CB MANUAL

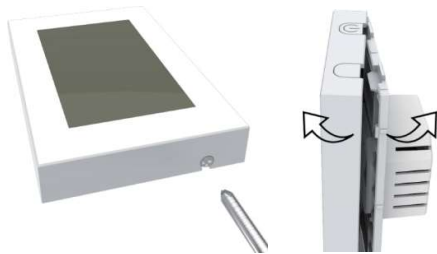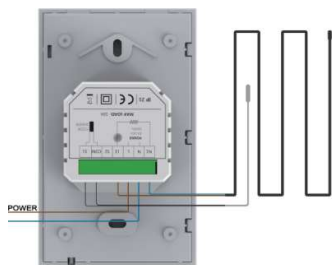*User Manual*

Instruction

The CB Manual thermostat control a floor heating system based on a built-in weekly program. You can set individual temperatures for 4 events or 2 events on different days of the week. The default weekly program parameters can satisfy most installations. If your living habits are different, you can update the weekly program parameters in the thermostat or APP. Lowering the temperature when the home is unoccupied will reduce your energy costs without reducing comfort. Furthermore, the thermostat features an adaptive function that automatically changes heating period start times to ensure that the required temperature is reached at the required time. After some days the adaptive function has learned when the heating must be switched on.

Technical Specification

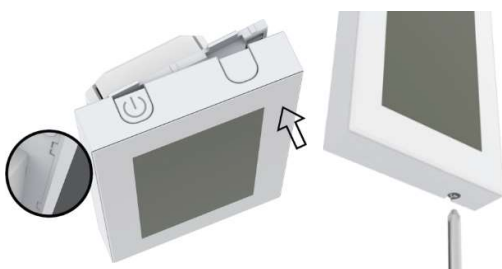|			
Supply voltage:	85-265 VAC 50/60 Hz	Standby Power Loss:	<1W
Load:	Max.16 A (resistive load)	Cable Diameter:	≤2.5mm²

1. Loosen the bottom screw with a Phillips screwdriver. Then open the thermostat from the right corner as shown.
   Note: Screw the nut out of the groove. No need to unscrew it

2. Wire as shown:
   L/N lead: Connect the power cord using the terminal block. Use a terminal block to connect the load line.
   L1/N1 lead: Use a terminal block to connect the load line.
   COM/S1 terminal: Connect the floor sensor.
   Note: Disconnect the main power supply before wiring

3. Install the back cover into the terminal box and secure it with the set screw.

4. Install the back cover into the terminal box and secure it with the set screw.

1. On/Off Button	4. Sensor selection	7. Day and time
2. Mode	5. setpoint	8. Touch key
3. Temperature	6. Event	

Function and operation

On/Off
Press button to turn on or turn off

Temporary Override Temperature
Override temperature is a temporary temperature setting in auto mode and it has no effect on schedule 4-event program.
To do so:
With Active Display press ▲ or ▼ buttons to set temperature.
Press the **OK** button to confirm and return back to active display interface.

Mode selection
Three Mode is available.
Auto mode: The thermostat automatically runs according to the weekly-program parameters.
Manual Mode: Thermostat runs according to manually select temperature.
Anti-frozen mode: The thermostat runs at a lower set temperature. The temperature range can be set from 5°C to 15°C in this mode. This mode is used the home is unoccupied and keep the home at a lower temperature

To do so:
With Active Display (backlight on) press **OK** to activate the menu. The MODE option flashes.
Press **OK** button.
Press the ▲ or ▼ button to get mode you need.
Press **OK** button to confirm.
If you select manual mode or Anti-frozen mode, you also need to press ▲ or ▼ to set the temperature.
Press **OK** button to get back to Active Display.

Key lock
I want to lock the thermostat menus to prevent the settings from being changed.
Note: For emergency, can run

To do so:
1.With Active Display (backlight on) press until lock symbol comes.
2.With Active display, press **OK** button **MODE** is flashes.
Press ▲or▼ button until the Key lock option flashes.
Press **OK** button to set.
Press **OK** button to confirm.
Press **OK** button to get back to Active display.
To unlock the Key lock:
With Active display, press and hold the button simultaneously for three seconds

Weekly program parameter setting

In the auto mode, the thermostat runs automatically according to the setting parameters of the weekly program. The weekly program parameters contain two major parameters: Schedule and Event.

Schedule: Two schedule for a week.

5+1+1: The Event parameter is the same from Monday to Friday, with separate Event parameters on Saturday and Sunday.

7: Separate Event parameters every day

> Schedule setting:
> With Active display, press **OK** button. The MODE option flashes.
> Press▲or▼button to get Schedule.
> Press **OK** button to enter.
> Press▲or▼button to set.
> Press **OK** button to confirm.
> Press **OK** button to come back to Active display.

Event: Home
• when I wake up in the morning
• when I am away at work
• when I come home
• and at night
Event: Office
• When I am at office
• When I get off work
Temperature in each event can be set

> To do so:
> With Active display, press **OK** button Mode option flashes.
> Press▲or▼ button to get Event.
> Press **OK** button to get week.
> Press▲or▼ button to get the day.
> Press **OK** button to enter event.
> Press▲or▼ button to set the parameters in that event.
> Press **OK** button to set the temperature for this phase.
> Press▲or▼ button to set the temperature.
> Press **OK** button to set the hour that the temperature start.
> Press▲or▼ button to set hour.
> Press **OK** button to set the Minutes that the temperature start.
> Press▲or▼ button to set minutes.
> Press **OK** button to come back to this phase.

Note: Press several times to get back to active display.

Event: Factory Settings for Event

Home								
Week	Wake ☼		Leave ⬆		Return ⬆		Sleep ☾	
	Start time	Temperature	Start time	Temperature	Start time	Temperature	Start time	Temperature
Mon--Fri	6:00	25.5°C	8:00	20.5°C	17:00	25.5°C	22:00	20.5°C
Sat--Sun	8:00	25.5°C	8:30	25.5°C	17:30	25.5°C	23:00	20.5°C
Office								
Week	At work ☼		Get off work ☾					
	Start time	Temperature	Start time	Temperature				
Mon--Fri	7:00	25.5°C	18:00	20.5°C				
Sat--Sun	7:00	20.5°C	18:00	20.5°C				

Settings

This thermostat also can be used to other application with different setting. It should be set by professional technicians to avoid damage caused by abnormal settings.

> To do so:
> With Active display, press **OK** button MODE option flashes.
> Press▲or▼ button to get settings.
> Press **OK** button to confirm.

Setting parameter:

1.Time

Set date and week

Note: When Wi-Fi format connect to internet, the date and week will be updated.

> Time setting:
> Get setting. Press▲or▼button to set time.
> Press **OK** button to confirm.
> Press▲or▼button to get hour you need.
> Press **OK** button to set minutes.
> Press▲or▼button to get minutes you need.
> Press **OK** button to set week.
> Press ▲or▼button to get the day you need.
> Press **OK** button to enter the hour setting of the day

Note: Press several times to get back to active display.

2.Temp unit

Change the temperature unit (°C/°F) used in the display.

> Temp Unit setting:
> Get settings. Press▲or▼button to get °F/°C.
> Press **OK** button to enter.
> Press▲or▼button to get the unit.
> Press **OK** button to confirm.
> Press **OK** button to come back to active display

3.Sensor type

This thermostat can be connected not only to the floor sensor but also to two other commonly used floor sensors. When replace the old thermostat, there is no need to replace the floor sensor for easy installation.

> Sensor Type setting:
> Get settings. Press▲or▼button to get Sensor type.
> Press **OK** button to enter.
> Press▲or▼button to select sensor type.
> Press **OK** button to confirm.
> Press **OK** button to come back to active display.

No.	Senor type	Parameters
00	3950(Normal one)	
01	3600	R(25°C)=12kΩ R(10°C)=22.2kΩ
02	3700	R(25°C)=10kΩ R(10°C)=19.1kΩ

4.Sensor Selection

This thermostat has floor sensor and built-in sensors to detect room temperature. Therefore, three sensor applications are available:
Room: Controls room temperature based solely on built-in sensors.
Floor: Controls the floor temperature based solely on the floor sensor.
Room.Limit: Controls the room temperature based on the built-in sensor while monitoring the floor temperature not exceed the upper limit. This application can be used in places such as wood floors where floor temperature is critical.

Sensor Selection setting
Enter settings. Press▲or▼button to get sensor selection.
Press **OK** to enter.
Press ▲or▼button to get sensor you need.
Press **OK** button to confirm.
Press **OK** button to come back to active display.

5.Calibration

This thermostat has built-in probe and floor sensor calibration function. In the case of demand for higher precision.

Calibration setting:
Enter settings. Press▲or▼button to get Calibration.
Press **OK** button to get room or floor.
Press▲or▼button to get built-in probe or floor sensor.
Press **OK** button to enter calibration.
Tap ▲ or ▼ to adjust the real-time temperature to match the displayed temperature value of the calibration instrument.
Press **OK** button to come back to Active display.

6.Location

This thermostat is suitable for use in both homes and offices. For the office, a set of weekly program parameters is built in. See the Weekly Program Parameters section for details.

Location setting:
Enter settings. Press▲or▼button to get Location.
Press **OK** button to get office or home.
Press▲or▼button to get office or home.
Press **OK** button to confirm.
Press **OK** button to come back to Active display.

7.Adaptive

The thermostat features an adaptive function that automatically changes heating period start times so as to ensure that the required temperature is reached at the required time.

Adaptive setting:
Enter settings. Press▲or▼button to adaptive.
Press **OK** button to get.
Press▲or▼ to get Yes or No.
Press **OK** button to confirm.
Press **OK** button to come back to active display

8.Readout

This thermostat can read the amount of time (in percent) that the heating has been turned on within a certain period.

> Readout setting:
> Enter settings. Press▲or▼button to Readout.
> Press **OK** button to get.
> Press▲or▼button to get 1Day, 30Days and 365Days.
> Press **OK** button to come back to setting interface.

9.Factory Reset

> Factory Reset setting:
> Enter settings. Press▲or▼button to Factory Reset.
> Press **OK** button to get.
> Press▲or▼button to get Yes or NO.
> Press **OK** button to confirm.
> Press **OK** button to come back to Active display interface.

Setting parameters

No.	Name	Default parameter	Setting range
1	Time	/	/
2	°F/°C	°F	°F °C
3	Sensor Type	00 3950	00 3950 01 3600 02 3700
4	Sensor Selection	Floor	Room Floor Room.Limit
5	Calibration	0°C	-5°C -- 5°C
6	Location	Home	Home Office
7	Adaptive	No	Yes No
8	Readout	/	/
9	Factory Reset	No	No Yes

Troubleshooting

E1: Built-in probe failure, please contact your dealer or professional technician.
E2: External probe failure, please contact your dealer or professional technician.

Dimension (mm)