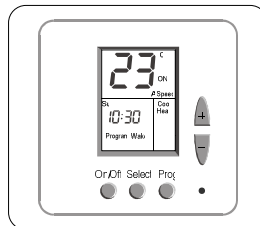


Installation

The ETN24 is designed for wall mounting in the room to be controlled. It should be located where the occupant can easily read the LCD display and use the controls. If the built-in temperature sensor is being used to measure room temperature, the module should be placed where the temperature is representative of the general room conditions. Cold or warm air draughts, radiant heat and direct sunlight should be avoided.

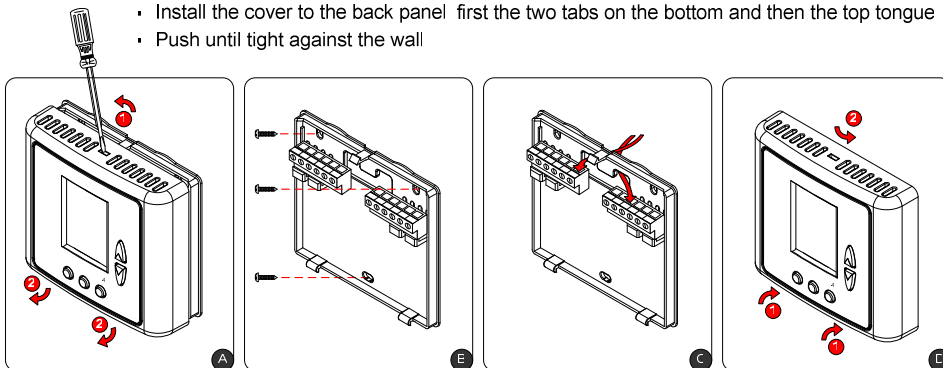


General points to follow:

- Disconnect power to the main board before installing the unit
- The unit should not be installed on an outside wall or where there is an air draft
- The unit must not be exposed to a direct sunlight
- The standard height to install this unit is 1.5 meter (5 feet) from the floor

Installation procedure:

- Separate the front panel from back panel by pressing the tongue located in the top of the unit and pull the back panel out
- Line the back panel up against the wall or flat surface. Install three screws as required
- Make electrical connections as shown on enclosed electrical wiring diagram
 - Install the cover to the back panel: first the two tabs on the bottom and then the top tongue
 - Push until tight against the wall

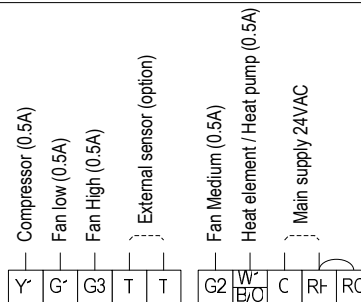


Wiring

Before connecting or disconnecting any wires, ensure that all power supplies have been switched off and all wires are potential-free to prevent equipment damage and avoid electrical shock.

All wiring to the thermostat is low (safe) voltage and must be separated from power line voltage wiring.

Do not run wiring close to transformers or high frequency generating equipment. Complete and verify all wiring connections before applying power to the controller to which the module is connected.



RC-R+ - When using one transformer, RC, RH terminals must be shorted.

ETN24-SUPER-FP-PROG-EU-C
Owner's manual & Technician Settings

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DIP Switch and Jumpers Configuration

Default DIP switch position



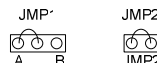
The DIP Switch is located on the top of the back side of the thermostat (above the connectors).

Switch	Internal/External Sensor		HP		HC		Time delay for compressor	
	Internal sensor	External sensor	Heat Pump in heat "B"	Heat Pump in cool "O"	Oil/Gas heat	Electric heat	No delay	3 Minutes
1	ON*	OFF	X	X	X	X	X	X
2	X	X	ON		OFF*		X	X
3	X	X	ON	OFF	ON	OFF*	X	X
4	X	X	X	X	X	X	ON	OFF*
5	OFF*	ON	X	X	X	X	X	X
6	ON*	OFF	X	X	X	X	X	X

*Default

For **complete reset of the unit** use **JMP1** (3 pins) as follows: move the jumper from "A" position to "B" position, wait 30 seconds and move the jumper back to "A" position.

JMP2 (2 pins) is **not in use** and must always stay shorted.



External sensor Connection (option)

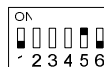


Important: The external sensor must be Meitav-tec type only.

Temp °C	7.2	10.0	12.8	15.6	18.3	21.1	23.9	26.7	29.4	32.2
Res. KΩ	115.8	100.9	88.1	77.1	67.7	58.6	52.5	46.4	41.2	36.6

Connecting the external sensor

- Disconnect power to the thermostat.
- Move switch 5 to ON position and switches 1 and 6 to OFF position.
- Connect the temperature sensor to the T-T terminals.
- Reconnect power to the thermostat.



Notes

- The wire length for the external sensor can be up to 100 feet (30 meters) with standard cable.
- If the distance is greater than 100 feet, the wire **MUST** be shielded.

There is a wide range of sensors for different applications: duct, rooms, etc. There are also options for averaging the temperature. For details, please contact our technical line or visit our web site.

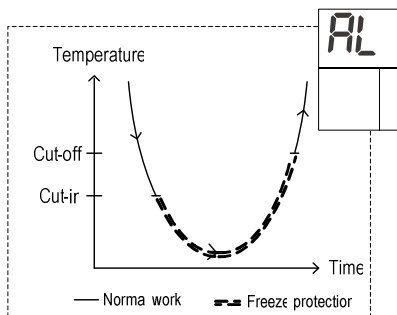
Freeze Protection

When the temperature drops below the freeze protection cut-in temperature*, the thermostat will turn on the Heat and Fan outputs in order to protect the system from freezing. This function will be activated when the thermostat is either in On or Off position.

The display will alternate between "AL" and the room temperature.

The thermostat will return to normal mode when the temperature rises above the freeze protection cut-off temperature*.

*adjustable – refer to the technician settings section of the operating manual.



ETN24-SUPER-FP-PROG-EU-C
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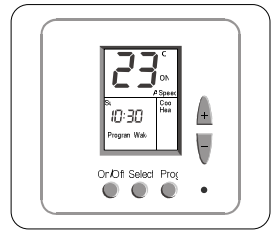
Operating instructions

On/Off

- Press the [On/Off] button to turn the thermostat ON
- Press and hold the [On/Off] button (4 sec.) to turn the thermostat OFF

Set point

- Press the [+/-] button – the set point temperature will appear on display
Adjust using the [+/-] buttons

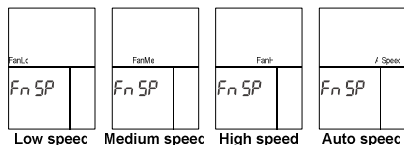
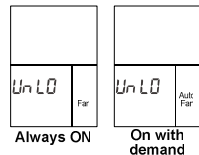
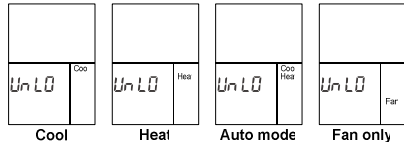


Modes / Auto fan / Fan speeds

- Press the [Select] button once to enter **Modes** selection
- Use the [+/-] and [-] buttons to switch between modes
 - "Cool" Cooling
 - "Heat" Heating
 - "Cool" & "Heat" Auto mode
 - "Fan" Fan only
- Press the [Select] button again to enter **Auto fan** selection
- Use the [+/-] and [-] buttons to switch between
 - "Fan" Fan is on continuously
 - "Auto Fan" *Fan cycles on with demand

*Auto Fan is not available in "Fan only" mode
 * In Heat mode with Oil/Gas heat configuration (e.g. furnace)

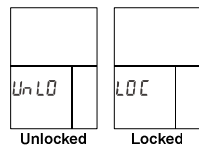
 - Auto Fan – The fan will never be activated
 - Fan – The Fan will work continuously
- Press the [Select] button again to enter **Fan speeds** selection
- Use the [+/-] and [-] buttons to switch between
 - "FanLo" Low speed
 - "FanMe" Medium speed
 - "FanHi" High speed
 - "A Speed" Auto speed
 - "Auto Fan" *Fan cycles on with demand
- Press the [Select] button again to return to normal display



Lock Buttons

Use the Lock option to prevent users from making unwanted changes
 When the thermostat is locked the [Select] [+/-] and [-] buttons are disabled
 however the users can turn the thermostat ON or OFF. The display will alternate
 between "Loc" and real time clock

- Make sure both temperature set points are different than 10°C
- Lock the thermostat - Press and hold the [Select] button (20 seconds) until "Loc" appears on display
- Unlock the thermostat - Press and hold the [Select] button again (20 seconds) until "UnLo" appears on display



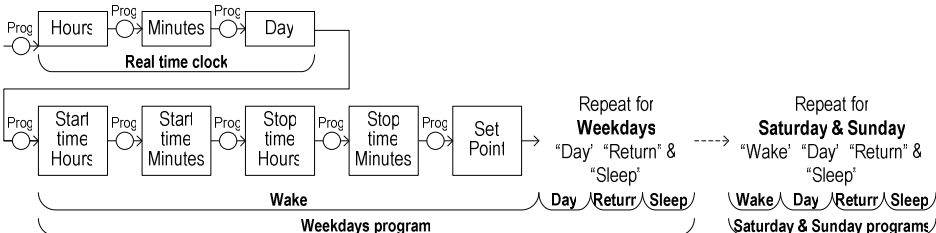
File: ETN24-SUPER-FP-PROG-CEL_rev1.vsd

Weekly Program

The thermostat can be programmed with up to 12 different programs with start time / stop time and set-point for each of the programs. 4 different programs for the weekdays (Monday to Friday), 4 different programs for Saturday and 4 different programs for Sunday. Daily programs are named: Wake, Day, Return and Sleep.

Enable/Disable/Override the weekly program

- Press & Hold the [Prog] button (10 sec.) to enable/disable the program. When the word "Program" appears on display, the weekly program is enabled and can be modified. When the word "Program" does not appear on display, the weekly program is disabled and cannot be modified.
- The occupant can temporarily change the set point temperature to be different than the set point temperature specified by the program. Changes will be effective until the next program event begins.
- To exit programming mode, press the [On/Off] button until normal display is reached or wait 30 seconds.

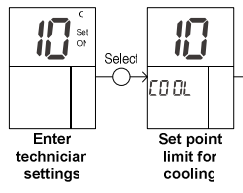


Technician Settings

- Adjust the set point temperature to 10°C. Wait until display stops flashing.
- Press and hold the [Select] button (5 sec.) to **enter technician settings**.
- Use the [Select] button to switch between different configurable parameters.
- Use the [+], and [-] buttons to make adjustments or switch between options.

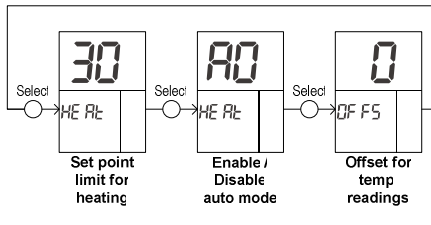
Set point temperature limit for cooling

- Indication: "Cool" and the set point Temperature limit for cooling. Range: 10.. 30°C, default 10°C.



Set point temperature limit for heating

- Indication: "Heat" and the set point temperature limit for heating. Range: 10.. 30°C, default 30°C.



Enable / Disable auto change over mode

- Indication: "AO" - enable (default), "AF" - disable.

Offset for calibration of the measured temperature

- Indication: "Offs" and a number between (-6) and (+6). Range: -6...+6°C, default 0°C.

Freeze protection cut-in (see explanation)

Indication: "FPOn" Range: 10.. 19°C, default 12°C.

Freeze protection cut-off (see explanation)

Indication: "FPOff" Range: 12.. 21°C, default 14°C.

Enable / Disable Freeze protection

Indication: "FO" - enable (default), "FF" - disable.

