ANTARES®
for water & fire

LS7...Multi-functional intelligent digital thermostats are designed for controlling speed fan and an on/off valve actuator in 2-pipe or 4-pipe FCU system, to meet up the adjusted indoor temperature.

Selection table:

Model	Description
LS7. 42	Basic type
LS7. 42R	Infrared remote control
LS7. 42H	Humiditymonitor
LS7. 42RH	• Infrared remote control+ humiditymonitor
LS7. 50	Cooling valve+heating valve +three-gear fan control

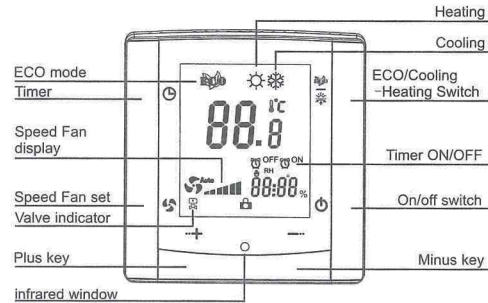Note:LS7.50 is 4-pipe system;other models are all 2-pipe stystem.

Features
> Easy mounting
> Large LCD display
> Temperature humidity chips from Switzerland
> Rotating temperature sensor
> Low power consumption
> ECO mode

Technical data:
Voltage: AC230V, 50Hz
Load current: 2A (resistive loads), 1A (inductive load)
Power consumption: < 1 W
Terminal: A single terminal can max connect two 1.5 mm² or one 2.5 mm² wire
Setting range: 5 ~ 35℃
Ambient temperature: -10℃~55℃
Protective housing: IP20

Explanation of symbols

- Heating
- Cooling
- ECO/Cooling –Heating Switch
- ECO mode
- Timer
- Speed Fan display
- Timer ON/OFF
- Speed Fan set
- Valve indicator
- On/off switch
- Plus key
- Minus key
- infrared window

1.On/off
Press the ⏻ key to switch on or switch off the thermostat.

2.Plus+& minus -
Press the +/ - to increase/ decrease your temperature setting point.

3.ECO mode
Short press 🌿 key to enter into ECO mode, temperature and fan speed is in auto mode.

4.Cooling-heating Switch
Long press 🌿 key can switch cooling/ heating mode.

5.Fan set
Press 🔄 key to set fan speed, low, mid, high, auto.

6.Timer on/off
In On mode, Long press 🕐 key to enter into Time Off mode, press +/- key to set time.
In Off mode, Long press 🕐 key to enter into Time on mode, press +/- key to set time.

7.Key-lock
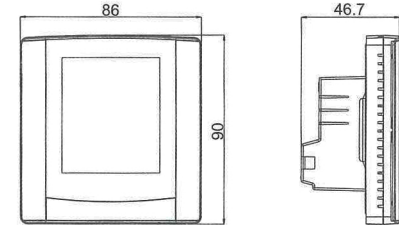Press both + -key for 5 seconds to engage/disengage the key-lock function.

Advanced settings (Qualified person preferred)
Usually finish this operation in mounting.
Press 🕐 🌿 key simultaneously when in OFF mode, then enter into the advanced setting mode. Press 🌿 key to enter into the advanced menu. Press ⏻ key can quit the current work mode in advanced setting mode.

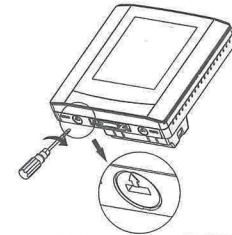| Item	Symbols	Explanation	+ or -
1	1A dJ	Modify temperature values	Adjust temperature values
2	2P 0F	ON/OFF mode	Display On shows entering ON mode when connecting power, OFF for off mode (Default)
3	3F C0	Fan mode	ON: when reaching to the set temperature, the fan stops working; Off: when reaching to the set temperature,fan continue to work.
4	4E CH	Heating mode	Default 20 ℃
5	5E CC	Cooling mode	Default 26 ℃
6	6F AC	Reset to factory setting	Long press + key

＊ ER1:temperature humidity sensor anomaly;ER0:inner sensora nomaly.

Dimension （mm）

86   46.7

90

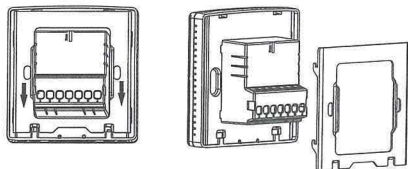## Mounting steps:

1. Turn the stator in clockwise direction to the position as shown in the picture below by a flat-blade screwdriver.

ANTARES®
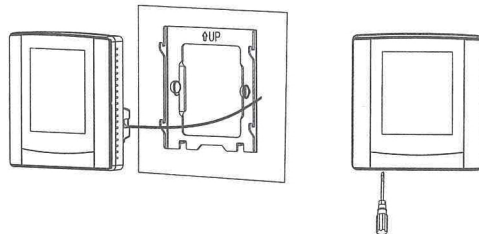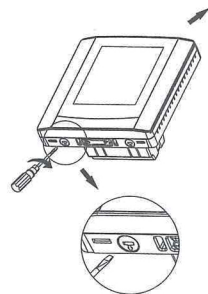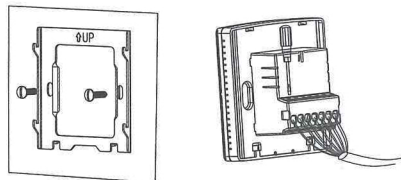*for water & fire*

2 Remove the iron bracket from the back of thermostat by pushing downwards.

3 Fix the iron bracket to the cassette by screws and connect wires correctly according to the wiring diagram.

4 Insert thermostat into the bracket from top to bottom then turn the stator 180° by a flat-blade screwdriver to complete the installation.
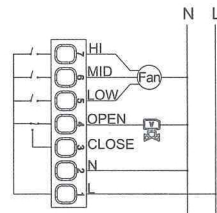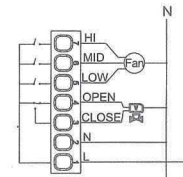

Wiring Diagram
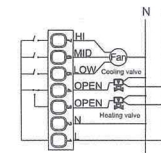
1.Two-wire normally-closed actuator with FCU

2.Three-wire single drive-by-wire actuator with FCU

3.Three-wire double drive-by-wire actuator with FCU

4.LS7.50 three-wire single drive-by-wire actuator with FCU