

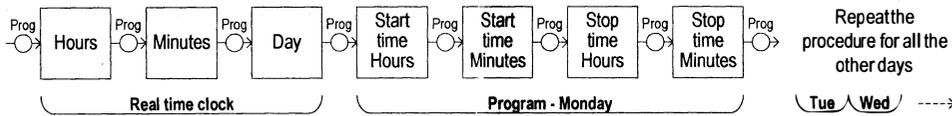
## Weekly Program

The thermostat is 7-DAY PROGRAMMABLE.

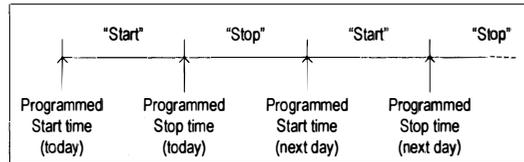
It can be programmed with up to 7 different programs, 1 for each day, with start time and stop time

### Enable/Disable/Override the weekly program

- Press & Hold the [Prog] button (20 sec.) to enable/disable the program.  
When enabled, the words "Start" or "Stop" will appear on display.
- To exit programming mode, press the [On/Off] button until normal display is reached or wait 30 seconds.

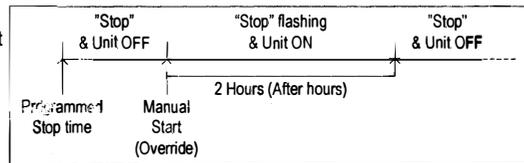


Note that the words "Start" or "Stop" on display will indicate the current status of the weekly program as follows:



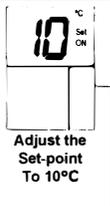
Override the program (After hours timer):

The word "Stop" will flash when the occupant manually turned the unit ON, during stop event. Override period is 2 hours before turning the unit back OFF.



### Technician Settings

- Adjust the set 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

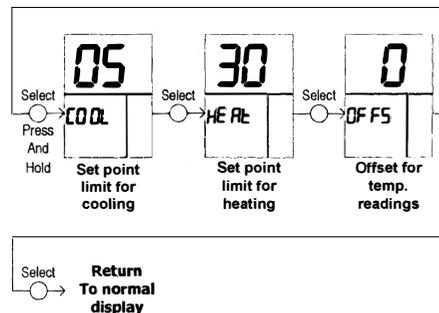
- Indication: "Cool" and the set point Temperature limit for cooling. Range: 5...30°C, default 5°C.

### Set point temperature limit for heating

- Indication: "Heat" and the set point temperature limit for heating. Range: 5...30°C, default 30°C.

### Offset for calibration of the measured temperature

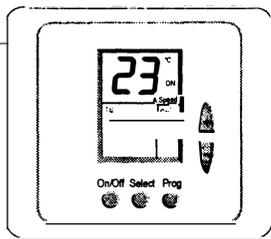
- Indication: "Offs" and a number between (-6) and (+6). Range: -6...+6°C, default 0°C.



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## 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.

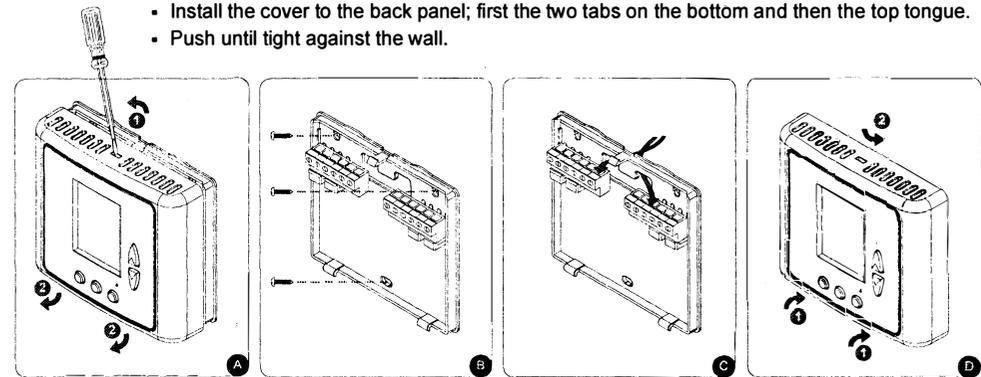


### General points to follow:

- 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:

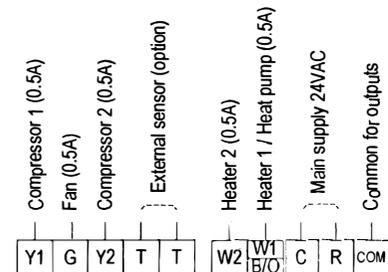
- Separate the front panel from back panel by pressing the tongue located in the top of the unit and pull the back panel out.
- Line the back panel up against the wall or flat surface. Install three screws as required.
- Make electrical connections as shown on enclosed electrical wiring diagram.
  - 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.

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.



COM - Common for outputs - 48VAC / 30VDC max.

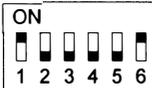
## DIP Switch and Jumpers Configuration

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

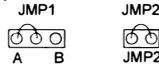
Switch	Internal/External Sensor		HP		HC		Time delay for compressor	
	Internal sensor	External sensor	Heat Pump in heat "B"	Heat Pump in cool "O"	Oil/Gas heat	Electric heat	No delay	3 Minutes
1	ON*	OFF	X	X	X	X	X	X
2	X	X	ON		OFF*		X	X
3	X	X	ON	OFF	ON	OFF*	X	X
4	X	X	X	X	X	X	ON	OFF*
5	OFF*	ON	X	X	X	X	X	X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

\*Default

Default DIP switch position:



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.

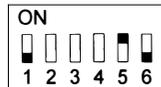
## External sensor Connection (option)

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	59.6	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 30 meters (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.

## Operating instructions

### On/Off

- Press the [On/Off] button to turn the thermostat ON.
- Press and hold the [On/Off] button (10 sec.) to turn the thermostat OFF.

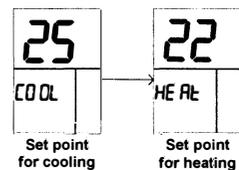
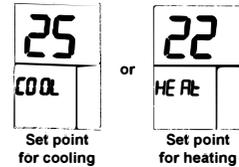
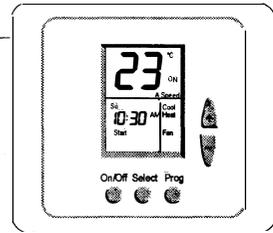
### Set point

#### In Cool mode and in Heat mode:

- Press the [+] or [-] buttons - "COOL" or "HEAT" will appear on display and the set-point temperature for cooling or heating will flash.
- Adjust the set-point temperature for cooling or heating using the [+] or [-] buttons.
- Wait until display returns to normal.

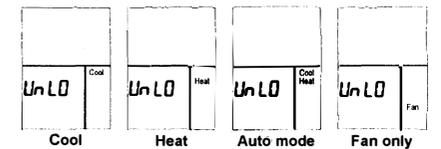
#### In Fan only mode or in auto change-over mode (2 set-points):

- Press the [+] or [-] buttons - "COOL" will appear on display and the set-point temperature for cooling will flash.
- Adjust the set-point temperature for cooling using the [+] or [-] buttons.
- Wait 3 seconds - "HEAT" will appear on display and the set-point temperature for heating will flash.
- Adjust the set-point temperature for heating using the [+] or [-] buttons. Note the the set-point for heating must be lower than the set-point for cooling.
- Wait until display returns to normal.

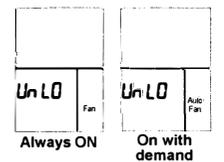


### Modes / Auto fan

- 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 (i.e., furnace):
  - Auto Fan – The fan will never be activated.
  - Fan – The Fan will work continuously.
- Press the [Select] button again to return to normal display.

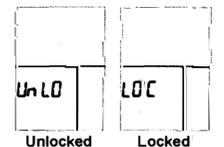


### Lock Buttons

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.



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