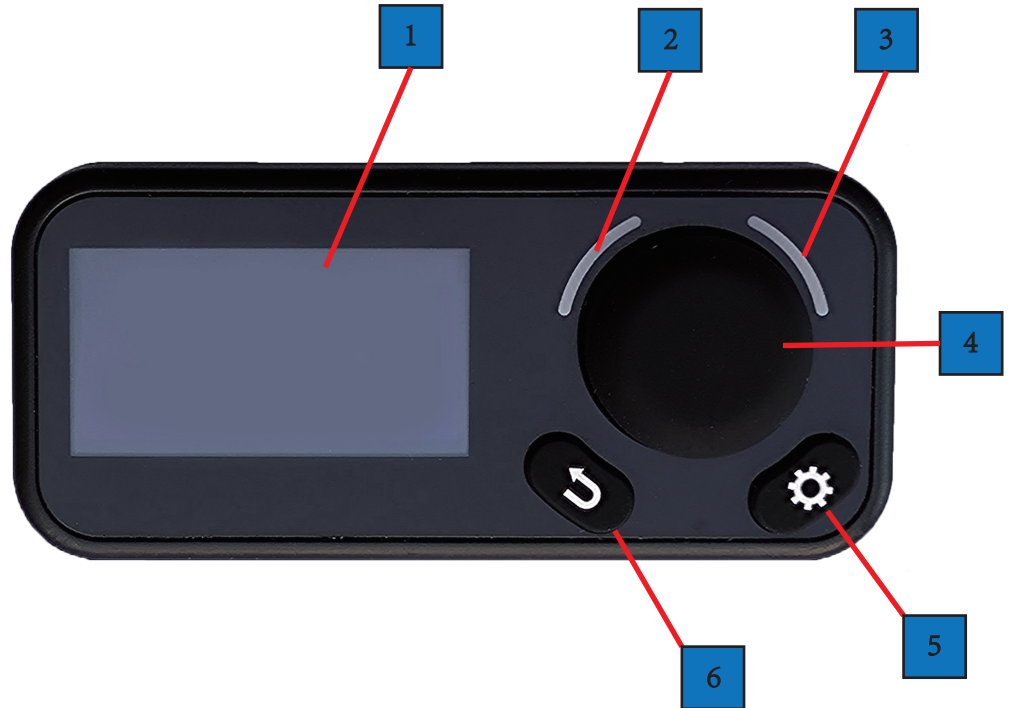


OLED PANEL Instruction Manual

1.54 inch OLED panel		
1	OLED display screen	
2	3	LED indicator
4	Knob & Confirm button	
5	Set button	
6	Back button	



CONTENS

1.DISPLAY

- 1.1 OPERATING MODE
- 1.2 MODE SETTINGS
- 1.3 WORK STATE

2.SETTINGS

- 2.1 LANGUAGE SETTINGS
- 2.2 BLUETOOTH SETTINGS
- 2.3 SOUND SETTINGS
- 2.4 INFORMATION
- 2.5 FUEL PRIMING
FUNCTION
- 2.6 FACTORY RESET
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3.COMMUNICATION AND FAULT
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 3.2 NO CONNECTION
 3.3 COMMUNICATION DISCONNECT
 3.4 FAULT

4.LED INDICATOR

5.BLUETOOTH AND UPGRADES

5.1 BLUETOOTH
 5.2 UPGRADES

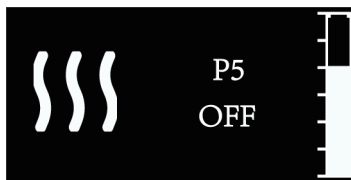
6.INSTALLATION

6.1 INSTALLATION LOCATION
 6.2 INSTALLATION STEPS

1.DISPLAY



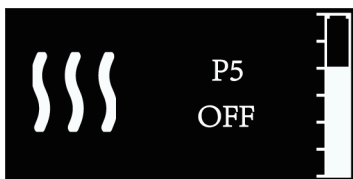
- After power-on, the panel enters the initialization state
- Once the initialization is complete, the panel enters the control interface (figure 1)



(figure 1)

- The screen display content
 - Operation Mode
 - Intensity Adjustment
 - State Of Heater

1.1 OPERATING MODE



Variable Heat mode

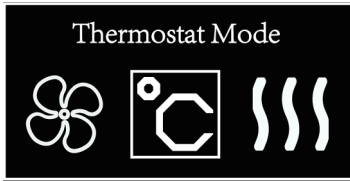


Thermostat Mode



Ventilation mode

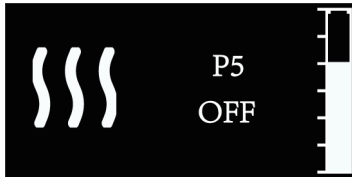
1.2 MODE SETTINGS



- Enter the mode settings
 - Under the interface (figure 1) short press the confirm button
- Change selection mode
 - Rotate the knob to change selected mode
- Confirm selection mode
 - Short press confirm button
- Exit selection mode
 - Short press the back button



Long press: Press time >2.5 seconds
Short press: Press time <2.5 seconds



- Warm air level range (P1-P7)
 - P1 is warm air minimum power
 - P7 is warm air maximum power
- Intensity Adjustment
 - Rotary knob



- Temperature setting range (5°C -35°C)
 - 5°C is the minimum room temperature
 - 35°C is the maximum room temperature
- Temperature setting adjustment
 - Rotary knob



- Ventilation level range (P1-P7)
 - P1 is the minimum wind speed
 - P7 is the maximum wind speed
- Intensity Adjustment
 - Rotary knob



Ventilation mode only fan operation

1.3 WORK STATE



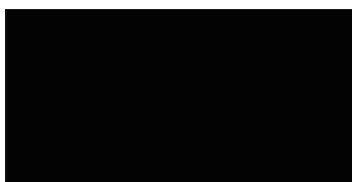
- STATE
 - The heater is turned on
- SETTINGS
 - Short press confirm button to enter the mode settings
 - Long press the confirm button to turn off the heater



- STATE
 - The heater is Shutting Down.
 - (OFF Flashing)
- SETTINGS
 - Short press confirm button to enter the mode settings
 - Long press the confirm button to turn on the heater



- STATE
 - The heater is turned off.
- SETTINGS
 - Short press confirm button to enter the mode settings
 - Long press the confirm button to turn on the heater



- STATE
 - Standby (screen off)
- SETTINGS
 - Press any key to exit standby mode



1. After the heater is completely turned off, panel will automatically enter the standby mode without setting within 30 seconds
2. When the heater is working in power mode or temperature mode, switching to ventilation mode is not allowed

2.SETTINGS

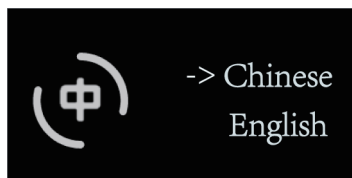
- Enter Settings
 - Short press set button
- Switch setting options
 - Rotary knob

- Exit Settings
 - Short press back key
 - Long press confirm button

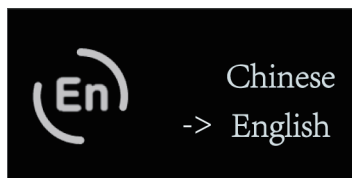
2.1 LANGUAGE SETTINGS



- Current setting options
 - Language setting
- Enter language Settings
 - Short press confirm button
- Switch setting options
 - Rotary knob



- Current selected language
 - Chinese
- Confirm language Settings
 - Short press confirm button
- Exit language Settings
 - Short press the back button
 - Long press confirm button

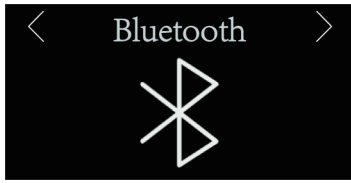


- Current selected language
 - English
- Confirm language Settings
 - Short press confirm button
- Exit language Settings
 - Short press the back button
 - Long press confirm button



Language Settings have memory function, will not change when the power is cut off

2.2 BLUETOOTH SETTINGS



- Current setting options
 - Bluetooth Setting
- Enter the bluetooth Settings
 - Short press confirm button
- Switch setting options
 - Rotary knob



- Current selection status
 - ON
- Confirm Bluetooth Settings
 - Short press confirm button
- Exit Bluetooth Settings
 - Short press the back button
 - Long press confirm button

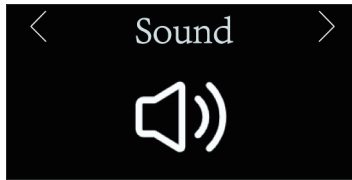


- Current selection status
 - OFF
- Confirm Bluetooth Settings
 - Short press confirm button
- Exit Bluetooth Settings
 - Short press the back button
 - Long press confirm button



Bluetooth Settings have memory function, will not change when the power is cut off

2.3 SOUND SETTINGS



- Current setting options
 - Sound Settings
- Enter sound Settings
 - Short press confirm button
- Switch setting options
 - Rotary knob



- Current selection status
 - ON
- Confirm sound Settings
 - Short press confirm button
- Exit sound Settings
 - Short press the back button
 - Long press confirm button



- Current selection status
 - OFF
- Confirm sound Settings
 - Short press confirm button
- Exit sound Settings
 - Short press the back button
 - Long press confirm button

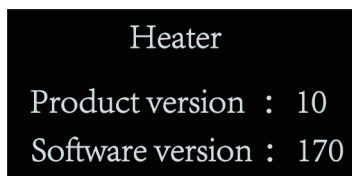


Sound Settings have memory function, will not change when the power is cut off

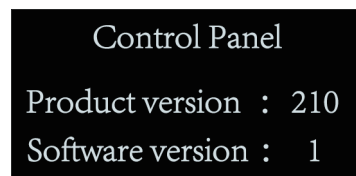
2.4 INFORMATION



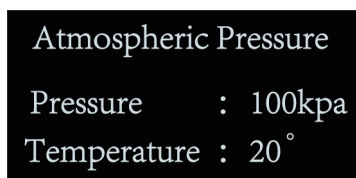
- Current setting options
 - Information
- Enter information options
 - Short press confirm button
- Switch setting options
 - Rotary knob



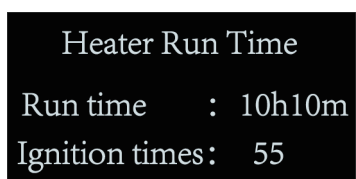
- Current information display
 - Heater information
- Switching information display
 - Rotary knob
- Exit information display
 - Short press the back button



- Current information display
 - Control Panel Information
- Switching information display
 - Rotary knob
- Exit information display
 - Short press the back button



- Current information display
 - Atmospheric pressure information
- Switching information display
 - Rotary knob
- Exit information display
 - Short press the back button



- Current information display
 - Run time
- Switching information display
 - Rotary knob
- Exit information display
 - Short press the back button



- Current status
 - Monitor mode
- Switching information display
 - Rotary knob
- Exit monitoring mode
 - Short press the back button



The monitoring mode is used by professionals

2.5 FUEL PRIMING FUNCTION



(Figure 2)

- Start:
Under the "Working time" interface
 1. Long press the Back and Set buttons
 2. When it appears (Figure 2), press confirm
- Exit
Short press the back button



- Current state
 - Priming
- Time regulation
 - Rotary knob
- Exit
 - Short press the back button
 - Long press confirm button



Prime Fuel 90 seconds, the default time automatically quit the end of the countdown

2.6 FACTORY RESET



- Current setting options
 - Factory Reset
- Enter the confirm state of Reset settings
 - Short press confirm button
- Switch setting options
 - Rotary knob



- Current state
 - Reset settings confirm status
- Confirm to Reset
 - Short press confirm button
- Exit the Reset Settings
 - Short press the back button
 - Long press confirm button



Factory Reset Settings Restore language, Bluetooth, sound, and other related Settings

2.7 COUNTDOWN MODE



- Current setting options
 - Countdown Mode
- Enter Countdown Mode
 - Short press confirm button
- Switch setting options
 - Rotary knob



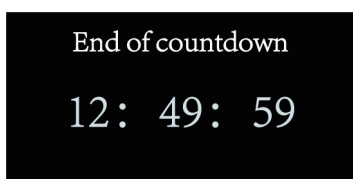
- Current options
 - Select work mode
- Confirm selection mode
 - Short press confirm button
- Change selection mode
 - Rotary knob
- Exit
 - Short press the back button



- Current options
 - Setting mode parameters
- Confirm mode parameters
 - Short press confirm button
- Adjusting mode parameters
 - Rotary knob
- Return to select work mode
 - Short press the back button



- Current options
 - Set time
- Confirm time
 - Short press confirm button
- Adjust time
 - Rotary knob
- Return to set mode parameters
 - Short press the back button



- Current options
 - Countdown to work
- Return to set time
 - Short press the back button



1. The time can be set in hours and minutes
2. The countdown ends and the heater is turned on

3.COMMUNICATION AND FAULT

- Communication status
 - When communication is abnormal, a prompt will appear
- Fault state
 - When a fault occurs, the heater enters the fault lock state
 - Long press confirm button, quit the locking state, heater is closed

3.1 INITIALIZE



- status
 - Panel initialization and communication with heater



When initializing, If the panel fails to communicate with the heater, The panel enters the disconnected state

3.2 NO CONNECTION



- status
 - Communication with heater failed
- Settings
 - Short press any keys back to initialize



When the "No Connection" state appears, please check the communication cable first.

3.3 COMMUNICATION DISCONNECT



- Work Status
 - Communication between panel and heater is disconnected
- Exit
 - Communication recovery automatically exits



- Status
 - Communication between panel and heater is disconnected
- Exit
 - Communication recovery automatically exits



When the Disconnected state appears, check the communication cable first

3.4 FAULT



- Display
 - Fault state
 - Fault code 31
 - Fault cause (Undervoltage)
- Exit
 - Long press confirm button, exit the fault state



After exiting the fault state, please wait until the heater is completely turned off before restarting the heater. Otherwise, the heater may not exit the fail-lock state

4.LED INDICATOR

- LED indicator
 - You can know the current working status by observing the LED indicator
- Display and status
 - The following lists the corresponding states of different LED displays

Work Status	LED display
Initialize	Blue light
Disconnect	Blue light flashing
Operating	Green light
Shutting Down	Red light
Fault	Green light flashing

5. BLUETOOTH AND UPGRADES

● Bluetooth

- Bluetooth support, can use the (BLF) APP connection control on smart devices
- To use the Bluetooth function, please refer to the user manual of the (BLF) APP

5.1 BLUETOOTH



- Display
 - Bluetooth connected
- Function
 - On-Line APP control
 - Modifying Bluetooth Name
 - Check fault
 - Remote upgrade



When the panel is controlled synchronously with the APP, the command is executed with the latest command

5.2 UPGRADES



- Display
 - Upgrading
- Function
 - Panel upgrade
 - Heater upgrade
- Exit
 - Automatic exit when the upgrade is complete

6. INSTALLATION

● Installation Notes:

- The control switch must be installed in the vehicle in accordance with the corresponding technical specifications for vehicle control.

● Safety Information:

- Find a suitable mounting surface within the driver's field of vision to fix the control switch.
- Do not use high-voltage devices unless the electronic circuit (PCB board) has been disconnected.
- If welding is required on the vehicle, do not connect the DC power supply to the control switch. Welding will cause serious damage to the switch.
- Do not shorten the original control lead wire. When installing this control switch, the vehicle power supply must be turned off.
- This control switch should be installed in the waterproof and moisture-proof location.

6.1 INSTALLATION LOCATION

● Installation Location:

- The control switch should be installed in the location easy to read and operate
- The opening size of control switch is 16mm × 22mm, refer to "Figure 1"

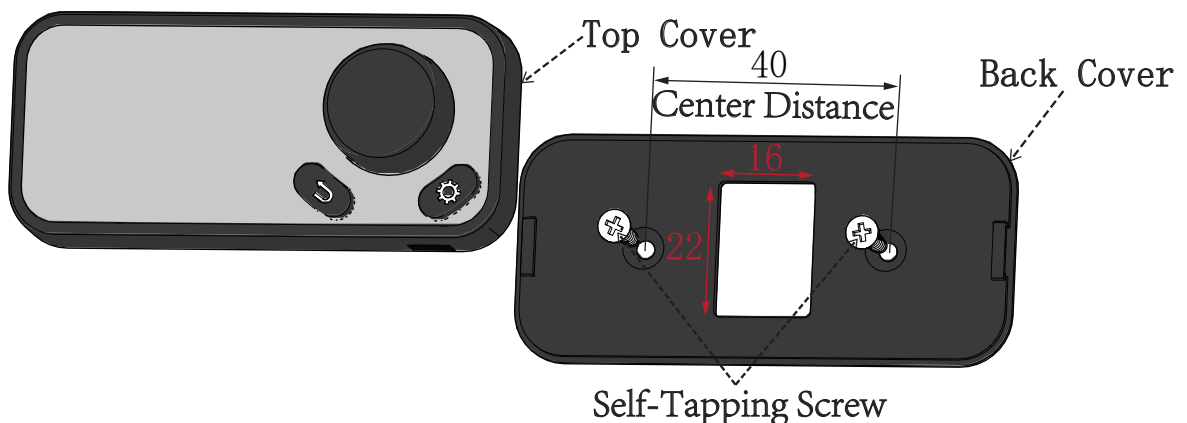


Figure 1

(The dimensions are in millimeters and are not to scale)

6.2 INSTALLATION STEPS

● Installation steps:

1. Clean the installation opening and surface firstly to ensure that the installation surface is smooth and clean without dust and water mist.
2. Insert the tapping screw into the mounting surface as shown in Figure 1, and fix the back cover on the mounting surface.
- 3 Insert one end of the control switch lead wire into the PCB board terminal as shown in Figure 2, and the other end through the back cover and installation opening as shown in Figure 1.
4. Finally, press the top cover firmly onto the back cover as shown in "Figure 3".

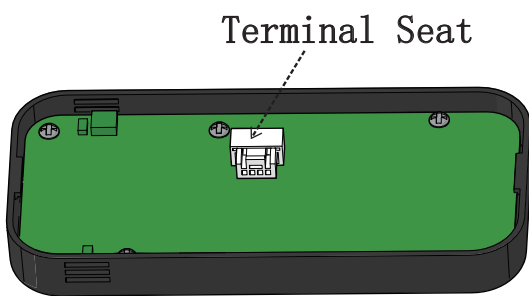


Figure 2

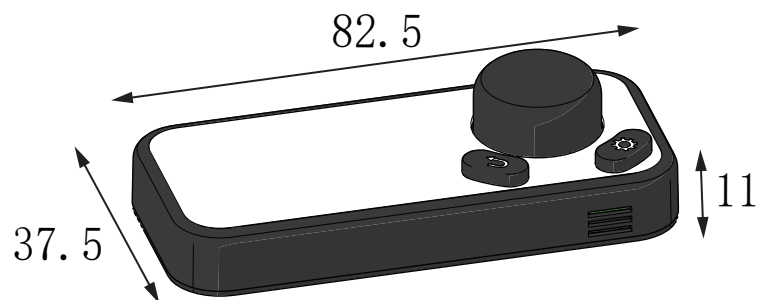


Figure 3



Do not make any tensile stress to the control switch lead wire.



Pull out the the control switch lead wire during the heater working process is forbidden,once the plug at both ends of the lead wire falls off from the control switch or controller, it will cause the heater heating interruption and failure.