


LAVANER Pro Max Alpine Controller Operating Instruction		<div style="display: flex; justify-content: space-between;"> Left key Right key </div>  <div style="display: flex; justify-content: space-between; margin-top: 10px;"> Return key Power key/OK key </div>
Control panel standby state Display description	After the equipment is powered on, the screen will display the setting time interface. Press power key / OK key to enter the week setting interface, and press power key / OK key again to enter the main interface to display heating, ventilation, timing and setting icons. Select the functions to be used according to your needs. After the selected icon flashes, press power key / OK key to enter.	
Key operation instruction (When the main interface is displayed)	Stand-by state	Short Press the power key / OK key: enter the heating time setting interface, and press power key / OK key again to start the heating
		Left key: Select
	Right key: Select	
	Power-on status	Press and hold the power key / OK key: the panel displays off after shutdown.
Left key: Level + 1 / Temperature + 1		
Right key: Level - 1 / Temperature - 1		
Ventilation	<p>After the selected icon (FAN) flashes, press power key / OK key to enter, adjust the running time according to different needs. Press the left key to reduce the running time, and press the right key to increase the running time. After the running time is set, short press the Power key to start the ventilation. The Fan speed can be adjusted by the left key and the right key from L1 to L9.</p> <p>To stop the ventilation, Press and hold the power key for 3 seconds, the main interface will be displayed and ventilation is finished</p>	
Power on / off instruction	Power-on status	Press the power key to enter the running time adjustment interface. Adjust the running time according to different needs. Press the left key to reduce the running time, and press the right key to increase the running time. (The default is infinite ∞ time) The running time can be set in the range of 10-360min. When it is adjusted to 360min, press the right key again to set it to infinite ∞ running time. After the running time is set, short press the Power key and enter the heating interface.
	Power-off status	Press and hold the power key for 3 seconds, and the screen will display OFF. After the shutdown process is completed, the main interface will be displayed.
Remote Control matching operation instruction	Stand-by state	Meanwhile, press and hold the left key and the return key for 3 seconds to enter the Remote Control matching interface. Press and hold power key of the Remote Controller to conduct matching. After successful matching, the device will automatically exit the matching interface. Short Press the power key to exit or exit automatically without pressing a key after 20 seconds. A controller can match two Remote Controllers at the same time.
Manual / Automatic mode switching description	Power-on status	Press and hold the return key for 3 seconds to switch the automatic mode. When "30 ° C" is displayed in the upper right corner of the screen, press and hold the key again to switch the manual mode. Display such as "L4" (default manual mode). In the power-on state, press and hold the power key of the Remote Control for 3 seconds to switch the manual / automatic mode cyclically. The switch can be switched again only after an interval of more than 3 seconds.
Manual priming operation instruction	Stand-by state	Press and hold the right key for 3 seconds to enter the manual Priming interface. The default time is "20s". Press the right key to increase the Priming time, and press the left key to decrease the Priming time (the maximum Priming time is 120 seconds). Press the power key to start / stop the Priming, press the return key to exit, and the Priming will automatically exit without action (20s).

<p>Time setting Date setting</p>	<p>Stand-by state</p>	<p>Press the left / right key to select the setting icon and then press the OK key to enter. The flashing clock icon will be displayed. Press the OK key to enter the clock adjustment (24-hour system), and then the flashing 00:00 will be displayed (press the left or right key to adjust). After the clock is set, press the OK key to enter the minute setting to see the flashing minutes (press the left or right key to adjust). After the minute is set, press the OK key to enter the week setting (press the left or right key to adjust), among them, Monday to Sunday is available (MON, TUE, WEN, THR, FRI, SAT, SUN.) After setting the week, press the return key to return to the previous menu or the OK key to return to the main interface.</p>
<p>Timing Settings</p>	<p>Stand-by state</p>	<p>On the main interface, press the left / right key to select P for timing. When the timing icon flashes, press the OK key to enter. There are 5 pre-selected times (p1.p2.p3.p4.p5), which can be set on the same day of the week or on different days of the week. For example, select P1: press the OK key to enter the P1 timing setting interface, and then press the OK key to enter the week selection. (it can be adjusted by pressing the left or right key.) After pressing the OK key, the clock icon will flash. (it can be adjusted by pressing the left or right key.) After pressing the OK key, the minute icon will flash. (it can be adjusted by pressing the left or right key.) Then press the OK key to set the timing running time to infinity by default. If the timing operation time needs to be adjusted, (it can be adjusted by pressing the left or right key.) the operation time can be set to 10-360min. When it is adjusted to 360min, press the right key again to set it to infinite ∞ time operation). Then press the OK key to select ON or OFF through the left / right key. Finally, press the Return key to return the screen to the main interface. When the timing is turned on, there will be an icon showing the timing on, and P1 will be checked. When the pre-selected time operation ends, the √ after P1 will be canceled, which indicates that P1 operation ends.</p> <p>If p2.p3.p4.p5 does not turn on the timing function, the icon prompts to turn off.</p> <p>If want to set the p2.p3.p4.p5, it is also set according to the above operation.</p>
<p>Checking the Status</p>	<p>Power-on status</p>	<p>At the same time, press and hold the left / right key to enter the Status Checking interface. The data is arranged from top to bottom, including the Power Supply Voltage, Glow Plug power, Motor RPM, Heating Exchanger Temperature, Fuel Pump Frequency and Atmospheric Pressure. Press the left and right keys to turn the page.</p>

Important Instructions for Safe Operation.

Before starting your heater after a lengthy period of non-use (summer months),

check that all parts are securely mounted as when originally installed (tighten screws where necessary).

Check the fuel system visually for any leaks.

Use fresh fuel if possible.

Heating at High Altitudes

When using the heater at high altitudes, please note:

The Pro Max 2KW Alpine Heaters provide automatic fuel adjustment from sea level up to 3000m or 9842 feet elevation.

The Pro Max 5KW Alpine Heaters provide automatic fuel adjustment from sea level up to 5500m or 18044 feet elevation.

No owner adjustment is needed so the feature is locked out.

Screen-off state instruction	<p>In the shutdown state, the screen-off state of the device will be turned on after the key has not been operated for more than 3 minutes. No display after the equipment is off, the screen will be off. In the power-on state, the screen-off state will be turned on after no operation for more than 3 minutes. In the screen off state, if there is a blinking light, then press any key to wake up the Controller</p>		
Error Code and Trouble Shooting	Startup failure	E-01	Two Times failures. Check the fuel supply circuit, air intake and exhaust
	Flame out	E-02	The flame goes out during operation. Check the fuel circuit.
	High voltage	E-03	Voltage continuously higher than 16V for 5 seconds
	Low voltage	E-04	Voltage continuously lower than 10V for 20 seconds
	Air outlet temperature sensor fault	E-05	Air outlet temperature sensor open circuit or short circuit
	Air inlet temperature sensor fault	E-06	Air inlet temperature sensor open circuit or short circuit
	Fuel pump fault	E-07	Fuel pump open circuit or short circuit
	Fan fault	E-08	Fan open circuit or short circuit
	Air outlet overheating fault	E-09	The air outlet temperature sensor detects that the air outlet temperature is greater than 160 °C
	Glow Plug fault	E-10	Glow plug open circuit or short circuit
	Flame sensor overheating fault	E-11	The temperature of aluminum body is greater than 260 °C. Check whether the air outlet is blocked
	Overheating Sensor fault	E-12	Overheating sensor open circuit or short circuit
	Controller and ECU signal interruption	E-13	Check whether the circuit between the controller and ECU is open
	Atmospheric pressure sensor	E-14	Replace the Controller
	Air inlet overheating fault	E-15	The air inlet temperature sensor detects that the air inlet temperature is greater than 50 °C
Error Code clearing	<p>When a fault occurs in standby mode, press and hold the power key to clear the fault display. If the fault has been eliminated, press the power key to start the unit normally. If the fault is not eliminated, the Error Code will still be displayed until the fault is eliminated. See Error Code for details.</p>		