

## Controller with thermostat HMI CURTAIN User Guide



### Welcome

Thank you for buying the product! Your new controller will provide years of reliable service. Using this digital device will provide more uniform comfort through the seasons. Please read this manual for complete instructions on installing and operating your device. If you require further assistance, please feel free to contact directly with Reventon Group Sp. z o.o.

### In the box you will find

- controller with thermostat HMI CURTAIN
- user guide
- screws (2 pieces)

### Service

We offer the warranty of 24 months from the sales day. Please become acquainted with the Warranty Terms on the website <http://www.reventongroup.eu/en/complaints>.

### Technical data

Temp. range: 5 - 35°C Accuracy:  $\pm 0.5^\circ\text{C}$   
Timing error: <1% Power consumption: < 1.5 W  
Power supply: 95 ~ 240 VAC, 50 ~ 60 Hz  
Maximal current load:

- fan: 5 A (inductive)
- valve actuator: 3 A

Shell material: PC (fireproof)

Dimensions: 86 x 86 x 13,3 mm

Installation box: 86 x 86 mm lub  $\varnothing$  60 mm

Ambient temperature:  $t = 0 - 45^\circ\text{C}$ ,  $\varphi = 5-95\%$

Storage temperature:  $-5 - 55^\circ\text{C}$

RS485/Modbus RTU communication

Baudrate: 9600 bps

Degree of protection (housing): IP 20

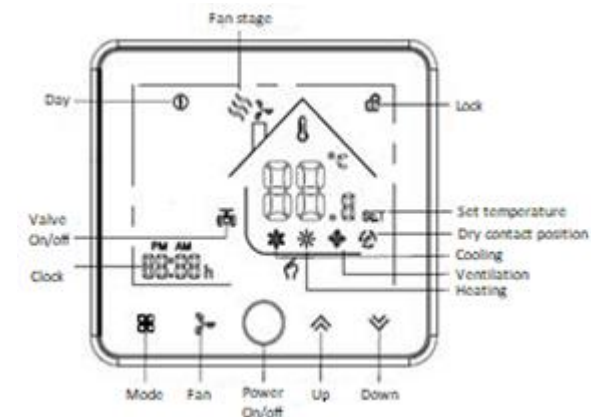
### About device

The controller with thermostat HMI CURTAIN is designed to control the operation of the air curtain by switching ON / OFF its fans and valves. This controlling can be realised depending on limit sensor position (using dry contact) or difference between set and room temperatures. It can work in heating, cooling or ventilation mode. The item is microprocessor based device with LCD display.

### Features of the controller

- Modern design similar as a cell phone
- Beautiful Frame CHROME creates elegant life
- Acrylic lenses to avoid the finger scratch
- Touch Button makes simple operation
- Large screen display with backlight is easy to read - even in the dark
- Dry contact for door sensor
- One-touch temp control overrides program schedule
- Internal and external sensor selectable is suitable for any place
- Data memory when power is off
- Easy installation
- 86 x 86 mm hidden box and european 60 mm round box is available

### Home screen quick reference



### Operation

#### 1. Setting the temperature

Press  $\uparrow$  or  $\downarrow$  to set temperature.


#### 2. Setting lock

Press and hold  $\uparrow$  and  $\downarrow$  for 5 sec. to lock the screen.


The icon  will display on the screen.

Press and hold  $\uparrow$  and  $\downarrow$  again for 5 sec. to unlock the screen.


#### 3. Setting the fan

Press  to select the fan speed OFF, HIGH, MED, LOW.




#### 4. Setting the system mode

Press  to change the system mode COOLING, HEATING and VENTILATION. In the mode of VENTILATION, the valve is off but the fan runs.

#### 5. Set clock and day

Press and hold  till subsequent minutes / hours / days starts to flash and then define time and data and with  $\uparrow$  and  $\downarrow$ .

#### 6. Setting functions and options

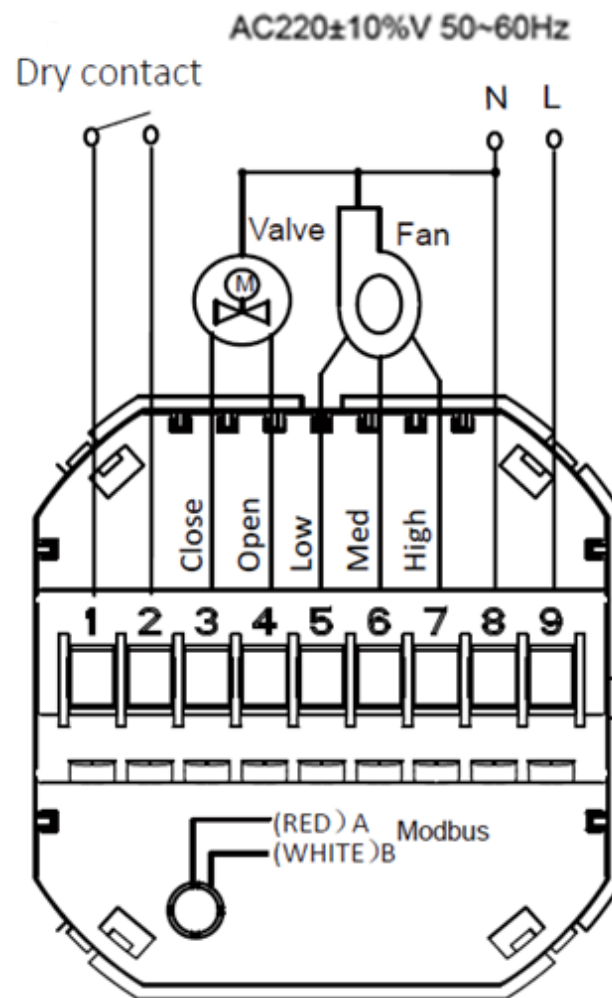
During power off, press and hold  and  at the same time for 5 sec. to go to system functions. Then press  to change the different items. Press  $\uparrow$  or  $\downarrow$  to set the relative values according to the table.

No.	Function	Settings & Options	Default
1	Temp. calibration	-9 - 9°C	-2°C
2	Fan control	00: When room temp. reaches the setpoint, the fan will turn off 01: When room temp. reaches the setpoint, the fan will turn to the set speed	00
3	Lock	00: All buttons are locked except POWER 01: All buttons are locked	01
4	Heating / Cooling	00: Cooling only 01: Heating / Cooling 02: Heating only	01
5	Min. set. temp.	5 - 15°C	5°C
6	Max. set. temp.	15 - 35°C	35°C
7	12 / 24 Clock	00: 12 h; 01: 24 h	01
8	Display mode	00: Display both set temp. and room temp. 01: Display set temp. only	00
9	Dead zone	1-5°C	1°C
A	Modbus IP address	0X00-0XFF	01
B	baudrate	01: 9600; 02: 19200; 03: 38400; 04: 56000; 05: 115200	1
C	Working mode	0: Thermostatic mode 1: Dry contact mode	0

The controller HMI CURTAIN can work in one of two modes:

- **thermostatic mode** - the device is switched on / off if the room temperature falls below the temperature set on the controller (or rises above this temperature if the controller is in cooling mode)
- **dry contact mode** - allows the operation of the device in dependence to the door sensor connected to the dry contact; when the dry contact is closed (i. e. closed door in case of NC door sensor), the curtain remains off and the valve is closed; when the dry contact is open (i. e. door is opened for NC door sensor), the curtain fans are switched on and the connected valve opens

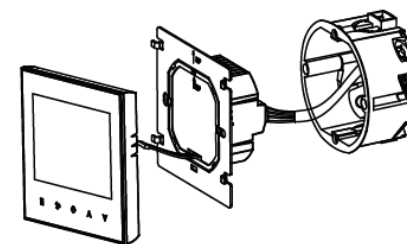
## Wiring diagram



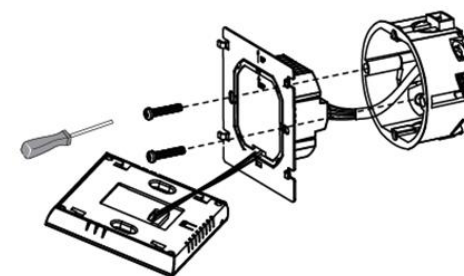
## Installing

This product is suitable for box 86 x 86 mm or Ø 60 mm.

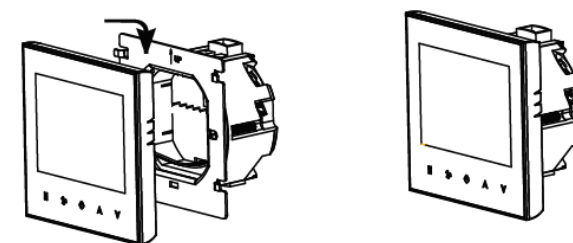
1. Connect the wire of power and other equipment into the terminals.



2. Fix the wall plate into the wall box by a screwdriver.



3. Connect the LCD board into the wall plate.



**WARNING:** Please arrange the professional technician to install this product according to installation drawing and instruction.

**RISK OF ELECTRICAL SHOCK:** Disconnect power supply before making electrical connection. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury or death.