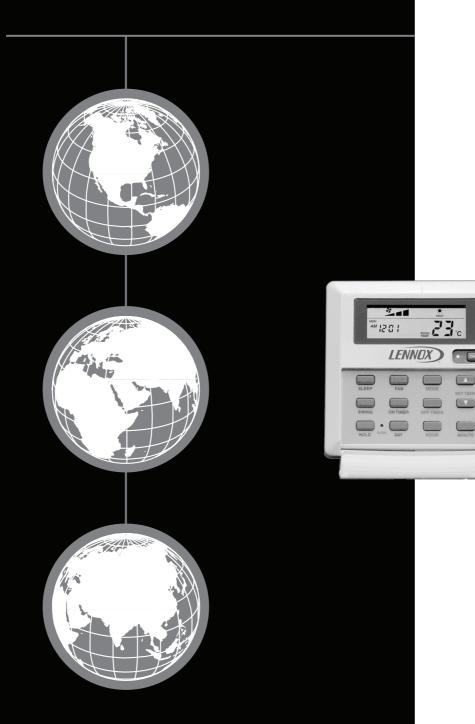


USER MANUAL



PROVIDING OF SOLUTIONS

CONTROL OLT-1X

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Your new LENNOX Thermostat has been designed to provide accurate control and display of room temperature. In addition, it will also display all relevant information pertaining to your system.

The clearly marked buttons and informative display make it extremely easy to understand and simple to use. Please take a few moments to read the brief instructions and familiarise yourself with the various functions in order to obtain maximum benefit from this truly unique electronic control.

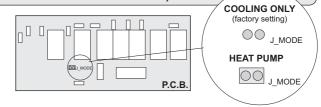
This electronic control is organised into two integrated systems: a terminal, installed in the room, and a power board for managing the actuators in the electrical panel. The terminal is connected to the power board using a four-lead cable, thus greatly simplifying installation, with shield cable (supplied with the unit).



Prior of making the electrical connections, set the switch for heat pump unit or for cooling only unit.

NOT USED FOR CASSETTE UNITS. (See documentation for the unit)

This unit is valid for operating as a cold only or heat pump application. The unit should be configured prior to making the electrical connections, by setting the configuration switch as follows:



Sub-base

Terminal-Thermostat

TERMINAL-THERMOSTAT INSTALLATION

For correct installation the following warnings must be heeded:

- Always disconnect the power supply before performing any operations on the board during assembly, maintenance or replacement.
- The terminal should be fastened to the wall vertically, allowing for air to circulate through the instrument's vent-holes, in order to detect the correct ambient temperature
- Avoid places where the measurement of the ambient temperature by the internal sensor may be altered, such as outside walls, near doors leading outside, in direct sunlight, etc.

INSTALLATION GUIDE FOR CONTROL CABLE (TO AVOID INTERFERENCES):

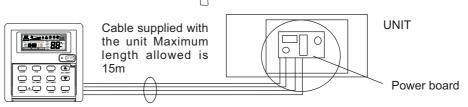


- Use the screened 15 m cable supplied with terminal (3 wires + screen).
- Wire the cable separated from electrical power wiring by a physical distance of 500 mm.
- Wire the cable separated from halogen lamps/fluorescent tube lighting... by a physical distance of 500 mm.
- Wire the cable separated from radio frequency sources such as radio transmitter... at least 500 mm.
- NEVER WIND THE REMAINING CABLE AROUND, CUT THE CABLE BY THE TERMINAL END.

TERMINAL INSTALLATION

The installation procedure is as following:

- 1° To detach the front panel of the terminal from the rear shell, insert a flat-head screwdriver in the slot in the centre of the bottom of the box and release the locking flap.
- 2° Raise the front panel using a "hinge" movement, using the upper edge of the instrument as the pivot and raising the lower edge.
- 3° To fasten the rear part of the box to the wall, use the mounting holes on the shell.
- 4° Connect the cables to the terminals on the electrical box, as indicated in electrical diagram.



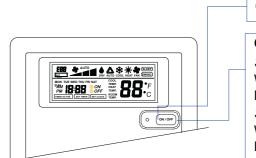
5° Finally, close the instrument, moving the front panel onto the rear shell with a "hinge" movement, in the opposite way as used for opening. First the long side of the front panel near the display is snapped onto the rear shell, then the opposite side, being careful that the terminal pins slide into their corresponding female terminals.

USER INTERFACE DESCRIPTION Sleep Display Fan Speed Display Key Lock Display Display the sleep / energy Displays the fan speed Display indicates when key saving status. setting. lock function is activated. (Auto/High/Medium/Low) **Operation Mode Swing Display** Alarm indicator **Display** Display the air swing status, (if incorporated on the unit) Displays the current **Current Time** mode of operation. **Display** Display the current time °C or °F Display Display the temperature Start / Stop in °C or °F. Time Display Display the start and stop time **Set Temperature** AM 18:88 9 ON PM 18:88 9 OFF programmed. or Room Temperature Display Display the set or room temperature. **On/Off Status Lamp Display** Indicates that a programming is setting Indicates we are setting the clock Sleep button Fan button Mode button Press SLEEP button to Press FAN button to activate the sleep or energy Press MODE button to select Auto, High, saving mode. select operation mode from Cool, Heat, Medium or Low fan speed. Auto, Dry and Fan. **Swing button** Press SWING button to Temperature button activate the air sweep Pressing them the display function. shows the set point or the room temperature, and with them we can select the **Hold button** desired temperature (set-To resume the timer point) setting after the timer

has been placed on hold Minute button When the control is in set clock Clock or set timer mode, pressing the To adjust the actual MINUTE button will change the real time set minute. Hour button Day button When the control is in set When the control is in set clock ON TIMER/OFF TIMER button clock or set timer mode. or set timer mode, pressing the pressing the DAY button will Used to adjust an ON/OFF TIMER to the HOUR button will change the set change the set day.

SELECTING UNIT OPERATING MODE AND SET-POINT TEMPERATURE

A) HOW TO TURN ON/OFF THE UNIT



Operating Lamp

On / Off

Starting operation:

When the unit is off, press the ON/OFF button. The operation LED lights and the unit will be turned on.

Stopping operation:

When the unit is on, press the ON/OFF button. The operation LED is extinguished and controls are turned off.

B) SELECTING THE UNIT'S OPERATING MODE

The operating mode is always indicated on the display

Pressing the **mode** button repeatedly you can change the unit operating mode, and choose the one desired:



COOL: The unit is working on cooling mode, when compressor is working *\$\\$\$ symbol will appear on the display

HEAT: The unit is working on heating mode, when compressor or electrical heater is working → symbol will appear on the display

AUTO: The system automatically switches from cooling to heating mode, depending on the position of the ambient temperature in respect to the set-point, the symbol \triangle will appear on the display and also the symbols + or + depends on the operating mode selected

DRY: The symbol **\end{a}** will appear on the display

FAN: Fan control only; when fan is working the symbol 🦸 will appear

C) SELECTING DESIRED ROOM TEMPERATURE (SET-POINT)

If unit is working, the *or v* buttons allow to select the desired room temperature (set-point)

When the button ♠ or ▼ are pressed one, the display will show the selected desired temperature (set-point) during 5 seconds, after that the display will show the room temperature

The button allow the increase of the current set-point by 1°C/1°F

The button ▼ allow the decrease of the current set-point by 1°C/1°F

The temperature range is from 16°C/60°F to 30°C/85°F

To change from °C to °F or vice versa, press the buttons ▲ y ▼ at the same time

NOTE: If we have selected FAN as the unit operating mode, the SET POINT can not be modified

D) SELECTING THE FAN OPERATING MODE

To be able to select a fan operating mode, cool, heat or auto unit's operating mode must be selected.

If DRY mode have been selected the fan operating mode can not be selected.

If Fan mode have been selected the automatic fan operating mode can not be selected

Pressing $\overline{\ }_{_{\text{\tiny FAN}}}$ button scrolls through the following modes, and we can selected the one desired



AUTOMATIC: The fan selects the most appropriated fan speed

NOTE: Even when a low speed have been selected on heating mode, the unit self protective changing automatically to a higher fan speed, when the unit is working at high temperatures.

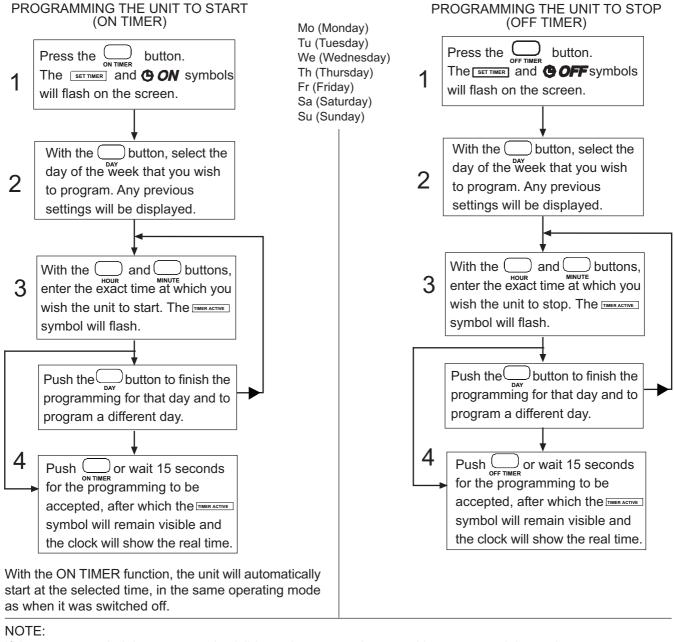
SETTING THE TIMER

Our electronic climate control with timer operation is a programmable terminal.

With this terminal you can program the unit to stop and start on each of the 7 days of the week.

The ON TIMER and OFF TIMER functions may be combined.

To set the timer, follow the instructions given below:



If the merative symbol does not remain visible on the screen, the control has not stored the settings.

HOW TO DEACTIVATE THE ON TIMER / OFF TIMER FUNCTION

To deactivate the settings and store them for future use:

Press the button for 3 seconds, until the meracrive indication disappears.

To activate them once again, press the button for 3 seconds once again, until the meracrive indication appears

HOW TO DELETE THE ON TIMER / OFF TIMER FUNCTION

Push the button.

Push the $\bigcap_{\underline{p}\underline{AY}}$ button and select the day of the week that you wish to delete from the settings.

Push the push the button as many times as necessary until -:-- appears, showing that the setting for that day has been deleted.

O	Р	F	R	Δ-	ΤI	N	G
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HOUR ADJUSTMENT

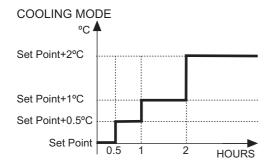
Press button CLOCK once to set the clock mode, the indication set clock will appear on the display blinking Press button repeatedly, scrolls through the following days of the week, and we can selected the one desired Press button to set the hour

Press button to set the minutes -MON-TUE WED THU FRI SAT SUN Press button cLock to accept

The unit is supplied with a lithium battery acting as a power back up in the case of a power failure. The real time clock and other settings are maintained during the power failure and reset when power is restored.

SLEEP

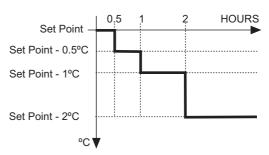
, we activate this function. It is registered on the display with the symbol $\mbox{\cite{supp}}$ Pressing the button(



SLEEP FUNCTION ON

Increase the set point temperature as the above drawing shows

HEATING MODE



SLEEP FUNCTION ON

Decrease the set point temperature as the above drawing shows

FUNCTION SWING

Press button , the function swing gets activated, the symbol will appear on the LCD display

KEY LOCK

This feature protects the controls from being tampered with by children or unauthorized persons. To activate, press the \bigcirc button three times consecutively, \bigcirc symbol will appear on the LCD display. During this time, only on/off button can be used.

To cancel this feature, press the button again three times consecutively. and the indication KEYLOCK will disappear on the display

ALARM CODES

The unit self-protect through safety devices, when any of these safety devices detect an anomaly, shown in the display in order to advise the installer.

E88

The activation of an alarm brings about:

- The display of the alarm code on the display.
- The blocking of some or all the outputs, depending on the type of alarm.

VIS (Visualization): Indicates the type of alarm shown on the display.

RE (Reset): Type of reset:

AUT: AUTOMATIC RESET: Some alarms are automatically reset, when the cause is no longer present, they disappear from the display.

MAN: MANUAL RESET: Press "ON/OFF" button.

VIS.	DESCRIPTION	EFFECTS	ACTION	RE
EO I	Ambient temperature regulation Unit will probe error.		Check connections between unit and thermostat.	AUT
E02	Indoor coil temperature probe error. Compressor will stop		Check connections of indoor coil temperature probe.	AUT
E04	Compressor overload. During heating cycle the indoor coil temperature has been too high.	Compressor will stop	These protections are automatic reset for the first time. To reset for second time press button "ON/OFF" until alarm disappears. If the alarm shows up again, check: Connections of indoor coil temperature probe. Indoor unit works properly. Clean air filters.	AUT/ MAN
E05	Overflow of water condensing. The float switch has detected water overflow. Compressor will stop. Condensate pump working.		These protections are automatic reset, the alarm resets automatically when there is no more water. If the alarm shows again, check the water drain, and the connections of float switch.	AUT

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SX	Short circuited temperature probe.	Unit will stop	Check probe connection.	AUT
₽P	Temperature probe open.	Unit will stop	Check probe connection.	AUT

WARNINGS

VIS.	DESCRIPTION	EFFECTS
LB	Probe temperature lower than 8°C.	The unit is working, and the warning disappears when temperature is
XI	Probe temperature higher than 37°C.	petween 8°C and 37°C.

UNIT PROTECTION DEVICES

AGAINST FREQUENT COMPRESSOR CYCLING

When COOL/HEAT/AUTOMATIC is selected, the start up of the unit will be delayed for 3 minutes, to protect the unit against frequent compressor cycling.

AIR PREHEATING

On heat mode, the indoor unit fan will not start or will start at low speed, to prevent from air cool feeling, until the indoor unit temperature reaches the set temperature then the unit will operate to the selected temperature.

DEFROST CYCLE

When the unit is operating on heating mode, the unit will do defrost to eliminate the ice that will produce the outdoor unit; on this cycle, the indoor unit fan switches off.

AUTO RESTART

If power failure occurs during operation, the unit will start in the same operation mode as before after power recovery.

FREEZE-UP PROTECTION

If the unit is operating on cooling only mode, and the indoor unit coil temperature is below a set value, the unit stops.

DETECTING BROKEN SENSOR

If the control system detects a sensor reading out of permissible deviation, the unit stops.



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