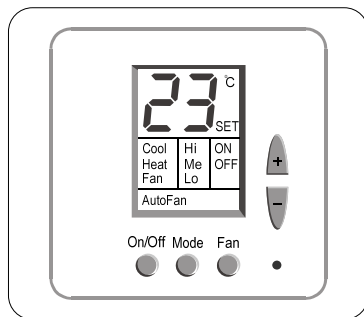


Operating instructions



ON-OFF

- Press the [On/Off] button to turn the thermostat ON or OFF.

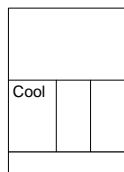
Set point

- Press the [+] or [-] buttons once to view the set point temperature.
- Press again to adjust the set point.

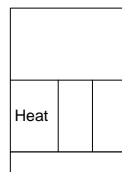
Modes

- Press the [Mode] button to switch between modes:

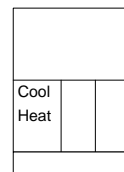
- “Cool”..... Cooling
- “Heat”..... Heating
- “Cool” & “Heat”..... Auto mode
- “Fan”..... Fan only



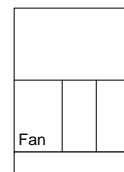
Cool



Heat



Auto
mode



Fan only

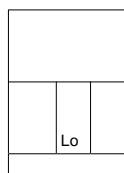
Notes:

- During demand for cooling or heating, the active mode will flash.

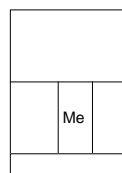
Fan speeds (in 3 speed configuration)

- Press the [Fan] button to switch between fan speeds:

- “Lo”..... Low speed
- “Me”..... Medium speed
- “Hi”..... Hi speed
- “Lo”, “Me” & “Hi”..... Auto speed



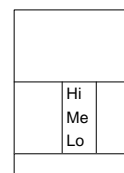
Low



Medium



Hi



Auto
speed

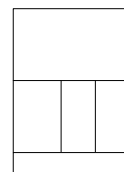
Note: the actual speed indication will flash,
When the fan is active.

Auto fan (fan on demand)

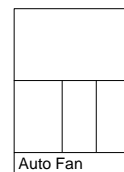
- Press and hold the [Fan] button to turn Auto fan ON or OFF.
- When ON, the fan will work on demand for cooling or heating,
- When OFF, the fan will work continuously.

Notes:

- Auto fan cannot be selected in Fan only mode.
- In oil heater configuration, When auto fan is selected, the fan will turn OFF.



Auto fan
OFF



Auto fan
ON

File: etn24-pmh-super_operating manual.vsd

Installation

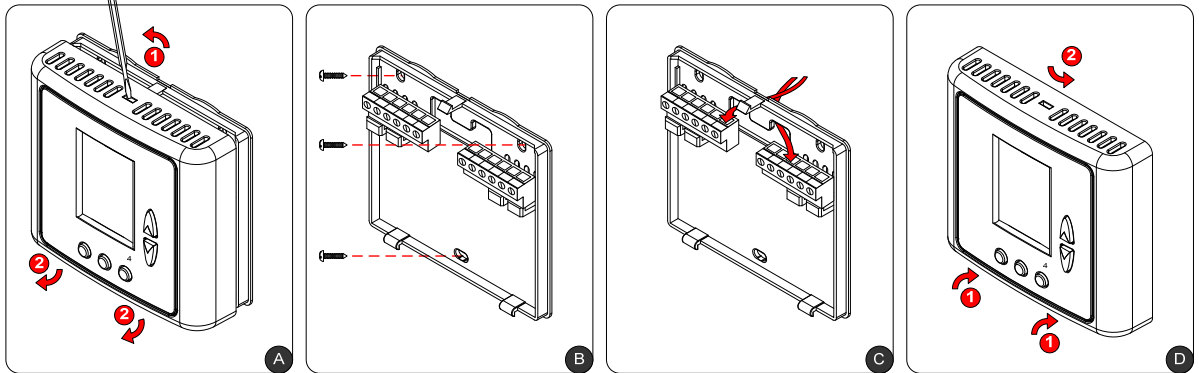
The ETN24-PMH-SUPER is designed for wall mounting in the room to be controlled. It should be located where the occupant can easily read the LCD display and use the controls. If the built in temperature sensor is being used to measure room temperature, the module should be placed where the temperature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

General points to follow:

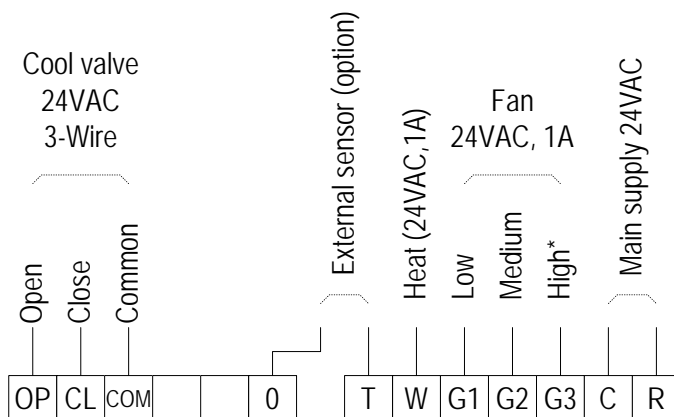
- Disconnect power to the main board before installing the unit.
- The standard height to install this unit is 1.5 meter (5 feet) from the floor.

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 cove to the back panel; first the two tabs on the bottom and then the top tongue. Push until tight against the wall.



Wiring



*Note: in 1 speed configuration (DIP switch selectable), use G3-High output only. G1-Low and G2-Medium are not in use.

DIP switch settings

Internal/External sensor

Use DIP Switches S1.1, S1.2 and S1.3 to select between Internal (default) and External sensor configuration as follows:

- Internal sensor: S1.1, S1.3 – ON, S1.2 – OFF
- External sensor: S1.1, S1.3 – OFF, S1.2 – ON



Internal sensor

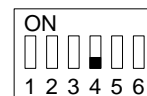


External sensor

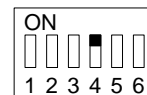
1 or 3 Fan speeds

Use DIP Switch S1.4 to select between 1 and 3 fan speeds configurations as follows:

- 1 Fan speed: S1.4 – OFF
- 3 Fan speeds: S1.4 – ON



1 Fan speed



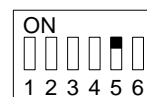
3 Fan speeds

Adjusting the open close time for the valve

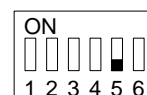
The Open/Close time of the motor can be adjusted by the technician, according to the motor specifications. Adjustable range: 10-400 seconds, Default 120 seconds.

Use DIP switch S1.5 to switch between normal and technician modes.

- Move DIP switch S1.5 to ON position.
- Adjust the Open/Close time using the [+] or [-] buttons according to the following equation:
Time (seconds) = (1 ÷ 40) X 10 example: 30 ? 30 X 10 = 300 seconds.
- Move DIP switch S1.5 back to OFF position.



Tech. mode



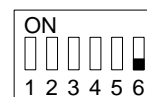
Normal mode

Heater type – Electric or Oil

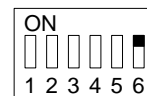
Use DIP Switch S1.6 to select between heater types as follows:

- Electric heater: S1.6 – OFF
- Oil heater: S1.6 – ON

Note: In oil heater configuration, When auto fan is selected, the fan will turn OFF.



Electric heater



Oil heater

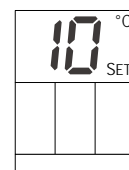
Temperature scale

- Press the [+] or [-] buttons – the set point temperature will flash.
- While flashing, press and hold the [Fan] button (3 seconds) to switch between temperature scale.

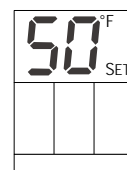
Temperature limits, Offset, Backlight, On/Off configuration

Enter technician settings mode

- Adjust set point temperature to 10°C (50°F)
- Press and hold the [Mode] button for 10 seconds - "Cool" will flash.



Set point (°C)



Set point (°F)

Temperature limit for cooling

- Use the [+] and [-] buttons to adjust the temperature limit for cooling.
Range: 10...30°C (50...86°F), Default 10°C (50°F).



Limit Cool (°C)



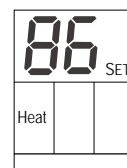
Limit Cool (°F)

Temperature limit for heating

- Press the [Mode] button again – "heat" will flash.
- Use the [+] and [-] buttons to adjust the temperature limit for heating.
Range: 10...30°C (50...86°F), Default 30°C (86°F).



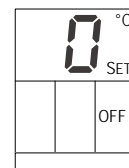
Limit Heat (°C)



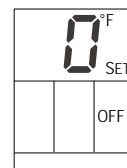
Limit Heat (°F)

Offset for calibration of measured temperature

- Press the [Mode] button again – "OFF" and "SET" will flash.
- Use the [+] and [-] buttons to adjust the offset.
Range: -5...+5°C (-9...+9°F), Default 0°C (0°F).



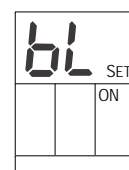
Offset (°C)



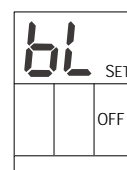
Offset (°F)

Backlight ON or OFF (the backlight may not be available in all models)

- Press the [Mode] button again – "bL" will appear on display.
- Use the [+] and [-] buttons to select between.
"ON" - Back light ON
"OFF" - Backlight OFF



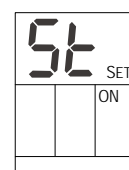
Backlight ON



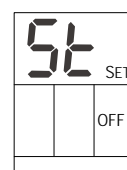
Backlight OFF

On/Off or Start/Stop configuration

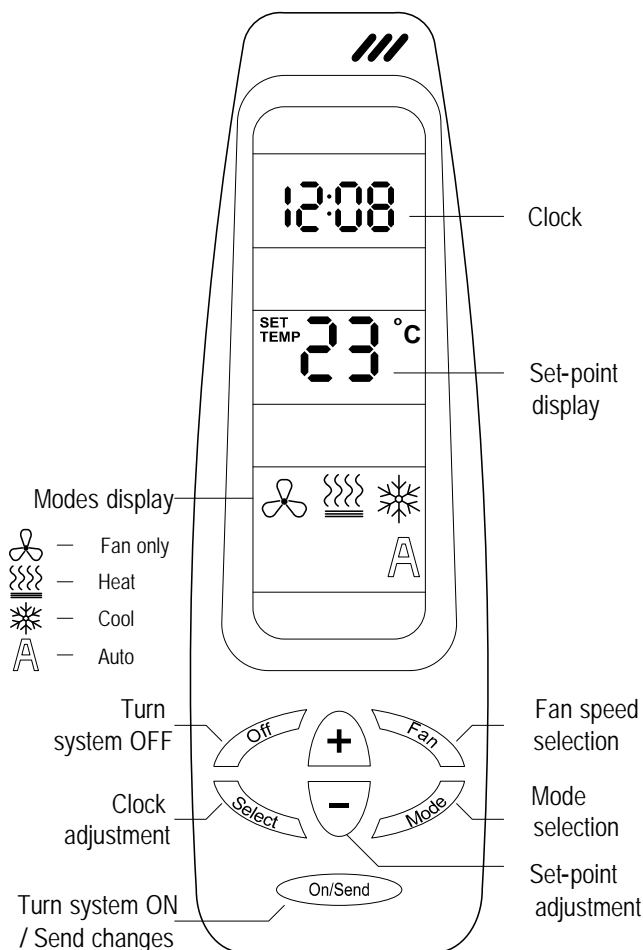
- Press the [Mode] button again – "St" will appear on display.
- Use the [+] and [-] buttons to select between.
"ON" - Unit will remain OFF after an electrical blackout (Start/Stop)
"OFF" - Unit will return to previous state after an electrical blackout (On/Off)
- Press the [Mode] button again to return to normal display.



Start/Stop
(remains off)



On/Off
(return to
previous state)



Batteries Replacement

When the batteries are low, the display of the remote control will dim.

If the batteries will not be replaced the display will turn off completely.

Batteries replacement:

- Pull the batteries cover down to reveal the batteries.
- Remove the old batteries.
- **Wait for 10 minutes before installing the new batteries.**
- Install two new AAA batteries – Pay attention to the polarity.
- Return the batteries cover to place.

Important: The remote control will not operate unless at least 10 minutes pass between removing the old batteries and installing the new ones.

Real Time Clock and Day

- Press the "Select" button – "CLOCK SET" will flash.
- Press the (+) or (-) buttons - the hours will flash.
- Adjust the hours using the (+) or (-) buttons.
- Press the "Select" again - minutes will flash.
- Adjust the minutes using the (+) or (-) buttons.
- Press the "Select" again to return to normal display.
- Press the "On/Send" button several times to return to normal display.