

# ETNC24-SUPER-MDB-01

# **Owner's manual & Technician Settings**



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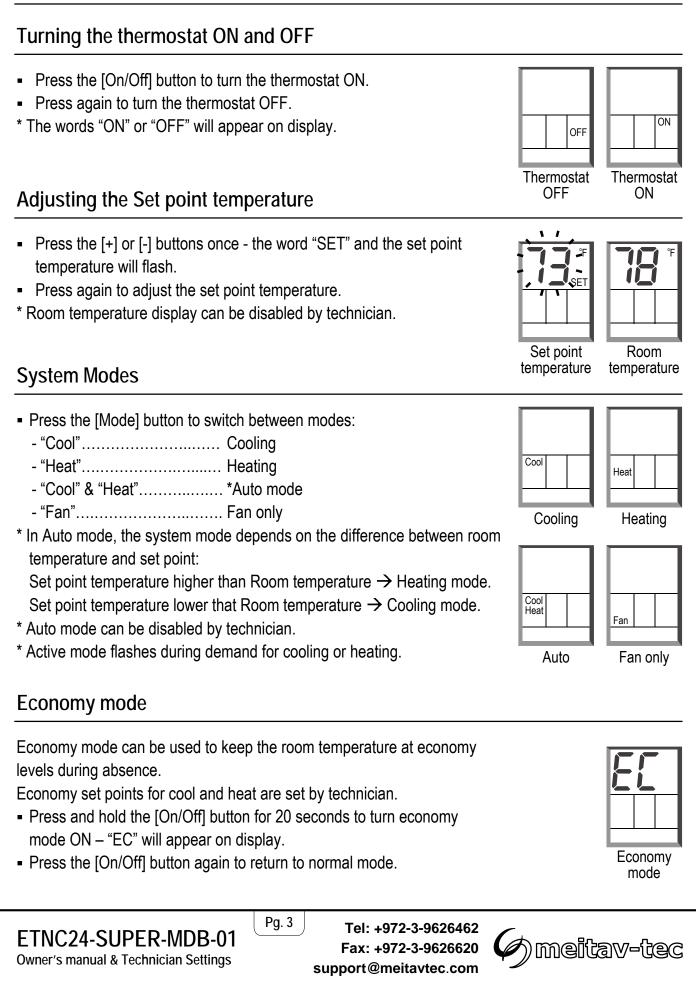
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### **Operating instructions**



### **Operating instructions (Cont')**

### Fan speeds (for 2 and 3 speeds configuration)

- Press the [Fan] button to switch between fan speeds:
  - "Lo"..... Low speed
  - "Me"..... Medium speed
  - "Hi"......High speed
  - "Lo","Me","Hi" ..... Auto speed
- \* In Auto speed, the fan speed depends on the difference between room temperature and set point.
- \* In 2 speeds configuration, medium speed is not active and the letters "Me" will not appear on display.
- \* In 1 speed configuration, the fan speeds display will remain empty.
- \* The active speed will flash.

### Auto fan (Fan on demand)

#### For thermostat with 1 speed configuration:

Press the [Fan] button to turn Auto fan ON and OFF.

#### For thermostat with 2 or 3 speeds configuration:

- Press and hold the [Fan] button for 3 seconds to turn Auto fan ON and OFF.
- \* While ON, "Auto Fan" will appear on display and the fan will cycle only with demand for cooling or heating.
- \* While OFF, the fan will cycle continuously regardless of demand for cooling or heating.
- \* Auto fan is not available in Fan only mode.
- \* While using Oil heater with Auto fan, the fan will be disabled.

### Locking the thermostat buttons

- Make sure the set point temperature is different than 10-11°C / 50-51°F.
- Press and hold the [Mode] button for 15 seconds until "LC" appears on display.
- Press and hold the [Mode] button again for 15 seconds to unlock the buttons.
- \* Separate locking features for selected buttons can be reached through communication control.

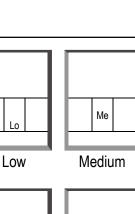
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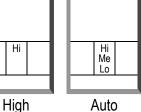
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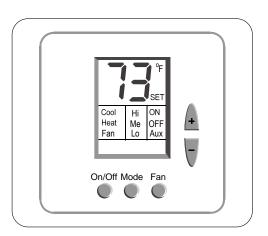
Hi





### Installation

The ETNC24-SUPER-MDB-01 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.

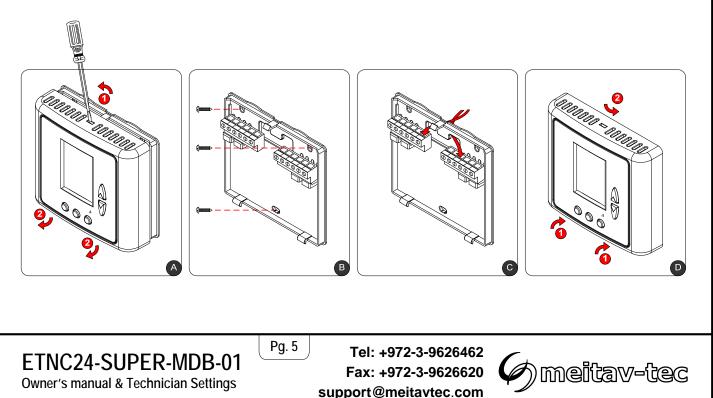


General points to follow:

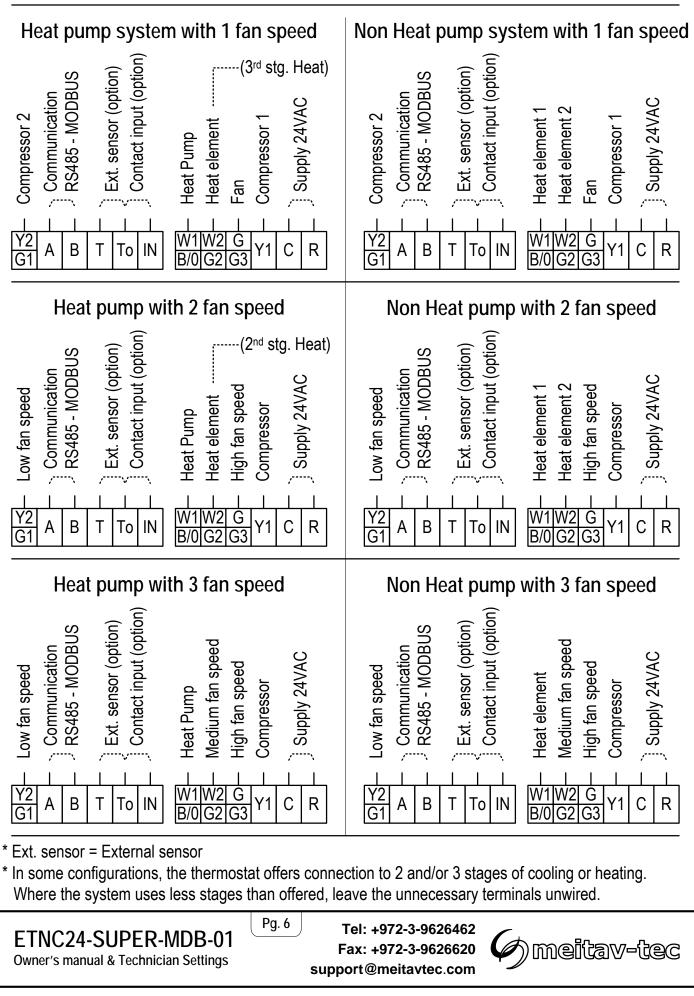
- Disconnect power to the main board before installing the unit.
- The standard height to install this unit is 1.6 meter (5 feet) from the floor.

Installation procedure:

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



### Wiring

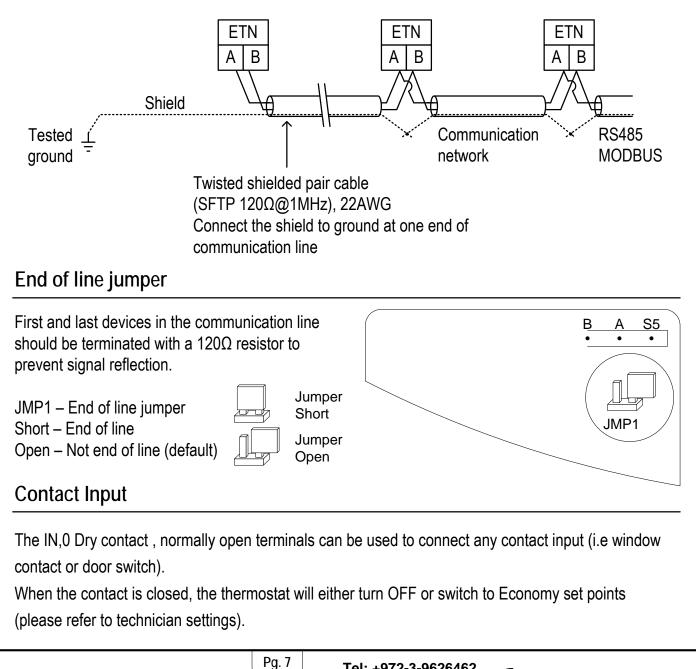


### Wiring (Cont')

#### **Communication Network**

Do not run communication cables in the same conduit of high voltage (24VAC) electrical cables and if you cross an electrical cable, cross at a 90° angle. Mixing high and low voltage lines may cause serious communication problems.

In order to prevent any potential contact between high and low voltage wires, group the high voltage wires together using a non conductive cable clamp, as close as possible to the thermostat, and repeat the procedure on the low voltage wires (A, B, 0, To, IN).



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#### **DIP switch S1 settings** S2 Important: Disconnect power to the unit before changing the configuration of the DIP switches. On Default position: 123456 S1 Using the internal temperature sensor or connect an ON $\begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{bmatrix}$ external sensor to T-To terminals Internal sensor External sensor S1.2 Off S1.3 On S1.2 On S1.3 Off ON ON Heat pump (Active in Cool or in Heat) $\begin{bmatrix} 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{bmatrix}$ or Non Heat pump (Electrical or Oil heaters) Non Heat pump Heat pump Non Heat pump with El. heaters (default)... S1.4 Off S1.5 Off With El. heaters Active in Heat S1.5 On ON ON S1.5 Off 1 2 3 4 5 6 23456 Non Heat pump Heat pump Heat pump system active in Cool......S1.4 On S1.5 On With Oil heaters Active in Cool ON | □ □ □ □ □ □ □ □ □ 1 2 3 4 5 6 - •rn unit ON Window contact operation (when closes) $\begin{bmatrix} 1 \\ 0 \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \end{bmatrix}$ Economy Turn the unit Off ...... S1.6 Off set points Pg. 8 Tel: +972-3-9626462 ETNC24-SUPER-MDB-01 Ø) meitav-tec Fax: +972-3-9626620 **Owner's manual & Technician Settings** support@meitavtec.com

DIP switch S2 settings		
Important: Disconnect power to the unit before changing the configuration of the DIP switches.		
Default position:		
Selecting temperature display – 1- Normal display shows room temp. and [+] or [-] buttons shows the 2- Normal display shows the set point. Room temp. cannot be disp	•	ON 1 2 3 4 5 6 Set point & Room
Display both room and set point temp. (default) S2.1 On Display set point temperature only S2.1 Off		ON 1 2 3 4 5 6 Set point only
Fan speeds configuration       Image: Configuration         One Fan speed (default)	ON 1 2 3 4 5 6 One speed	ON 1 2 3 4 5 6 Two speeds ON 1 2 3 4 5 6 Two speeds ON 1 2 3 4 5 6 Three speeds
Enabling or disabling Auto change over mode Enable the use of Auto mode (default)S2.4 On Disable Auto modeS2.4 Off	ON 1 2 3 4 5 6 Enable Auto mode	ON 1 2 3 4 5 6 Disable Auto mode
Temperature scale   Image: Comparison of the scale     Fahrenheit (default)	ON	ON 1 2 3 4 5 6 Fahrenheit
3 Minutes compressor delay (default)	ON 1 0 0 0 0 0 1 2 3 4 5 6 3 Minutes delay	ON 1 2 3 4 5 6 No delay
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### **Technician Settings**

1. Enter technician settings mode:

- Adjust the set-point temperature to 10°C or to 50°F.
- Press and hold the [Mode] button for 15 seconds to enter technician settings mode.
- Use the [Mode] button to move between parameters 2-7.
- Use the [+] and [-] buttons to make adjustments.
- When finished, press the [Mode] button and Readjust he set point.

2. Adjusting the temperature limit for Cool (range 10...30°C/50...86°F, default 10°C/50°F).

Adjusting the temperature limit for heat (range 10...30°C/50...86°F, default 30°C/86°F).

Adjusting the Offset for calibration of measured temperature (range -5...+5°C/-9...+9°F, default 0°C/0°F).

5. Adjusting the Dead zone (range 2...5°C/4...9°F, default 2°C/4°F).

6. Adjusting the set point temp. for cooling in economy mode (range 18...30°C/64...86°F, default 26°C/79°F).

7. Adjusting the set point temp. for heating in economy mode (range 10...22°C/50...72°F, default 12°C/54°F).

## **Communication MAC Address**

- Adjust the set point temperature to 11°C or to 51°F.
- Press and hold the [Mode] button (15 sec.) to enter MAC Address settings mode.
- Use the [+] and [-] buttons to change the MAC Address (range 1 to 99)
- When finished, press the [Mode] button and Readjust he set point.
- \* Do not use the same MAC Address for two units.

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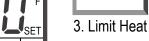
SET

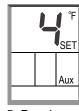
Cool

2. Limit Cool









5. Dead zone





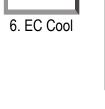
7. EC Heat

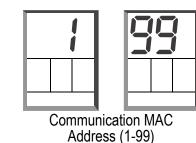


SET

Addr. settings

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4. Offset

Do 11
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