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IMPORTANT:
MUST BE READ

EN

831085300

rev. 1.0

09/11/2023

LCD Remote Control Instruction Manual

PELLET STOVE



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1 PRODUCT DESCRIPTION

1.1 TECHNICAL DATA



The "TYPE" stove type is indicated on the CE plate, present on the back of the product or inside the openable doors.

Stoves

Type	CORNER INSERT
Thermal power (P _{MAX} / P _{MIN} kW)	10.0 / 4.5
Efficiency (P _{MAX} / P _{MIN} %)	88.5 / 93.0
Hourly consumption (P _{MAX} / P _{MIN} kg/h)	2.4 / 1.0
CO at 13% O ₂ (P _{MAX} / P _{MIN} mg/Nm ³)	0.014 / 0.019
Smoke temperature (MAX °C)	176
Gas flow (MAX g/s)	9
Minimum draft (Pa)	12
Voltage / Frequency (V/Hz)	230 / 50
Distance from flammable wall (Back / Side / Front mm)	5 / 5 / 1000
Distance from NON-flammable wall (Back / Side / Front mm)	0 / 0 / 1000

1.2 PRODUCT FEATURES

Consult the Technical Data paragraph to view the product characteristics and the Installation, use and maintenance manual for all information for correct installation.



In case of installation with upper flue outlet it is necessary to break the pre-cut present in the top of the product. Use a hammer and with a firm blow break the pre-cut. Be careful not to damage the rest of the stove.

STOVES



THE LENGTH OF THE FUME DUCT MUST BE A MAXIMUM OF 6 METRES OF 80 mm DIAMETER TUBE AND EACH 90° BEND OR (T) CONNECTION MUST CORRESPOND TO 1 METRE OF TUBE.

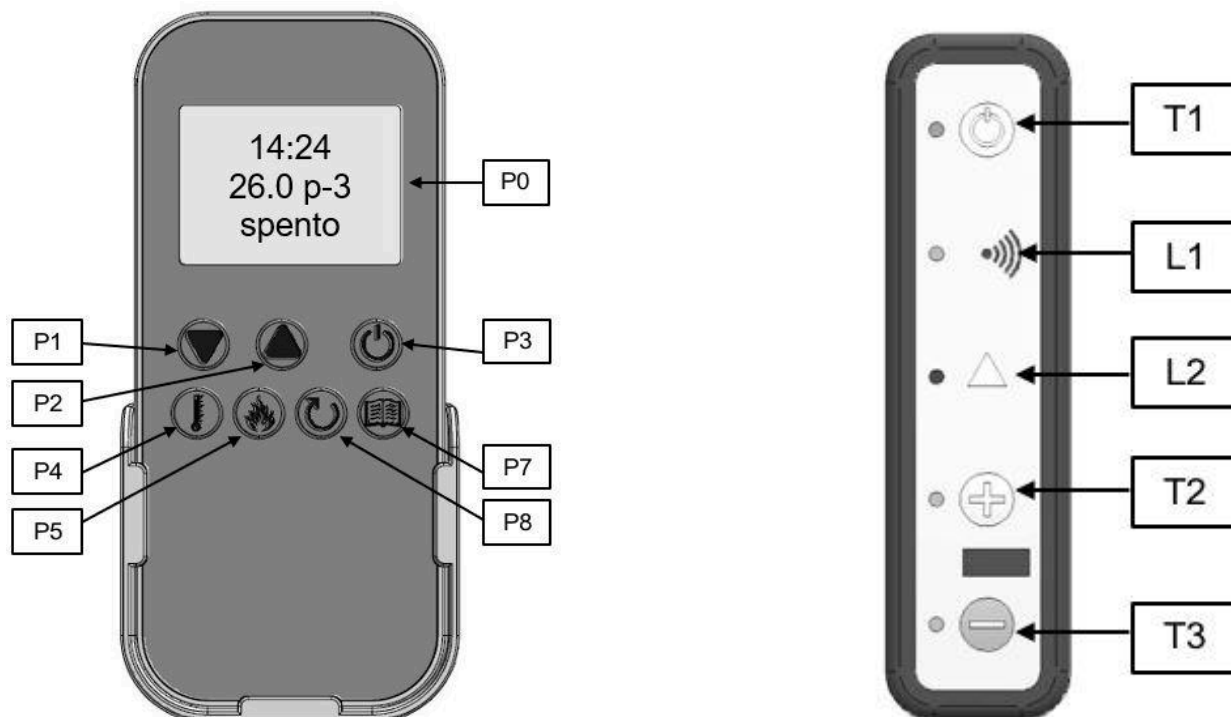
TO GUARANTEE THE CORRECT OPERATION AND YIELD OF ALL OUR PELLET ITEMS, INSTALL A T-CONNECTION AND AT LEAST 1 LINEAR METRE OF FUME DUCT CERTIFIED IN ACCORDANCE WITH EN1856-2 BEFORE CARRYING OUT A CONNECTION TO THE FLUE PIPE.



FOLLOW THE ASSEMBLY INSTRUCTIONS INSIDE THE PRODUCT

2 USE OF THE PRODUCT

2.1 REMOTE CONTROL



The remote control displays information regarding the operating status of the stove. A variety of data can be displayed and settings carried out according to the level of access by using the menu. Depending on the selected mode and on their position on the display, the data visualised may acquire different meanings.

PANEL DESCRIPTION

DISPLAY (P0)

BUTTON (P1) - Decrease:

The button in programming mode modifies/decreases the selected menu value, in WORK/OFF mode it decreases the temperature value of the room thermostat or stove heat output.

BUTTON (P2) - Increase:

When in programming mode, use this button to modify/increase the selected menu value. When in WORK/OFF mode, use this button instead to increase the room thermostat temperature value or stove heat output.

Button P3 – ON/OFF release:

Hold this button down for two seconds to manually switch the stove on or off respectively depending on its initial status i.e. SWITCHED OFF or ON. Simply press to return to the previous menu until the home screen appears. If alarms have occurred which have caused the stove to lock, the button allows unlocking and subsequent passage to the OFF state.

BUTTON (P4) - Ambient Temperature Set:

When in WORK mode, the button allows to access the ambient temperature set. In menu mode, use this button to go back to the previous menu item or, in programming mode, to go back to the previous sub-menu item. Any change is automatically saved.

BUTTON (P5) - Power Set:

When in WORK mode, the button allows to access the power value. In menu mode, use this button to move to the next menu item or, in programming mode, to go back to the subsequent sub-menu item. Any change is automatically saved.

BUTTON (P6) - Return:

Used to return to the previous menu.

BUTTON (P7) - Set/menu:

This button allows access to the user and technical parameters menu. After entering the menu, use this button to access the next sub-menu or set the value and move to the next menu item when in programming mode.

EMERGENCY PANEL

KEY (T1) ON/OFF: Manually turns the stove on and off

KEY (T2) +: power increase

KEY (T3) -: power decrease

LED (L1) Confirms signal reception

LED (L2) indicates the alarm status of the stove. Reset with ON/OFF button

REMOTE CONTROL ASSOCIATION

The stove must be powered by the mains, then simultaneously press keys (P1) and (P2) for about 3-4 seconds until the text SELECT UNIT appears; select the transmission unit (1-2-3...) with keys (P1) and (P2). Remote controls are supplied with transmission unit set to 0 (default unit). Press and hold the ON/OFF button (P3) for approximately 3 seconds to save. The remote control is ready for normal operation.



These operations must be carried out within 30 seconds of feeding the stove.

SEARCH FIELD

This message appears when the remote control is not communicating with the emergency panel. Check that the board is powered or that the emergency panel (receiver) is well connected.

MENU

Press the P7 key to access the menu. The menu includes several items and levels to access settings and control board programming. The menu items providing access to the technical setting are protected by access code.

USER MENU

The table below briefly describes the menu structure, focusing in particular on the functions available to users.

SET CLOCK menu

Use this function to set current time and date. The control board is equipped with a lithium battery guaranteeing the time clock 3/5 year-long autonomy. Set the current date by pressing OK and the respective arrows to increase or decrease the selected values.

SET CHRONO menu

Submenu – Enable chrono:

The menu shown on the "Enable chrono" display allows overall enabling and disabling of all the chronothermostat functions.

Submenu – Day chrono:

The daily programmable chrono-thermostat functions can be enabled, disabled and set. It is possible to set two operating ranges. The OFF setting tells the clock to ignore the command.

Submenu – Weekly chrono:

The "weekly chrono" menu allows enabling/disabling and setting of the weekly chronothermostat functions. The weekly programming function features 4 independent programmes. Moreover, if the time is set to OFF, the time clock ignores the corresponding control.

Submenu – Week End Chrono:

It is used to enable/disable and to set the chronothermostat functions on weekends (days 6 and 7, i.e. Saturday and Sunday).

SELECT LANGUAGE menu

Use this command to select one of the languages available.

SELECT PROBE menu

Use this command to select the internal one or that of the remote control

FAN MODE menu

In this menu it is possible to enable or disable room ventilation at powers P1, P2 and P3 in order to guarantee the greatest possible comfort.

STAND-BY menu

In this menu it is possible to activate or deactivate the automatic stand-by of the stove. When selected, if the conditions have all been met, the stove will enter MODULATE – OK STDBY. This state lasts for 10 minutes. Once this time has elapsed, the stove will switch off and then switch on again when required.

BUZZER MODE menu

It is used to enable or disable the buzzer board.

INITIAL LOAD menu

This function is only available when the stove is OFF and is used to load the auger when the stove is started for the first time when the pellet hopper is empty. After selecting the menu, press P1. The exhaust blower switches on at the maximum speed and the auger tube (auger tube LED on) starts working. They will switch off once the period of time indicated on the display has elapsed or after pressing the P3 button.

STOVE STATUS menu

Enter the STOVE STATUS menu, after pressing the P4 button, the display scrolls the status of a number of variables during operation of the stove at work.

TECHNICAL menu

This menu item is reserved for the stove installer.

PELLET TYPE menu

Use buttons P1 and P2 to change the pellet feed percentage with a value of max +9 and min -9. Each step increases or decreases the total auger period by 3% compared to the default period.

CHIMNEY TYPE menu

Use buttons P1 and P2 to change the smoke fan speed percentage with a value of max +9 and min -9. Each step increases or decreases all smoke fan speeds by 5%.

2.2 USER FUNCTIONS

Standard functioning of a control board properly installed on an air stove is described below with reference to the functions available to users.

Stove ignition

Hold P3 button down for a few seconds to switch on the stove. The display shows "START or CHECK UP" when the ignition is switched on. During this phase, the stove goes into pre-heating status; both the glow plug (as indicated by the corresponding glow plug LED) and the exhaust blower switch on. Any problem detected during the switching-on phase is indicated on the display and the stove goes into alarm status.

Loading with Pellets

After approximately 1 minute the pellet loading phase begins and the message "Load Pellets" appears on the display. During the initial phase, the auger tube loads the pellets into the burn pot for a fixed time. In the second phase the auger tube turns off, while the speed of the fumes and the glow plug remain in the previous state. If ignition does not occur after this phase, the auger tube is switched on again and the glow plug remains on.

Fire present

Once the flue gas temperature has reached and exceeded a pre-set threshold, the stove goes into the ignition mode and the message "FIRE PRESENT or STABILISATION" appears on the display. The speed of the fumes is fixed, the auger tube turns on for a fixed time and the glow plug is turned off. Any problem during this phase will cause the control board to stop and the stove to go into error state.

Stove operational

After the temperature of the fumes has reached and exceeded a given value and has maintained it for at least a predetermined time, the stove goes into work mode which is the normal working mode. The upper display shows the time and the room temperature and the lower one the set power and the power in which the stove is found. The heat output can be set by pressing the P2 key and the room temperature can be set by pressing the P1 button. If the fume temperature reaches a certain set threshold, the air exchanger fan turns on. After this phase, the stove cleans the burn pot. The word "FIRE PIT CLEANING" scrolls on the display, the auger is on and the fumes fan is on. Once the set period of time has elapsed, the stove goes back to the working mode.

Changing set heat output

During normal stove operation (Work), the heat output can be changed by using the P5 button. Press the P2 button again to increase the heat output and the P1 button to decrease it. The display will show the set heat output. To exit the set, wait 5 seconds without performing keyboard operations, or press P3 or P4.

Changing set room temperature

Press the P4 button to change the set room temperature. The display shows the set room temperature (SET temperature value). Press the P1 (increase) and P2 (decrease) buttons to modify the temperature. The value is saved after approx. 5 seconds and the display goes back to normal. Otherwise, press P3 or P4 to exit.

Changing the ventilation speed

It is possible to exclude ventilation from the FAN MODE menu at powers P1, P2, P3. If the stove is at Power 4 or P5, room ventilation is always present.

External thermostat/chrono-thermostat use

If an external room thermostat is to be used, make the connection to the TERM terminals

- External thermostat
- External chrono-thermostat

The stove external thermostat is enabled when the contact is closed with stove on.

Room temperature reaches the set value (SET temperature)

When the set room temperature value is reached, the stove heat output is automatically set to the minimum value. During this phase, the display shows the message "MODULATION". If room temperature falls below the set value (Set temperature value), the stove will go back to the "Work" mode and to the previously set heat output (Set heat output). If there is an external thermostat and the room temperature has been set to T-e, if the thermostat is open it will begin modulation and if closed, it will return to the heat output set.

Stand-by

When enabled in the menu, the Stand-by function allows the stove to be switched off after complying with the following conditions. It is enabled if, for a certain time, the room temperature is higher than the set temperature (Room set) plus a pre-set temperature delta. "OK ST-BY" appears on the display. At the end of the given time, the message "WAIT FOR COOLING" appears on the display. In this state, the stove has an auger tube closed (auger tube off) and the heat exchanger switches off. When the flue gas temperature reaches a given threshold, the stove enters stand-by mode and the wording "Stand-By" scrolls across the display. The auger, heat exchanger and exhaust blower are all switched off. The stove restarts if the room temperature falls below the set temperature (Room set) minus the threshold given by the temperature delta.

Stove switch off

Hold P3 button down to switch off the stove. The message "SWITCH OFF" appears on the display. The auger tube motor stops (the auger tube LED is off) and the exhaust blower speed is pre-set. The fan of the exchanger (exchanger LED on) remains active until the fume temperature falls below a pre-set value. After a certain time, if the temperature of the fumes is below a given threshold, the stove switches off, displaying the message "SPENTO/OFF".

2.3 ALARMS

In the event that an operating fault occurs, the board intervenes and signals the occurrence of an irregularity, switching on the alarm LED (alarm LED on) and emitting acoustic signals. The possible alarm messages are listed below:

Display shows	Cause
POWER OUTAGE ALARM	Absence of mains voltage
FUME PROBE ALARM	Fume probe faulty
HOT FUMES / FUMES TEMP. ALARM	Fume overheating
ALARM NO ENCODER / EXTRACT.-FAULTY / FUME EXTRACT.	Exhaust blower fault, not working
ALARM IGNITION FAILED / FAILED IGNIT. / NO IGNIT.	Stove does not ignite
PELLET VERIFICATION ALARM / NO PELLETS / PELLETS DEPLETED	Shutting down due to insufficient pellets
THERMAL SAFETY ALARM/ THERMOSTAT	Safety thermostat activated
NO DEPRESSION ALARM / PRESSURE SWITCH	Depressor activated
AUGER SAFETY ALARM	The auger tube turns continuously
INSUFFICIENT DRAW ALARM	Burn pot or air extraction pipe obstructed
CLEANER FAULT ALARM	Burn pot cleaner is blocked/Firebox door not shut correctly
AUGER TUBE ENCODER ALARM	The board does not read the auger tube encoder. No connection
AUGER TRIAC ALARM	The auger tube turns continuously
WATER PROBE ALARM	Water probe broken or short-circuited
HOT WATER ALARM	Stove water maximum threshold exceeded
WATER PRESSURE ALARM	Water pressure too low or too high
AIR PROBE ALARM	Air probe broken or short-circuited
TURBULATOR FAULT ALARM	The mechanism of the Turbulators is blocked

In case of alarm, the stove is immediately switched off.

Alarm status is reached after a given time, EXCEPT BLACK-OUT ALARM, and can be reset by prolonged pressure on ON/OFF. Whenever an alarm is cleared, the stove starts a switching-off phase for safety reasons. The alarm LED (alarm LED on) will remain on and the buzzer, if enabled, will sound intermittently during the entire alarm phase. Should the alarm not be cleared, the stove will in any case be switched off and the alarm message will remain on the display.

Black-out Alarm

If a power failure occurs for a certain period of time, the device will go into a BLACK-OUT alarm when the power comes back on. It is necessary to wait for the stove to cool down and then turn it back on.

Ignition Failed Alarm The alarm is triggered in the event of ignition phase fault. This happens if after a pre-set time, the temperature of the fumes does not exceed the threshold set by parameters.	⚠ ATTENTION Clean the brazier of the unburnt pellets.
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Safety thermostat

If the general safety thermostat detects a water temperature exceeding the trigger threshold, it immediately switches off the auger tube (to which it is connected in series), while the controller acquires this change in status. The THERMIC SEC. message is displayed and the system is shut down. Unscrew the black cap on the back of the stove and press the button to reset the contact.

Negative pressure alarm

This alarm occurs if:

- The flue pipe is non-compliant: the pipe must keep the minimum pressure in Pascals as required by the manufacturer (see TECHNICAL DATA) at both minimum and maximum heat output.
- The flue pipe or combustion air intake is obstructed.
- The combustion chamber door and/or pallet hopper door are open.
- Excessive dirt inside fume circulation area: empty the ash that is deposited in the part adjacent to the ash drawer compartment.

SERVICE MESSAGE

The stove will display the message SERVICE (or SER) during operation depending on the number of hours of operation. The wording does not lock operation of the stove, but non-routine maintenance will be required by an authorised technician, who will reset the service hours.

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