Application

Modbus   is used to control the room temp. in Heating or Cooling systems. Typically applications include:
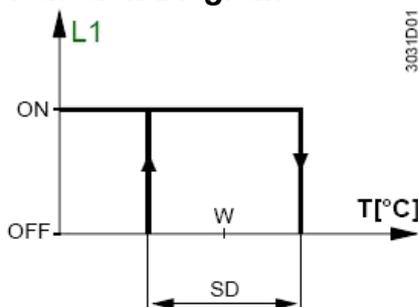
☞　　Homes
☞　　Residential buildings
☞　　Schools
☞　　Offices

It is able to control following equipments or device:

☞　　Zone Valves
☞　　Fans
☞　　Pumps
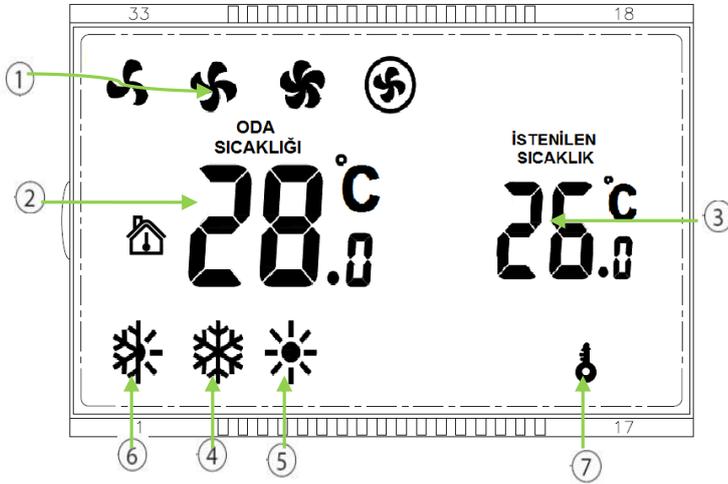☞　　Compressor

Specification

※ *Function Diagram*

T	Room Thermostat
SD	Switching differential (1K)
W	Room temperature setpoint
L1	Output Signal for Heating

※ *General Information*

Housing Material　　　ABS & Acrylic
Power Supply:　　　　　AC220V, 50/60 Hz Vac, 50/60Hz
Power Consumption　<1.5W　　　　　Current Load:　　　　　<7 A
Setpoint Range: 5-40℃　　　　　　Ambient Temp. Range:　0~50℃
Accuracy/Tolerance:+/-1℃　　　　　Timing: <1%
Thermistor :　　10K Ω@25 ℃　　　Humidity:< 90% r.h
Storage Conditions Temp. -10~60 ℃　　.
EEPROM　　　　　it remain the status and settings in case of system electric power is cut off suddenly.

※   *Display Icons & Buttons*

Display

Display

1. Fan Speed: Low, Med, High and Auto	2. Room Temperature
3. Set Temp Display	4. Cooling Mode
5. Heating Mode	6. Auto Mode (Heating/Cooling Switchover automatically)
7. Buttons Lock	

Buttons

Buttons

8. *Mode*: 1) Push shortly to select Cooling Mode, Heating Mode and Auto Mode

9. Temp Up(or Parameters setting)

10.Fan: Push shortly to select fan speed from Low, Med, High to Auto

11.Temp Down (or Parameters setting)

12. Power On/off

Error

Alarm will appear if there is error with internal or external.

E0   Internal Sensor

Parameters setting

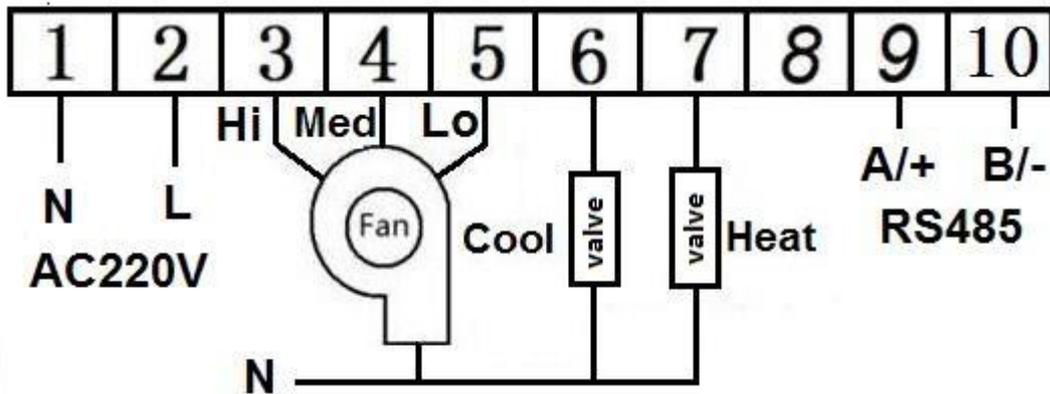※In case of the thermostat is switch off, please press and hold   **MODE& FAN** buttons for 3 seconds

Code	Parameters	Operated by + / - button
1	Temp Calibration	-9℃~+9℃
2	Fan Status	C1: Fan stops running when the room temp is equal to setpoint
		C2:Fan keeps running when the room temp is equal to setpoint
3	Deadband for Automatic Heating and Cooling	0~5.0 ℃
4	Modbus ID setting	1~247(01~F7)

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※Button Lock/Unlock

Push and hold **+** and **-** buttons simultaneously for 5 sec to LOCK all buttons
Push and hold **+** and **-** buttons simultaneously for 5 sec to UNLOCK all buttons
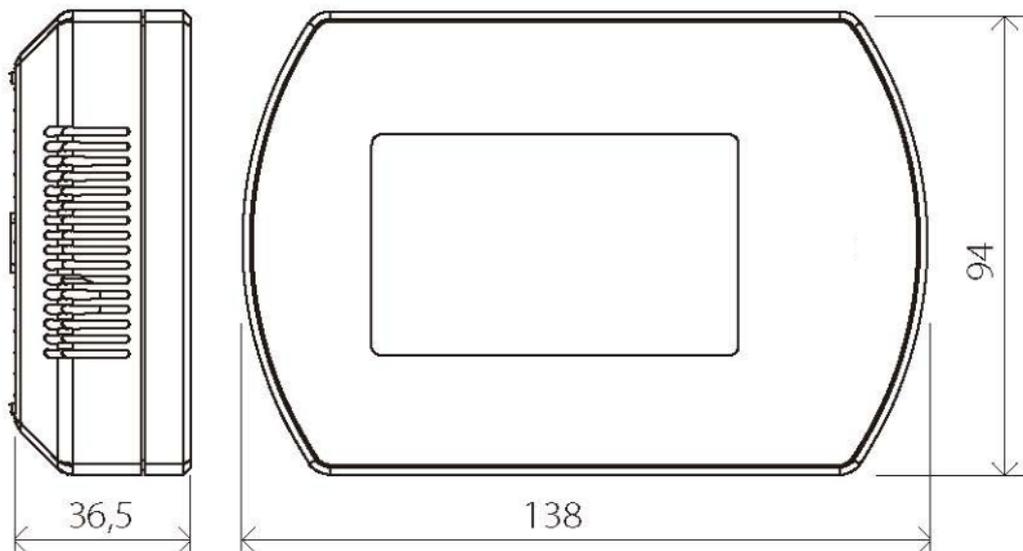
Wiring Diagram

WARNING: 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.

Color & Dimensions

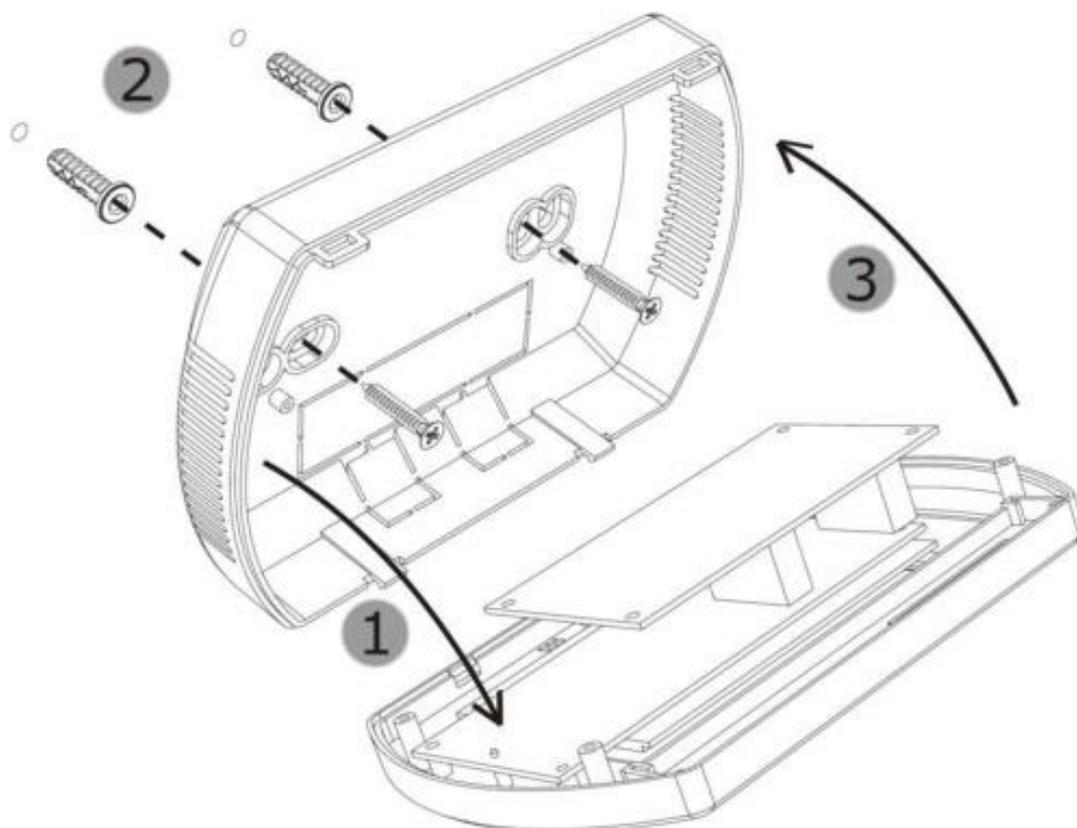※   *Housing:* white is defaulted, customized colors can be negotiated
※   *LCD Display:* Blue backlight is defaulted, White and Green colors are available

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Mounting

Mount the thermostat in location where the air temperature can be measured as accurately as possible without adversely affect by direct solar radiation or other source of heating or cooling.

1st Take off the baseplate from the controller
2nd Fix the baseplate using screwdriver on the wall
3rd Insert and clip the display unit on the baseplate

Warranty

We offer warranty of 12 month, from the sales date. If it is not the quality problems, or beyond the warranty period,we will charge for the after-sales services