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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 two-lead cable, thus greatly simplifying installation.

(*)If a remote sensor is requested as an option, the terminal-thermostat can be installed in a different place from the room to be conditioned.

**IMPORTANT**

Since this type of control panel is factory-configured for each application, an identification code located on the control panel of the terminal itself has been given to each panel. **Any query or request for a replacement of the control panel must be accompanied by this identification code.**

**IDENTIFICATION CODE FOR THE TERMINAL-THERMOSTAT**

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.
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.

Terminal installation
The installation procedure is as following:
1º 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
2º Raise the front panel using a “hinge” movement, using the upper edge of the instrument as the pivot and raising the lower edge
3º To fasten the rear part of the box to the wall, place the hole in the centre of the box over the cables for the control of the instrument which come out of the wall. The placement of the mounting holes has been designed to allow the instrument to be fixed onto a box conforming to standards CEI C.431 - IEC 670. If this is not available, use the mounting holes on the shell as a guide for drilling holes into the wall and then use the screw and plug kit supplied.

The cables for connection to the power board must be kept separate from other cables, using an individual cable channel; and use shielded cables, with a cross-section of 1mm².

4º Connect the cables to the terminals on the rear shell of the box, as indicated in, and in electrical diagram.

When making the connection to the power board special attention must be paid to the polarity; the T+ terminal must be connected to the T+ terminal on the power board; similarly for the T- terminal (If the cables are connected in the opposite order the instrument will not be damaged).

5º 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

THE CONTROL IS ACTIVE 5 SECONDS AFTER THE UNIT POWER IS SWITCHED ON

FUNCTIONS OF THE BUTTONS

▲ AND ▼ BUTTONS
These are placed on the front panel of the instrument. These allow the immediate setting of the desired temperature (set-point), and with them the parameters could be modified.
While unit is ON:
If both button are pressed together for more than a second, the display will show up the software version for five seconds
If both button are pressed together for one second, the display will show up the set point in place of the room temperature.

SIDE BUTTONS
These buttons allow access to all the other functions of the control.
SELECTING UNIT OPERATING MODE AND SET-POINT TEMPERATURE

A) 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:

- **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 are 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.
- **FAN**: Fan control only; When fan is working the symbol will appear.
- **OFF**: The thermostat switches the unit off, the symbol appear on the display.

The operating mode selected is active 5 seconds from setting, when the respective sign stops flashing.

B) SELECTING DESIRED ROOM TEMPERATURE (SET-POINT)

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

The button allow the increase of the current set-point by 0.5°C

The button allow the decrease of the current set-point by 0.5°C

C) 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.

Pressing FAN button scrolls through the following modes: FAN CONSTANTLY ON, or AUTO

- **AUTO**: Fan on and off together with the compressor, the symbol lights up for 5 seconds.
- **FAN CONSTANTLY ON**: Fan is continuous ON, the symbol lights up for 5 seconds.
SELECTING THE TEMPERATURE  SET POINT CATEGORY

After COOL, HEAT or AUTO, operating mode have been selected, pressing set button select the set point category.

There are 3 possible set-point categories available

1. Comfort set-point (indicated by the symbol 🛋): 
   Is the reference room desired temperature (set-point)

2. Brief absence set-point (indicated by the symbol 🛋): 
   Typically used when the room is not occupied for a sort period of time

3. Night-time set-point (indicated by the symbol 🌙): 
   The room is occupied yet a lower level of comfort is required

The default set-point values for the various categories are:

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>SET COOL</th>
<th>SET HEAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>🛋 COMFORT</td>
<td>Desired room temperature (set-point 23°C)</td>
<td>Desired room temperature (set-point 23°C)</td>
</tr>
<tr>
<td>🛋 BRIEF</td>
<td>Increase 4°C the set point selected on comfort category</td>
<td>Decrease 4°C the set point selected on comfort category</td>
</tr>
<tr>
<td>🌙 NIGHT</td>
<td>Increase 2°C the set point selected on comfort category</td>
<td>Decrease 2°C the set point selected on comfort category</td>
</tr>
</tbody>
</table>

How to change the desired temperature (set-point) for the different categories?

Pressing the SET button in manual operating mode select comfort category 🛋. During the time the symbol is flashing and pressing the front button ▲ and ▼ changes the currently set-point used by the control. This is the set-point reference for the rest of the categories:
Following the same steps we can select the categories: brif absence 🛋 or night 🌙, and with the ▲ and ▼ buttons assign the value between 0°C to 10°C for each category, which means the degrees encrease or decrease from the comfort category set point.
CLOCK AND TIME BANDS  (AS AN OPTION)

This electronic control with clock function, is a programmable terminal (programming the time bands). With this terminal set-point desired can be set for 24 hours a day, seven days a week. This programmable operation is optional, and must be specified at the time of order.

Proceed as follow to program the time bands:

1° Set the actual time, to make one, when terminal is installed for the first time.

There are 6 possible time bands, indicated respectively by the letters t1-t2-t3-t4-t5-t6. The bands may be at different times for each day of the week and at different set-points, yet must be chosen from the three categories previously programmed.

EXAMPLE:
The table below shows an example of time bands clock for a week.

<table>
<thead>
<tr>
<th></th>
<th>Mo (Monday)</th>
<th>Tu (Tuesday)</th>
<th>We (Wednesday)</th>
<th>Th (Thursday)</th>
<th>Fr (Friday)</th>
<th>Sa (Saturday)</th>
<th>Su (Sunday)</th>
</tr>
</thead>
<tbody>
<tr>
<td>t1</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
<td>8:00</td>
</tr>
<tr>
<td>t2</td>
<td>14:00</td>
<td>14:00</td>
<td>14:00</td>
<td>14:00</td>
<td>14:00</td>
<td>22:00</td>
<td>22:00</td>
</tr>
<tr>
<td>t3</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>t4</td>
<td>18:00</td>
<td>18:00</td>
<td>18:00</td>
<td>18:00</td>
<td>18:00</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>t5</td>
<td>20:00</td>
<td>20:00</td>
<td>20:00</td>
<td>20:00</td>
<td>20:00</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>t6</td>
<td>22:00</td>
<td>22:00</td>
<td></td>
<td>22:00</td>
<td>22:00</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

Using the table below, to design your own programming schedule.
CLOCK AND TIME BANDS PROGRAMMING

PROGRAMMING PROCESS

To set a program, Press clock for 5 seconds, t1 will show on the display.

Mo (Monday)
Tu (Tuesday)
We (Wednesday)
Th (Thursday)
Fr (Friday)
Sa (Saturday)
Su (Sunday)

The display shows

Pressing ▲ and ▼ buttons

Use ▲ and ▼ buttons to scroll to the other days, which flash in turn, thus extending same program to the selected days.

Pressing ▲ and ▼ buttons

Other time bands for the same day are scrolled by pressing clock

You have already programmed the 6 time band for the current day

Stop the programming for that day, lets you start programming another.

The time interval identified by time current band is shown on the display using the clock symbol, divided into 1-hour sections. Thus, the time band from 12 to 7 o'clock is indicated as follows
CLOCK AND TIME BANDS PROGRAMMING

After all time bands have been programed and unit it is working on any of them, there are two ways to change the desired set-point for the time-band currently in use:

A) Change the desired set-point of the current time-band for three hours.

The desired set-point can be changed, using the ▼ and ▲ buttons, and will remain for three hours. Press resume button to return to time band operation before the three hours elapse.

B) Change the desired set-point for an unlimited period

After three hours, the controller returns to the programmed settings.
All modifications on the operating unit parameters, must be carried out by qualified personnel. Incorrect programming of the parameters may cause damage to the unit. And consequently the loss of guarantee of the unit.

Proceed as follow, to reach to the operating parameters of the unit:

Pressing simultaneous both set and hold buttons, the display shows the first of the unit operating parameters.

The parameters are scrolled using the front buttons.

The modifications are accepted by pressing set again while they are flashing.

Parameters can be changed while they are flashing.

To continue modifying other operating parameters follow steps 2-3-4.

To exit programming mode and accept the modifications to the parameters, press the hold button.

To exit programming mode, and NOT accept the modifications to the parameters, press the resume button, or wait for 1 minute (the final 15 seconds are signalled by the flashing of the characters on the display).
PROGRAMMING

The table below gives the following information for each parameter.

COD: The code which appears on the display
The field variation for the parameters,

- MIN: Maximum value for the parameter
- MAX: Minimum value for the parameter

UNIT: The units of measure used.

- C=Centigrade, F=Fahrenheit, s= seconds, min=minutes, h=hours, Khrs=hoursx1000

VAR.: Minimum variation allowed
DEF: The default value, factory set.

<table>
<thead>
<tr>
<th>COD</th>
<th>DESCRIPTION</th>
<th>VALUES</th>
<th>MIN</th>
<th>MAX</th>
<th>UNIT</th>
<th>VAR.</th>
<th>DEF</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4</td>
<td>Regulation probe calibration. Value to be added to/subtracted from the value measured by the temperature probe used for the control (sensor)</td>
<td></td>
<td>-12</td>
<td>12</td>
<td>C/F</td>
<td>0.5</td>
<td>0</td>
</tr>
<tr>
<td>S6</td>
<td>Input digital filter, filter for analoge inputs, S6=1 the faster.</td>
<td></td>
<td>1</td>
<td>15</td>
<td>---</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>S7</td>
<td>Unit for measure temperature</td>
<td></td>
<td>0</td>
<td>1</td>
<td>---</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>S7=0 the temperature is visualized on °C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S7=1 the temperature is visualized °F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>S8</td>
<td>Indicates the presence of an external or internal temperature probe</td>
<td></td>
<td>0</td>
<td>1</td>
<td>---</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>R1</td>
<td>Shows the current value on which temperature regulation is based (set-point)</td>
<td></td>
<td>---</td>
<td>---</td>
<td>C</td>
<td>---</td>
<td>23</td>
</tr>
<tr>
<td>R3</td>
<td>Temperature differential cool/heat</td>
<td></td>
<td>2.0</td>
<td>20</td>
<td>C/F</td>
<td>0.5/1</td>
<td>1</td>
</tr>
<tr>
<td>R4</td>
<td>Temperature dead zone</td>
<td></td>
<td>0</td>
<td>10</td>
<td>C/F</td>
<td>0.5/1</td>
<td>0.5</td>
</tr>
<tr>
<td>R8</td>
<td>Auxiliary element set-point offset</td>
<td></td>
<td>0</td>
<td>50</td>
<td>C/F</td>
<td>0.5/1</td>
<td>2</td>
</tr>
<tr>
<td>R9</td>
<td>Auxiliary element differential</td>
<td></td>
<td>1</td>
<td>22</td>
<td>C/F</td>
<td>0.5/1</td>
<td>1</td>
</tr>
</tbody>
</table>

HOW REGULATION PARAMETERS WORK:
Through R1, R3, R4, R8, R9 parameters we set the temperature for which compressor and electrical heater will turn on, as figure shows.

MODIFICATION SET POINT VALUE
To modify the set-point value, see page 5 on this manual
## PROGRAMMING

<table>
<thead>
<tr>
<th>COD</th>
<th>DESCRIPTION</th>
<th>VALUES</th>
<th>UNIT</th>
<th>VAR.</th>
<th>DEF</th>
</tr>
</thead>
<tbody>
<tr>
<td>C5</td>
<td>Hour-counter compressor. Indicates the number of compressor operating hours. When 19.900 working hours have been reached, the parameter starts counting again.</td>
<td>0</td>
<td>19,9</td>
<td>Khrs</td>
<td>---</td>
</tr>
<tr>
<td>F3</td>
<td>Hour-counter inner fan. Indicates the number of inner fan operating hours. When 19.900 working hours have been reached, the parameter starts counting again.</td>
<td>0</td>
<td>19,9</td>
<td>Khrs</td>
<td>---</td>
</tr>
<tr>
<td>F4</td>
<td>Supply fan operating hours threshold. Establishes the number of indoor fan operating hours beyond which the maintenance intervention signal (alarm thf) is activated.</td>
<td>0</td>
<td>10,0</td>
<td>---</td>
<td>0,1</td>
</tr>
</tbody>
</table>

Parameters F3/F4 allow setting a number of inner fan operating hours after which the display shows the alarm code thf, which means air filter should be changed or cleaned. Therefore parameter F4 should be changed, establishing the number of fan operating hours X1000 beyond which the maintenance signal thf is activated.

| H7  | Establishes what is displayed on the field in the top right of the display. H7= 1 Shows the value of the current set-point. H7= 2 Shows outdoor coil temperature. | 1      | 2    | ---  | 1   |
| H9  | Only for terminal with clock (as an option). Establishes the display format. H9 =0 THE FORMAT IS 24 HOUR CLOCK. H9 =1 THE FORMAT IS 12 HOUR CLOCK. | 0      | 1    | ---  | 1   |

---

### Format

- **Format 24 hours**: 17:00
- **Format 12 hours**: 5:00 AM/PM
DEFROST MANAGEMENT

The defrost process is activated during heating mode in heat pump units, when the outside temperature is low and the outdoor coil could become frozen.
To melt the ice the defrost function will switch the unit to cooling operation for a short period.
Note: During defrost function, if indoor fan is working, cold air will be supplied into the room. Using S8 parameter, the indoor fan can be switched off during the defrost process.

<table>
<thead>
<tr>
<th>COD</th>
<th>DESCRIPTION</th>
<th>VALUES</th>
</tr>
</thead>
</table>
| d8  | Establishes the enabling of the indoor fan during the defrost cycle.  
    d8=0 Disabled (Fan off)  
    d8=1 Enabled (Fan on) | 0 | 1 | --- | 1 | 0/1 |
| d13 | d13=0 Normal operation for defrost function.  
    d13=1 Force defrost function to start, defrost function will last for 10 minutes.  
    Any time we turn on to normal operation, set d13 parameter to 0 | 0 | 1 | --- | 1 | 0 |

Factory setting:
If the unit is not supplied with electrical heater (option), inner fan will turn on during defrost cycle in this case factory setting is d8=0.
If the unit is supplied with electrical heater (option), inner fan will not turn on during defrost cycle in this case factory setting is d8=1.
Running of electrical heater is joined with inner fan operation.

DEFROST CYCLE SEQUENCE:

START DEFROST CYCLE
The defrost cycle begins when outdoor probe temperature is below -3°C more than 1 minute.

END DEFROST CYCLE
The defrost cycle ends when outdoor probe temperature reaches 35°C

DELAY BETWEEN TWO DEFROST REQUESTS
Time between two defrost cycles is calculated from the end of one to the begining of next, it could be from 18 to 45 minutes, depending on external conditions.

MAXIMUM DEFROST DURATION
10 minutes is the maximum time defrost cycle will be on
**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 advice the installer.

The activation of an alarm brings about:
- The display of the alarm code and the letters "AL", alternating with the display of the temperature
- The blocking of some or all the outputs, depending on the type of alarm.

When more than one alarm is activated at the same time, the display automatically scrolls through the active alarms.

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

**RE** (Reset) : Type of reset: To enable the alarms:

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

**MAN: MANUAL RESET**: Pressing RESUME button, for more than 5 seconds.

If the alarm conditions have been removed, the instrument returns to the normal operation and the alarm relay is de-energised. If on the other hand, the alarm conditions persist, then call for technical service.

<table>
<thead>
<tr>
<th>VIS</th>
<th>DESCRIPTION</th>
<th>EFFECTS</th>
<th>ACTION</th>
<th>RE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR F</td>
<td>The number of operating hours of the supply fan exceeds the maintenance threshold set by parameter F4, air filter should be changed</td>
<td>Alarm visualization</td>
<td>To reset parameter F3, press the &quot;set&quot; button, simultaneously with ▲ and ▼ front buttons</td>
<td>MAN</td>
</tr>
<tr>
<td>HI T</td>
<td>Indicates that unit is working at high indoor temperatures</td>
<td>Alarm visualization</td>
<td>The unit can operate in this situation only for short periods of time. If this situation remains, turn off the unit.</td>
<td>MAN</td>
</tr>
<tr>
<td>LO T</td>
<td>Indicates that unit is working at low indoor temperatures</td>
<td>Alarm visualization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E ID</td>
<td>This alarm may indicate the following problems:</td>
<td>Unit will stop</td>
<td>Pressing the &quot;RESUME&quot; button for 5 seconds, until alarm disappears. If the alarm shows up again call for technical service.</td>
<td>MAN</td>
</tr>
<tr>
<td>th f</td>
<td>Alarm, indoor fan protection</td>
<td>Unit will stop</td>
<td>Pressing the &quot;RESUME&quot; button for 5 seconds, until alarm disappears. If the alarm shows up again call for technical service.</td>
<td>MAN</td>
</tr>
<tr>
<td>ES R</td>
<td>Terminal does not receive data communication from the power board</td>
<td>Unit will stop</td>
<td>Turn off power supply and turn on again. If the problem persists, call for technical service</td>
<td>AUT</td>
</tr>
<tr>
<td>ES T</td>
<td>Power board does not receive data communication from the terminal</td>
<td>Unit will stop</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E 1</td>
<td>Temperature regulation probe error</td>
<td>Unit will stop</td>
<td>Check the position of jumper J1, shown on page.15</td>
<td>AUT</td>
</tr>
<tr>
<td>E 3</td>
<td>Outdoor coil temperature probe error</td>
<td>Unit will stop</td>
<td>Check probe connections. Call for technical service.</td>
<td>AUT</td>
</tr>
<tr>
<td>E DF</td>
<td>The defrost process has exceeded the maximum time specified.</td>
<td>Alarm visualization</td>
<td>The unit has an operating problem, call for technical service.</td>
<td>AUT</td>
</tr>
<tr>
<td>L OP</td>
<td>Low pressure protection</td>
<td>Unit will stop</td>
<td>When the alarm shows continuously, call for technical service.</td>
<td>MAN</td>
</tr>
</tbody>
</table>
REMOTE SENSORS (AS AN OPTION)

As an option, there are available two types of remote sensors:

- **REMOTE DUCT SENSOR**: The sensor should be located at the return air duct, recording the room temperature continuously.
- **REMOTE AMBIENT SENSOR**: The sensor should be located at the room which has to be conditioned

Both should be used when the terminal-thermostat can be located on a position where, the room temperature could not be measured with accuracy. Example: High ceiling rooms, or terminal-thermostat on a place different from the room to be conditioned.

To install them proceed as follow:

**STEP 1:**
Connect the probe to AVSS y B1 terminal located on the sub-base of the terminal-thermostat.

**STEP 2:**
Move the jumper J1, located on the power board of the terminal-thermostat, follow the electrical diagram supplied with the unit.

**STEP 3:**
Change parameter S8 to 1.

**STEP 4:**
(Only for the optional remote duct sensor)
Select CONT as the fan operating mode, in order that the room temperature will be detected continuously, the display shows the symbol. See page 5 of this manual to select the fan operating mode.
Power supply: 24V ac+10%-15%  50/60Hz
- The board features a signalling green LED which flashes when unit is electrically supplied.
- The centre of the board also houses a jumper J3, which must be setted on the position showed in the electrical diagram supplied with the unit (between ID COM and INT).
  When the jumper is positioned in any other position, the display shows several alarms, check this jumper when this is repeated.
- The control features a minimum run timer, which ensures that once started in heating or cooling, the compressor (and other associated components) remain running for a minimum of 5 minutes. The unit will not respond to a change in mode for this period of time. This prevents premature wear of components. Please bear this in mind when carrying out maintenance to the unit.
Standard Guidelines to Lennox Refac equipment

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We reserve the right to modify our products without notice without obligation to modify previously supplied goods.

These operating instructions contain useful and important information for the smooth operation and maintenance of your equipment.

The instructions also include guidelines on how to avoid accidents and serious damage before commissioning the equipment and during its operation and how to ensure smooth and fault-free operation. Read the operating instructions carefully before starting the equipment, familiarise yourself with the equipment and handling of the installation and carefully follow the instructions. It is very important to be properly trained in handling the equipment. These operating instructions must be kept in a safe place near the equipment.

Like most equipment, the unit requires regular maintenance. This section concerns the maintenance personnel and management.
If you have any queries or would like to receive further information on any aspect relating to your equipment, do not hesitate to contact us.