E31...Heating Thermostat with LCD Screen.

Heating thermostat with LCD screen,which has manual mode and energy saving mode.The thermostat is recommended for the control of electric heating device or on/off valve actuator in hydronic underfloor heating.

Selection Table:

Model	Current	Application
E31.113	3A	Built-in&floor sensor, floor limit sensor
E31.723	3A	Built-in&floor sensor,floor limit sensor,a potential-free output
E31.116	16A	Built-in&floor sensor, floor limit sensor
E31.103	3A	A group of conversion contacts potential-free output

Parameter:

Voltage:220V/230V
Power comsuption:2W
Setting range:5～50℃(can adjust to 5-90℃)
External limitation:5...60℃ (factor setting 35℃)
Sensor:NTC internal/external sensor
Switch differential:0.5-10℃adjustable
factory setting±1℃
Ambient temperature:-5～50℃
Protective houseing:IP20
Housing material: anti-flammable PC

User operation:

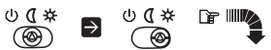
1)ON/OFF and Mode choosing
Slide the power switch to ☾ for energy saving mode, to ☼ for manual mode ,to ⏻ for Off.

2)Modify the temperature value
Press △ key to increase the set value,and press ▽ key to decrease,every step is 0.5℃.

Advanced setting (qualified person preferred):

Usually finished at mounting thermostat.
Press △ key simultaneously sliding the power on button to energy saving mode when in power off state.

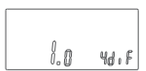
1ADJ:Temperature calibration
Press △ or ▽ key to adjust present checked value
Adjustable scale:±9.9℃

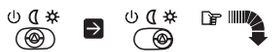


2SEN:Sensor mode
Press △ or ▽ key to choose senor working mode
IN:built-in、OUT:floor sensor、ALL:both sensors,floor sensor is the limit sensor

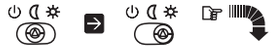
3LIT: Modify limitation value
Press △ or ▽ key to modify the temp. Limit value
Limition range:5~60℃

4DIF:switch differential setting
Press △ or ▽ key to change switch defferential
Setting range:0.5~10℃。



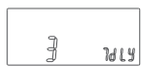


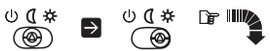
5LTP:Start anti-frozen function in power off state..
Press △ or ▽ key to change the present anti-frozen function



6RLE:Potential-free output and main power output in same/different way.
Press △ or ▽ key to change the present linkage state.
01 means assistant reverse ,
02 means main assistant reverse
03 means main assistant reverse and power off with freeze-proofing /stop ouput

7DLY:delay time of potential-free output
Press △ or ▽ key to change linkage delay time
Range:0-5min.





8HIT:Max. Temperature setting
Press △ or ▽ key to change the Max.value
Range:35-95℃。

9FAC:Reset to factory setting
Press △ key for 5seconds till showing
Reset to factory setting

Attention:

Switch off After finish the advanced setting,the modified function will operate in re-open.Please modify setting carefully.

Sensor Failure

E0:Built-in sensor short-circuited or disconnected.
E1:Exernal sensor short-circuited or desconnected.
When shows E0/E1 error,thermostat must be checked till the error is eliminated

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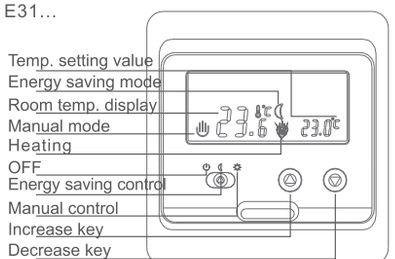
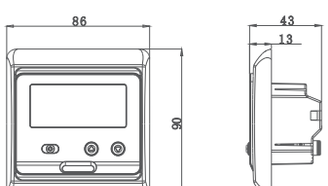
Display symbols

E31...

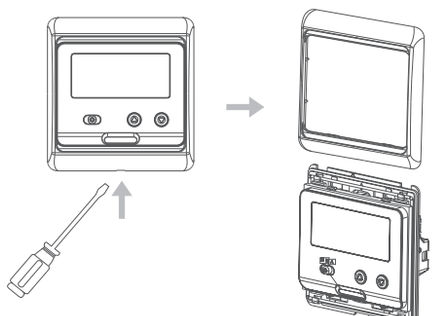


Dimension:mm

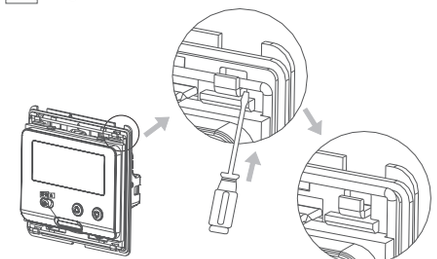


Mounting steps:

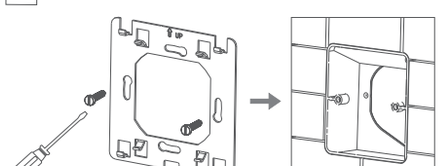
1 Release the front cover by inserting a screwdrive into bottom crack.



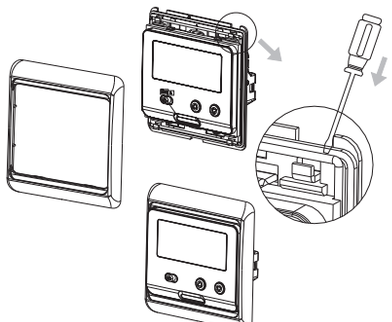
2 Take the backing plate apart according to the following diagram.



3 Mounted the backing plate in the wall socket by screwdriver.



4 After connect wires(see right diagram),the thermostat mounte on the backing plate and remounted the cover and frame.

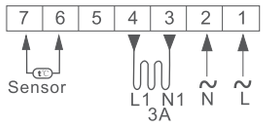


Connecting Diagram

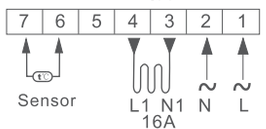
Attention:

The thermotat which connect the electric heating device is apply to full load(3200W) heating cable in 2500m height above sea level,and the rated power of external load should be less than or equal to 80%rated powerthemostat when in the 2500m to 4200m height.

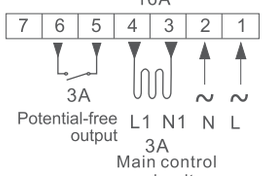
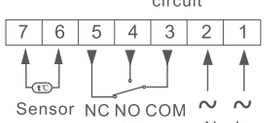
E31.113



E31.116



E31.723



E31.103