |
| 17987 | 0x4643 | FC | Malfunction of micro switch |
| 18484 | 0x4834 | H4 | System is abnormal |
| 18487 | 0x4837 | H7 | Desynchronizing of compressor |
| 18499 | 0x4843 | HC | PFC protection |
| 18501 | 0x4845 | HE | Demagnetization protection of compressor |
| 19014 | 0x4A46 | JF | Communication malfunction between indoor unit and inspection board |
| 19505 | 0x4C31 | L1 | Malfunction of humidity sensor |
| 19513 | 0x4C39 | L9 | High power protection |
| 19555 | 0x4C63 | Lc | Start-up failed |
| 19556 | 0x4C64 | Ld | Lost phase |
| 20533 | 0x5035 | P5 | Over-phase current protection of compressor |
| 28485 | 0x6F45 | oE | Undefined outdoor unit error |
| 20534 | 0x5036 | P6 | Communication malfunction between the drive board and the main board |
| 20535 | 0x5037 | P7 | Circuit malfunction of module temperature sensor |
| 20536 | 0x5038 | P8 | Module overheating protection |
| 20550 | 0x5046 | PF | Malfunction of ambient temperature sensor of drive board |
| 20552 | 0x5048 | PH | DC bus voltage is too high |
| 20556 | 0x504C | PL | DC bus voltage is too low |
| 20565 | 0x5055 | PU | Charging malfunction of capacitor |
| 29254 | 0x7246 | rF | Malfunction of RF module |
| 21809 | 0x5531 | U1 | Phase current detection circuit malfunction of compressor |
| 21810 | 0x5532 | U2 | Lost phase protection of compressor |
| 21811 | 0x5533 | U3 | DC bus voltage drop malfunction |
| 21813 | 0x5535 | U5 | Current detection malfunction of unit |
| 21815 | 0x5537 | U7 | 4-way valve is abnormal |
| 21816 | 0x5538 | U8 | Malfunction of zero-crossing signal of indoor unit |
| 21817 | 0x5539 | U9 | Zero-crossing malfunction of outdoor unit |
| 17714 | 0x4532 | E2 | Evaporator anti-freezing protection |
| 17721 | 0x4539 | E9 | Anti cold air protection |