

# Nice

Fan2-Control

## **Fan Coil Thermostat (2-pipe) a Z-Wave indoor temperature controller**

**EN** - Instructions and warnings for installation and use

## 1 WARNINGS AND GENERAL PRECAUTIONS

- **CAUTION!** – Read the instructions before starting up the unit!
- **CAUTION!** – This product is not a toy. Keep out of reach of children and animals!
- **CAUTION!** – Do not expose the device to moisture, water or other liquids. Do not place liquids near or on the device!
- **CAUTION!** – Do not attempt to disassemble, repair or modify the device yourself!
- **CAUTION!** – This product is for indoor use only. Do not use outdoors!
- **CAUTION!** – Flush-mount only into a UL/ETL/CE certified plastic junction box. The minimum size should be 65\*65\*45mm, minimum Volume is 190cm<sup>3</sup>. Use Copper Conductors Only.
- **CAUTION!** – Risk of Electric Shock - More than one disconnect switch may be required to de-energize the equipment before servicing.

## 2 PRODUCT SPECIFICATION

Fan2-Control Fan Coil Thermostat is a Z-Wave (800 series) enabled device for indoor temperature control. It is mainly applied to a 2-pipe Fan coil system. It can read room temperature, and automatically control fan speed based on the temperature difference. This product can be included and operated in any of Nice hubs equipped with Z-wave radio: Yubii Home, Yubii Home Pro or FIBARO Home Center 3 Lite and Home Center 3.

| Table A1 Specifications  |  |
|--------------------------|--|
| Power Supply             | AC85~260V, 50/60Hz   |
| Resistive Load:          | ≤3A  |
| Self Consumption:        | ≤1W  |
| Temperature Sensor:      | NTC 10K  |
| Temperature Range:       | 0~55°C   |
| Temperature Setting:     | 5-37°C (Adjustable)  |
| Humidity Range:          | <95% RH (Non-condensation)   |
| Dimension:               | 86* 86*14mm  |
| Hole Pitch:              | 60-65mm (60 or 86 Standard junction box)   |
| Z-Wave Frequency:        | Operating frequency range, defined by the regulatory bodies<br>(for Z-wave in Europe: 868.4 MHz, or other regions 908.4/916.0 MHz , 921.4 MHz) |
| Over Current Protection: | Required external 10A circuit breaker  |



### 3 INSTALLATION

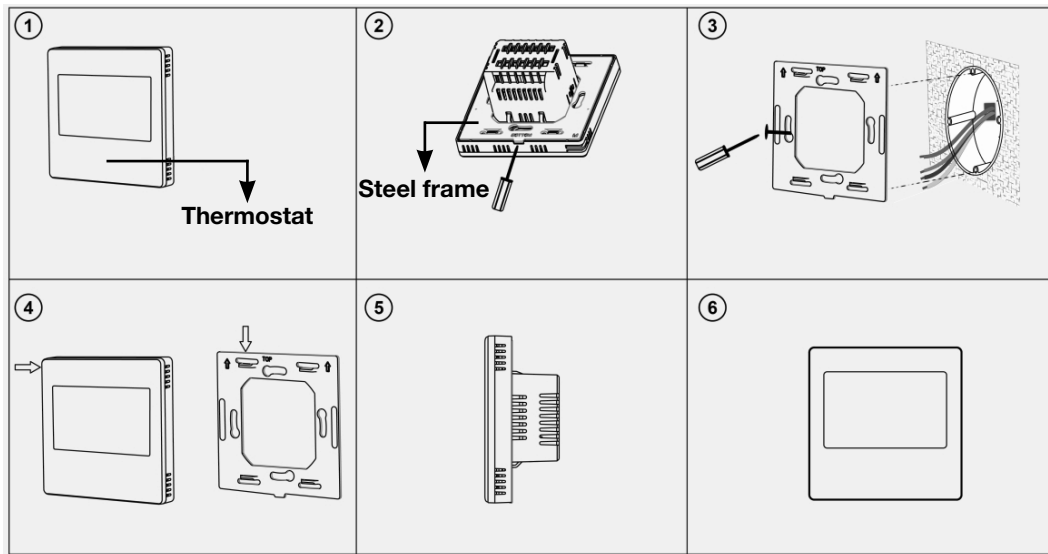
#### Location:

The device should be installed indoors, at around 1.5m height above the floor where the average room temperature can be measured correctly. It should be away from direct sunlight, cover, or any heat source to avoid wrong measurements.

#### Note:

- A qualified electrician with the understanding of wiring diagrams and knowledge of electrical safety should complete installation following the instructions.
- Before installation, please confirm the real voltage complying with the device's specification. Cut off any power supply to secure the safety of people and device.
- During installation, protect the device from any physical damage by dropping or bumping. If happens, please contact the supplier for maintenance.
- Keep the device away from acid-base and other corrosive solids, liquids, gases, to avoid damage.
- Read all instructions and documentation and save it for future reference.

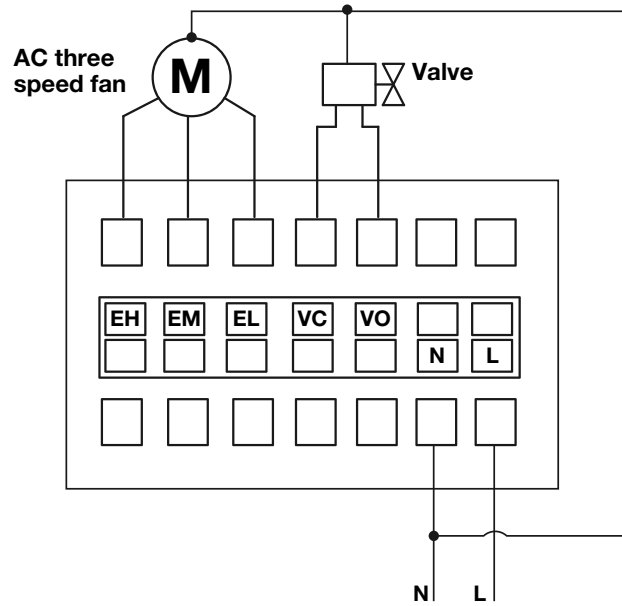
**⚠ CAUTION! - Cut off power supply at circuit breaker or fuse before installation to avoid fire, shock or death!**



1. Remove the steel frame from the Thermostat (see picture ②) and secure it onto the junction box with two screws (see picture ③)
2. Insert all wires into the right terminals (according to wiring diagram shown below) and tighten screws. The wiring diagram is shown below.
3. Attach the wired device on the points of the steel frame (as shown in picture ④) and then push the whole device into the junction box.
4. Confirm the device is firmly mounted, and power it on, then it is ready to operate.

## 4 WIRING DIAGRAM

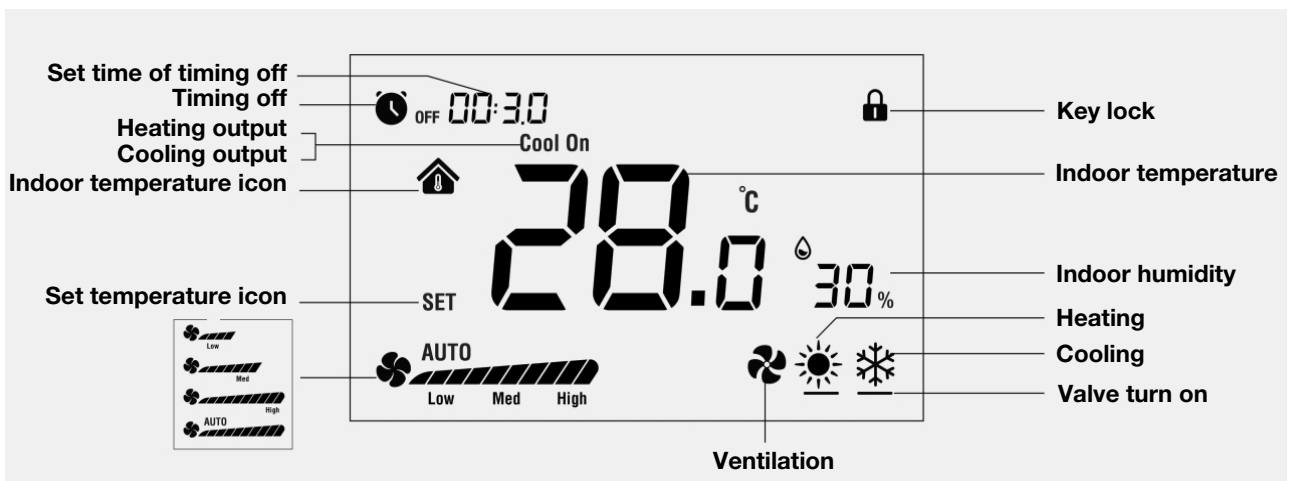
### 4.1 Fan2-Control wiring diagram








- EH** - terminal for fan motor high speed
- EM** - terminal for fan motor mid speed
- EL** - terminal for fan motor low speed
- VC** - terminal for normally closed valve
- VO** - terminal for normally open valve
- N** - terminal for neutral lead
- L** - terminal for live lead

## 5 BUTTONS AND DISPLAY

### 5.1 Fan2-Control display screen





### 5.2 Fan2-Control operational buttons





-  - On/Off button
-  - Fan speed change button
-  - Mode button
-  - Temperature change button, increase direction
-  - Temperature change button, decrease direction

## 6 MODES OF OPERATION

### 6.1 On/Off Setting



When the device is powered on, it will display "OFF", press  to enter working interface. When the device is on, press  to turn it off, then "OFF" will be displayed and all outputs will be turned off.


### 6.2 Timing Power Off

When the device is turned on, long press  and **M** for 3 seconds to enter timing setting interface, press  or  to adjust the setting value, then press **M** to save the setting and return to normal operation - the timing icon  OFF will be displayed on the screen. Setting range is 00:30-12:00 (in sequence), setting gap is half-hour, minimum unit is half an hour.

**Cancel timing power off:** turn Off/On the device manually or set the timer value to 00:00 to cancel timer off.


### 6.3 Panel Lock

To activate key lock long press  +  for 3 seconds to lock/unlock key.

This option is available is also available in Off mode. If key protection icon  appears on the screen, it indicates the keys are locked and all key operations are ignored. If it is not present, all key actions are available to operate.

**Note:** This function can be disabled by setting parameter E15 to Off position.

### 6.4 Fan Speed Setting

During normal operation, press  to switch among the available fan speeds: "Low, Medium, High, Auto".

**Note:** In Ventilation mode, no Auto speed choice.

#### Auto fan speed mode

Automatically changes the fan speed depending on the difference between the setpoint temperature and actual room temperature as shown in table A2 below.

**Note:** In Auto speed mode the fan is activated only when valve is opened.

### 6.5 Fan Automation





Table A2 Fan Automation

|              |   |
|--------------|---|
| Cooling Mode | a. Room temperature $\leq$ setting temperature, valve closes automatically, fan stops*;<br>b. Room temperature $\geq$ setting temperature +1°C, fan turned on in low speed;<br>c. Room temperature $\geq$ setting temperature +2°C, fan turned on in medium speed;<br>d. Room temperature $\geq$ setting temperature +3°C, fan turned on in high speed; |
| Heating Mode | a. Room temperature $\geq$ setting temperature, valve closes automatically, fan stops*;<br>b. Room temperature $\leq$ setting temperature -1°C, fan turned on in low speed;<br>c. Room temperature $\leq$ setting temperature -2°C, fan turned on in medium speed;<br>d. Room temperature $\leq$ setting temperature -3°C, fan turned on in high speed; |

\* unless parameter E13 is switched to ON position, then the fan keeps working in low speed.

**Note:** Fan will operate only if the valve opens.

### 6.6 Temperature Setting

During normal operation, press  or  to adjust the value of setpoint temperature, temperature by default ranges from 5 to 37 degrees, where difference between each key button press is 0.5°C. Press  to decrease the value of setpoint temperature or press  to increase the value of setpoint temperature then press **M** to confirm, or wait for 8 seconds without any operation, it will return to normal working interface and save the modification automatically.

### 6.7 Temperature Sensor Error

If temperature sensor does not work, "0.0 " displays, fan stops and valve closes automatically.

## 6.8 Working Mode Setting

Under normal working interface, press **M** to switch the working mode among ❄️ cooling → ☀️ heating → 🌀 ventilation in sequence.

## 6.9 Fan Manual Control

If fan speed is manually set, the device still auto controls the fan in such situation:

### 6.10 Cooling Mode:

Room temperature  $\leq$  setting temperature, valve closes and fan stops;

Room temperature  $\geq$  setting temperature +1°C, valve and fan opens.

### 6.11 Heating Mode:

Room temperature  $\geq$  setting temperature, valve closes and fan stops;

Room temperature  $\leq$  setting temperature -1°C, valve and fan opens.

### 6.12 Ventilation Mode:

Fan opens normally in accordance with the setting fan speed, valve is forced to close.

**Note:** The fan output has nothing to do with the setting temperature in ventilation mode  
In the Ventilation mode, auto fan speed mode functions are not available.

## 6.13 Manual fan speed mode

If fan speed is manually set, it can be overwritten in certain conditions to the fan stop:

### *Cooling Mode:*

When room temperature < setpoint temperature then valve closes and fan stops.

Later when Room temperature  $\geq$  setpoint temperature +1°C, then valve and fan starts (with the speed manually set).

### *Heating Mode:*

When room temperature > setpoint temperature then valve closes and fan stops.

Later when room temperature  $\leq$  setpoint temperature -1°C then valve and fan starts (with the speed manually set).

### *Ventilation Mode:*

Fan works in accordance with the set fan speed, valve is forced to close.

Note: The fan speed has nothing to do with the setpoint temperature in ventilation mode since auto mode is not available in ventilation mode.

## 7 PARAMETER MENU

When the device is turned off, long press **M** +  to enter Parameter Menu, input password 5138, changing the digits by pressing **V** or **^** and  to move between digits. Confirms PIN by pressing **M**

| Table A3 Parameters        |   |
|----------------------------|---|
| <b>Parameter:</b>          | <b>E01</b>  |
| <b>Description:</b>        | Restore to factory default.<br>Change to 55 to restore factory default settings.  |
| <b>Available settings:</b> | 0~99  |
| <b>Default setting:</b>    | <b>53</b>   |
| <b>Parameter:</b>          | <b>E02</b>  |
| <b>Description:</b>        | Restore state after power failure.<br>This parameter determines, if the device will return to state prior to the power failure after power is restored.   |
| <b>Available settings:</b> | 0 - device does not return to previous mode and stays switched off.<br>1 - device returns to previous mode and stays switched on<br>2 - device returns to the last mode (Off/Heating/Cooling/Ventilation)   |
| <b>Default setting:</b>    | <b>01</b>   |
| <b>Parameter:</b>          | <b>E03</b>  |
| <b>Description:</b>        | Backlight brightness.<br>1 - backlight is off on dimmed display after specific time of no key action<br>2 - low brightness and dimmed display after specific time of no key action<br>3 - medium brightness and dimmed display after specific time of no key action<br>4 - high brightness and dimmed display after specific time of no key action<br>5 - display always on |
| <b>Available settings:</b> | 1 ~5  |
| <b>Default setting:</b>    | <b>2</b>  |
| <b>Parameter:</b>          | <b>E04</b>  |
| <b>Description:</b>        | Beep volume.<br>1: OFF<br>2: Low Beep<br>3: Medium Beep<br>4: High Beep<br>5: Standard Beep   |
| <b>Available settings:</b> | 1~5   |
| <b>Default setting:</b>    | <b>5</b>  |
| <b>Parameter:</b>          | <b>E05</b>  |
| <b>Description:</b>        | Communicate address.  |
| <b>Available settings:</b> | 1~64  |
| <b>Default setting:</b>    | <b>01</b>   |
| <b>Parameter:</b>          | <b>E06</b>  |
| <b>Description:</b>        | Temp. upper limit.  |
| <b>Available settings:</b> | 0.0°C~55.0°C  |
| <b>Default setting:</b>    | <b>37.0°C</b>   |
| <b>Parameter:</b>          | <b>E07</b>  |
| <b>Description:</b>        | Temp. lower limit.  |
| <b>Available settings:</b> | 0.0°C~55.0°C  |
| <b>Default setting:</b>    | <b>05.0°C</b>   |

|                            |                           |
|----------------------------|---------------------------|
| <b>Parameter:</b>          | <b>E08</b>                |
| <b>Description:</b>        | Indoor temp. calibration. |
| <b>Available settings:</b> | -9.0~+9.0                 |
| <b>Default setting:</b>    | <b>0.0</b>                |

|                            |                              |
|----------------------------|------------------------------|
| <b>Parameter:</b>          | <b>E09</b>                   |
| <b>Description:</b>        | Indoor humidity calibration. |
| <b>Available settings:</b> | -20~+20                      |
| <b>Default setting:</b>    | <b>00</b>                    |

|                            |                            |
|----------------------------|----------------------------|
| <b>Parameter:</b>          | <b>E10</b>                 |
| <b>Description:</b>        | Externaltemp. calibration. |
| <b>Available settings:</b> | -9.0~+9.0                  |
| <b>Default setting:</b>    | <b>0.0</b>                 |

|                            |  |
|----------------------------|--|
| <b>Parameter:</b>          | <b>E11</b>   |
| <b>Description:</b>        | Function option of external temp. sensor.<br>0: External temperature sensor work as high temperature protection detection<br>1: External temperature sensor work as main control temperature |
| <b>Available settings:</b> | 0~1  |
| <b>Default setting:</b>    | <b>0</b>   |

|                            |  |
|----------------------------|--|
| <b>Parameter:</b>          | <b>E12</b>   |
| <b>Description:</b>        | Anti-Freeze protection switch.<br>ON: Turn on<br>OFF: Turn off<br>Default protection temperature range: (5.0°C - 8.0°C)<br>Anti-Freeze feature is available only when heating mode,<br>turn on when temperature decrease to 5.0°C, turn off when temperature increase to 8.0°C |
| <b>Available settings:</b> | ON / OFF   |
| <b>Default setting:</b>    | <b>OFF</b>   |

|                            |   |
|----------------------------|---|
| <b>Parameter:</b>          | <b>E13</b>  |
| <b>Description:</b>        | Fan mode option when indoor temperature reaches to setting temp.<br>ON: fan keep low speed<br>OFF: fan turned off |
| <b>Available settings:</b> | ON/OFF  |
| <b>Default setting:</b>    | <b>OFF</b>  |

|                            |  |
|----------------------------|--|
| <b>Parameter:</b>          | <b>E14</b>   |
| <b>Description:</b>        | Fan working mode.<br>0: Fan works both for cooling and heating mode<br>1: Fan works only in cooling mode<br>2: Fan works only in heating mode<br>3: Fan not work neither in cooling nor heating mode |
| <b>Available settings:</b> | 0~3  |
| <b>Default setting:</b>    | <b>0</b>   |



|                            |  |
|----------------------------|--|
| <b>Parameter:</b>          | <b>E15</b>                                       |
| <b>Description:</b>        | Panel lock function.<br>ON: turn on OF: turn off |
| <b>Available settings:</b> | ON/OFF   |
| <b>Default setting:</b>    | <b>ON</b>  |

|                            |  |
|----------------------------|--|
| <b>Parameter:</b>          | <b>E17</b>   |
| <b>Description:</b>        | Option for interval ventilation feature.<br>ON: turn on OF: turn off |
| <b>Available settings:</b> | ON/OFF   |
| <b>Default setting:</b>    | <b>OFF</b>   |

|                            |  |
|----------------------------|--|
| <b>Parameter:</b>          | <b>E18</b>   |
| <b>Description:</b>        | Duration for interval ventilation.<br>Duration for interval ventilation within 1 hour unit: minute |
| <b>Available settings:</b> | 1~30 (min)   |
| <b>Default setting:</b>    | <b>02 (min)</b>  |



|                            |                    |
|----------------------------|--------------------|
| <b>Parameter:</b>          | <b>E19</b>         |
| <b>Description:</b>        | Temp.deadband.     |
| <b>Available settings:</b> | 0 - 9.9            |
| <b>Default setting:</b>    | <b>1.0°C/2.0 F</b> |

|                            |  |
|----------------------------|--|
| <b>Parameter:</b>          | <b>E20</b>                             |
| <b>Description:</b>        | Temp.unit.<br>0: Celsius 1: Fahrenheit |
| <b>Available settings:</b> | 0 ~ 1                                  |
| <b>Default setting:</b>    | <b>0</b>                               |

## 8 ADDING / REMOVING FAN2-CONTROL FROM Z-WAVE NETWORK

This section describes how to add and remove Fan2-Control from Yubii Home gateway. There are 2 possible ways to make it.

### 8.1 Adding device using the manual method

1. Set the Yubii Home into add mode (see the Yubii Home manual).
2. In the home page, long press  +  synchronously for 3 sec, Fan2-Control enters into adding mode displaying product "--" on the interface.

**Note:**

If there is number displayed it means that device has been already added to the network. In case of re-adding please follow the procedure of removing the device from the network first (described below) or restore the device to factory defaults.



3. Press **M** to include the device into Z-Wave network, if the inclusion is successful, it will show node number in the Z-wave network.

### 8.2 Adding device using the SmartStart method

To add Fan2-Control to the Z-Wave network using SmartStart:

1. Scan the DSK QR code or input the underlined 5-digit PIN code (label on the side of the box and on the device).
2. Power the device (turn on the mains voltage).
3. Successful adding will be confirmed by the Z-Wave indicator on the display.

### 8.3 Removing device from Yubii Home

1. Set the Yubii Home into exclusion mode (see the Yubii Home manual).
2. Long press  +  synchronously for 3 sec, Fan2-Control enters into removing mode displaying existing product ID on the interface. Please note that if a device has been added to the gateway It should be displaying number different from "--".
3. Press **M** to exclude the device from Z-Wave network, if the exclusion is successful, it will show 000 in the interface.

**Table A4 Association group**

| AG Identifier   | Max Node ID | Command Class   | Trigger Situation  |
|---|-------------|---|--|
| 0x01  | 1           | COMMAND_CLASS_SENSOR_MULTILEVEL_VS,SENSOR_MULTILEVEL_REPORT_VS              | 1. When the temp. unit is celsius: the parameter 2 set to 1, detected temperature change is greater than the value set by parameter 3.   |
|   |             |   | 2. When the temp. unit is fahrenheit: the parameter 2 set to 1, detected temperature change is greater than the value set by parameter 4.  |
|   |             |   | 3. The parameter 2 set to 2, when the report is that the interval time is greater than the value set by parameter 5.   |
|   |             |   | 4. When the temp. unit is celsius: the parameter 2 set to 3, the detected temperature change is greater than the value set by parameter 3 or the reported time is greater than the value set by parameter 5. |
| 5. When the temp. unit is fahrenheit: the parameter 2 set to 3, the detected temperature change is greater than the value set by parameter 4 or the reported time is greater than the value set by parameter 5. |             |   |  |
|   |             | COMMAND_CLASS_THERMOSTAT_MODE_V2,THERMOSTAT_MODE_REPORT                     | Device Mode changes  |
|   |             | COMMAND_CLASS_THERMOSTAT_OPERATING_STATE, THERMOSTAT_OPERATING_STATE_REPORT | Device Status changes  |

**Table A5 Association group**

| AG Identifier | Max Node ID | Command Class  | Trigger Situation           |
|---------------|-------------|--|-----------------------------|
| 0x01          | 1           | COMMAND_CLASS_THERMOSTAT_SETPOINT_V2,THERMOSTAT_SETPOINT_REPORT_V2   | Set point value changes     |
|               |             | COMMAND_CLASS_THERMOSTAT_FAN_MODE,THERMOSTAT_FAN_MODE_REPORT         | Fan mode changes            |
|               |             | COMMAND_CLASS_THERMOSTAT_FAN_STATE,THERMOSTAT_FAN_STATE_REPORT       | Fan status changes          |
|               |             | COMMAND_CLASS_DEVICE_RESET_LOCALLY,DEVICE_RESET_LOCALLY_NOTIFICATION | Restore the factory setting |

# 10 SUPPORTED Z-WAVE COMMAND CLASSES

**Table A6 Command Class supported by the device**

**S2 Support**

|  |
|--|
| COMMAND_CLASS_VERSION                      |
| COMMAND_CLASS_MANUFACTURER_SPECIFIC        |
| COMMAND_CLASS_DEVICE_RESET_LOCALLY         |
| COMMAND_CLASS_POWERLEVEL                   |
| COMMAND_CLASS_SENSOR_MULTILEVEL_V5         |
| COMMAND_CLASS_THERMOSTAT_SETPOINT,         |
| COMMAND_CLASS_THERMOSTAT_MODE              |
| COMMAND_CLASS_THERMOSTAT_OPERATING_STATE   |
| COMMAND_CLASS_THERMOSTAT_FAN_MODE          |
| COMMAND_CLASS_THERMOSTAT_FAN_STATE         |
| COMMAND_CLASS_CONFIGURATION                |
| COMMAND_CLASS_ASSOCIATION_V2               |
| COMMAND_CLASS_MULTI_CHANNEL_ASSOCIATION_V2 |
| COMMAND_CLASS_ASSOCIATION_GRP_INFO         |
| COMMAND_CLASS_FIRMWARE_UPDATE_MD_V5        |

**S2 No Support**

|                                     |
|-------------------------------------|
| COMMAND_CLASS_ZWAVEPLUS_INFO,       |
| COMMAND_CLASS_TRANSPORT_SERVICE_V2, |
| COMMAND_CLASS_SECURITY_2,           |
| COMMAND_CLASS_SUPERVISION           |

| Table A7 Z-Wave parameter setting |  |                 |                 |
|-----------------------------------|--|-----------------|-----------------|
| <b>Parameter:</b>                 | <b>1. Parameter Menu No. E20 Temp. Unit</b>  |                 |                 |
| <b>Description:</b>               | 0: Celsius<br>1: Fahrenheit  |                 |                 |
| <b>Available settings:</b>        | 0-1  |                 |                 |
| <b>Default setting:</b>           | <b>1</b>   | Parameter size: | <b>1</b> [byte] |
| <b>Parameter:</b>                 | <b>2. Automatic Temperature Value Reporting (Celsius)</b>  |                 |                 |
| <b>Description:</b>               | Unit 0.1<br>0: OFF;<br>3-255: n *0.1, automatically report to gateway when temperature variation greater than this value.  |                 |                 |
| <b>Available settings:</b>        | 0,3-255  |                 |                 |
| <b>Default setting:</b>           | <b>5</b>   | Parameter size: | <b>2</b> [byte] |
| <b>Parameter:</b>                 | <b>2. Automatic Temperature Value Reporting (Celsius)</b>  |                 |                 |
| <b>Description:</b>               | Unit 0.1 F:<br>0: OFF;<br>3-255: n *0.1F, automatically report to gateway when temperature variation greater than this value.  |                 |                 |
| <b>Available settings:</b>        | 0,3-255  |                 |                 |
| <b>Default setting:</b>           | <b>10</b>  | Parameter size: | <b>2</b> [byte] |
| <b>Parameter:</b>                 | <b>3. Automatic Humidity Value Reporting</b>   |                 |                 |
| <b>Description:</b>               | 0: OFF<br>1-99: Automatically report to gateway when humidity variation greater than this value.   |                 |                 |
| <b>Available settings:</b>        | 0-99   |                 |                 |
| <b>Default setting:</b>           | <b>6</b>   | Parameter size: | <b>1</b> [byte] |
| <b>Parameter:</b>                 | <b>12. Parameter Menu No. E02: Power Failure Memory</b>  |                 |                 |
| <b>Description:</b>               | When power on again:<br>0: device will be in shutdown state ("OFF");<br>1: device will be in working interface;<br>2: device will stay the last status before power failure. |                 |                 |
| <b>Available settings:</b>        | 0-2  |                 |                 |
| <b>Default setting:</b>           | <b>1</b>   | Parameter size: | <b>1</b> [byte] |
| <b>Parameter:</b>                 | <b>13. Parameter Menu No. E03: Backlight Brightness</b>  |                 |                 |
| <b>Description:</b>               | 1: dim, dim without key touch<br>2: Low brightness<br>3: Medium brightness<br>4: High brightness<br>5: Always on   |                 |                 |
| <b>Available settings:</b>        | 1-5  |                 |                 |
| <b>Default setting:</b>           | <b>2</b>   | Parameter size: | <b>1</b> [byte] |
| <b>Parameter:</b>                 | <b>14. Parameter Menu No. E04: Beep</b>  |                 |                 |
| <b>Description:</b>               | 1: OFF2 Low Beep<br>3: Medium Beep<br>4: High Beep<br>5: Standard Beep   |                 |                 |
| <b>Available settings:</b>        |  |                 |                 |
| <b>Default setting:</b>           | <b>0</b>   | Parameter size: | <b>1</b> [byte] |

|                            |   |                 |                 |
|----------------------------|---|-----------------|-----------------|
| <b>Parameter:</b>          | <b>16. Parameter Menu No. E06: Temp. Upper limit/ Set upper</b> |                 |                 |
| <b>Description:</b>        | Upper limit always > lower limit                                |                 |                 |
| <b>Available settings:</b> | 1-99  |                 |                 |
| <b>Default setting:</b>    | <b>37 (Celsius)</b>   | Parameter size: | <b>1 [byte]</b> |

|                            |   |                 |                 |
|----------------------------|---|-----------------|-----------------|
| <b>Parameter:</b>          | <b>16. Parameter Menu No. E06: Temp. Upper limit/ Set upper</b> |                 |                 |
| <b>Description:</b>        | Upper limit always > lower limit                                |                 |                 |
| <b>Available settings:</b> | 1-99  |                 |                 |
| <b>Default setting:</b>    | <b>98 (Fahrenheit)</b>  | Parameter size: | <b>1 [byte]</b> |

|                            |  |                 |                 |
|----------------------------|--|-----------------|-----------------|
| <b>Parameter:</b>          | <b>17. Parameter Menu No. E07: Temp. Lower limit/Set lower</b> |                 |                 |
| <b>Description:</b>        | Upper limit always > lower limit                               |                 |                 |
| <b>Available settings:</b> | 0-98   |                 |                 |
| <b>Default setting:</b>    | <b>5 (Celsius)</b>   | Parameter size: | <b>1 [byte]</b> |

|                            |  |                 |                 |
|----------------------------|--|-----------------|-----------------|
| <b>Parameter:</b>          | <b>17. Parameter Menu No. E07: Temp. Lower limit/Set lower</b> |                 |                 |
| <b>Description:</b>        | Upper limit always > lower limit                               |                 |                 |
| <b>Available settings:</b> | 0-98   |                 |                 |
| <b>Default setting:</b>    | <b>41 (Fahrenheit)</b>   | Parameter size: | <b>1 [byte]</b> |

|                            |   |                 |                 |
|----------------------------|---|-----------------|-----------------|
| <b>Parameter:</b>          | <b>18. Parameter Menu No. E08: Indoor temp. calibration</b>     |                 |                 |
| <b>Description:</b>        | Temperature Calibration Value (°C or °F), accuracy 0.1 (n *0.1) |                 |                 |
| <b>Available settings:</b> | (-99~+99) (Celsius)   |                 |                 |
| <b>Default setting:</b>    | <b>0</b>  | Parameter size: | <b>1 [byte]</b> |

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| <b>Parameter:</b>          | <b>18. Parameter Menu No. E08: Indoor temp. calibration</b>     |                 |                 |
| <b>Description:</b>        | Temperature Calibration Value (°C or °F), accuracy 0.1 (n *0.1) |                 |                 |
| <b>Available settings:</b> | (-99~+99) (Fahrenheit)  |                 |                 |
| <b>Default setting:</b>    | <b>0</b>  | Parameter size: | <b>1 [byte]</b> |

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| <b>Parameter:</b>          | <b>19. Parameter Menu No. E09: Indoor humidity calibration</b> |                 |                 |
| <b>Description:</b>        | Humidity calibration value                                     |                 |                 |
| <b>Available settings:</b> | -20~+20  |                 |                 |
| <b>Default setting:</b>    | <b>0</b>   | Parameter size: | <b>1 [byte]</b> |

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| <b>Parameter:</b>          | <b>20. Parameter Menu No. E10: External temp. calibration</b>  |                 |                 |
| <b>Description:</b>        | Temperature Calibration Value (°C or °F) accuracy 0.1 (n *0.1) |                 |                 |
| <b>Available settings:</b> | (-99~+99) (Celsius)  |                 |                 |
| <b>Default setting:</b>    | <b>0</b>   | Parameter size: | <b>1 [byte]</b> |

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| <b>Parameter:</b>          | <b>20. Parameter Menu No. E10: External temp. calibration</b>  |                 |                 |
| <b>Description:</b>        | Temperature Calibration Value (°C or °F) accuracy 0.1 (n *0.1) |                 |                 |
| <b>Available settings:</b> | (-99~+99) (Fahrenheit)   |                 |                 |
| <b>Default setting:</b>    | <b>0</b>   | Parameter size: | <b>1 [byte]</b> |

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| <b>Parameter:</b>          | <b>21. Parameter Menu No. E11: Function option for external temperature sensor</b>  |                 |                 |
| <b>Description:</b>        | 0: External temperature sensor work as high temperature protection detection<br>1: External temperature sensor work as main control temperature |                 |                 |
| <b>Available settings:</b> | 0-1   |                 |                 |
| <b>Default setting:</b>    | <b>0</b>  | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>22. Parameter Menu No. E12: Switch for anti-freeze protection</b>  |                 |                 |
| <b>Description:</b>        | 1: Turn on<br>0: Turn off<br>Default protection temperature range: (5.0°C - 8.0°C)<br>Anti-Freeze feature is available only when heating mode, turn on when temperature decrease to 5.0 °C, turn off when temperature increase to 8.0°C |                 |                 |
| <b>Available settings:</b> | 0-1   |                 |                 |
| <b>Default setting:</b>    | <b>0</b>  | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>23. Parameter Menu No. E13: Fan mode option when indoor temp. reaches to setting temp</b>                   |                 |                 |
| <b>Description:</b>        | 1: Manual fan speed, keep fan speed, valve turned off, Auto fan speed, keep low fan speed<br>0: Fan turned off |                 |                 |
| <b>Available settings:</b> | 0-1  |                 |                 |
| <b>Default setting:</b>    | <b>0</b>   | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>24. Parameter Menu No. E14:Fan working mode</b>  |                 |                 |
| <b>Description:</b>        | 0: Fan works both for cooling and heating mode<br>1: Fan works only in cooling mode<br>2: Fan works only in heating mode<br>3: Fan not work neither in cooling nor heating mode |                 |                 |
| <b>Available settings:</b> | 0-3   |                 |                 |
| <b>Default setting:</b>    | <b>0</b>  | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>25. Parameter Menu No. E15: Panel lock function</b> |                 |                 |
| <b>Description:</b>        | 1:Turn on<br>0:Turn off                                |                 |                 |
| <b>Available settings:</b> | 0-1  |                 |                 |
| <b>Default setting:</b>    | <b>1</b>   | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>26. Reserve</b> |                 |                 |
| <b>Description:</b>        |                    |                 |                 |
| <b>Available settings:</b> |                    |                 |                 |
| <b>Default setting:</b>    |                    | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>27. Parameter Menu No. E17: Option for interval ventilation feature</b> |                 |                 |
| <b>Description:</b>        | 1:Turn on<br>0:Turn off  |                 |                 |
| <b>Available settings:</b> | 0-1  |                 |                 |
| <b>Default setting:</b>    | <b>0</b>   | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>28. Parameter Menu No. E18: Duration for interval ventilation</b> |                 |                 |
| <b>Description:</b>        | Duration for interval ventilation within 1 hour, unit: minute        |                 |                 |
| <b>Available settings:</b> | 1-30   |                 |                 |
| <b>Default setting:</b>    | <b>5</b>   | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>29. Parameter Menu No. E19: Temp. Deadband</b> |                 |                 |
| <b>Description:</b>        | Temperature deadband (°C or °F), accuracy: n* 0.1 |                 |                 |
| <b>Available settings:</b> | 0-99 (Celsius)                                    |                 |                 |
| <b>Default setting:</b>    | <b>15 (Celsius)</b>                               | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>29. Parameter Menu No. E19: Temp. Deadband</b> |                 |                 |
| <b>Description:</b>        | Temperature deadband (°C or °F), accuracy: n* 0.1 |                 |                 |
| <b>Available settings:</b> | 0-99 (Celsius)                                    |                 |                 |
| <b>Default setting:</b>    | <b>30 (Fahrenheit)</b>                            | Parameter size: | <b>1</b> [byte] |

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| <b>Parameter:</b>          | <b>255. Parameter Menu No. E01 Factory Restore</b>   |                 |                 |
| <b>Description:</b>        | 55:write 55 to restore factory setting and turn to shut down interface<br>Other Value: invalid |                 |                 |
| <b>Available settings:</b> | 0-99   |                 |                 |
| <b>Default setting:</b>    | <b>53</b>  | Parameter size: | <b>1</b> [byte] |



## 12 WARRANTY

We warrant this product to be free from defects in material and workmanship under normal and proper use for one year from purchase date of the original purchaser. We will, at its option, either repair or replace any part of its products that prove defective by reason of improper workmanship or materials. THIS LIMITED WARRANTY DOES NOT COVER ANY DAMAGE TO THIS PRODUCT THAT RESULTS FROM IMPROPER INSTALLATION, ACCIDENT, ABUSE, MISUSE, NATURAL DISASTER, INSUFFICIENT OR EXCESSIVE ELECTRICAL SUPPLY, ABNORMAL MECHANICAL OR ENVIRONMENTAL CONDITIONS, OR ANY UNAUTHORIZED DISASSEMBLY, REPAIR OR MODIFICATION. This limited warranty shall not apply if: (i) the product was not used in accordance with any accompanying instructions, or (ii) the product was not used for its intended function. This limited warranty also does not apply to any product on which the original identification information has been altered, obliterated or removed, that has not been handled or packaged correctly, that has been sold as second-hand or that has been resold contrary to Country and other applicable export regulations.

## 13 PRODUCT DISPOSAL

The device marked with this symbol should not be disposed of with household waste. It is the user's responsibility to deliver the used appliance to a designated recycling point.



## 14 DECLARATION OF CONFORMITY



Hereby, NICE S.p.A., declares that the radio equipment Fan2-Control is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: <http://www.niceforyou.com/en/supports> under the "support" and "download" sections.

## 15 Z-WAVE COMPLIANCE



The thermostat is a fully compatible Z-Wave Plus V2 device.



**Nice SpA**  
Oderzo TV Italia  
info@niceforyou.com

[www.niceforyou.com](http://www.niceforyou.com)