豪信系統工程有限公司
Hensen System Engineering Limited

HTT800 Series Room Thermostat/Controller

1. Major Features

- Slim flush-mounting (12mm)
- Backlit Chinese and/or English LCD Display
- 3-speed selection and auto fan speed
- Adjustable temperature setpoint limiting
- Selectable auto-revive or switch off after power reset
- Selectable Cooling (or Heating) and ventilation only modes
- Remote temperature sensor for duct mount application
- Alternative occupancy switch to reset temperature setpoint
- Alternative occupancy switch to extend hour of operation
- Network version available as an option

2. General

The HTT-800 Series digital room thermostats are available in different models for on-off control of cooling valves and hi-med-lo-off control of fan motors in fan coil units, heat pumps and packaged air-conditioning units for commercial, industrial and residential installations. The thermostat composed of microprocessor to achieve required control functions and thus more flexible than conventional thermostat. They are most suitable for replacement of mechanical thermostat and their size is consistent with that of BS standard with lighting switches.

3. Technical Data

2.1. Power Supply: 230VAC± 10% 50/60Hz
2.2. Consumption: <1.5W
2.3. Load Current: <3A
2.4. Accuracy: ±0.5ºC
2.5. Set-point Range: 10ºC - 40ºC
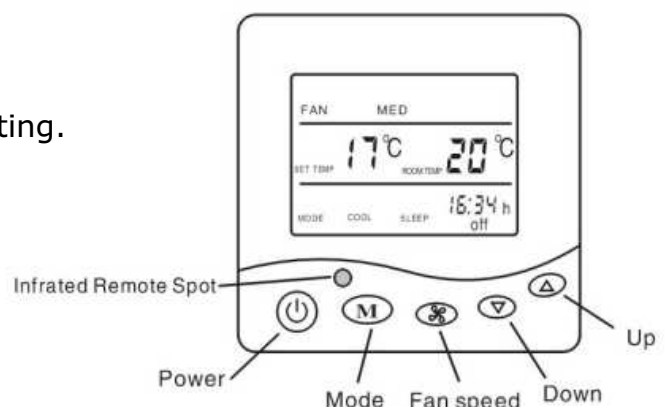2.6. Timing Error: <1%
2.7. Operation Range: 0ºC - 45ºC

> ⚠ **IMPORTANT:**
> Do not install this thermostat in condensing, wet or damp environment, Moisture may cause damage to the thermostat / controller

4. Keys and operation

⏻：Power on/off.
Ⓜ：Mode: Cooling and heating.
❄：Fan speed : auto, high, mid and low setting.
▲：Temp. up or modes selecting.
▼：Temp. down or odes selecting.

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5. Control Logic for NTC

There are sensors detectors inside power unit and LCD display unit. When the power unit connects with external sensor, the ambient temperature shown in display is what external sensor detects; if the power unit doesn't connect with external sensor, the ambient temperature shown in display is what internal sensor detects.

6. External Temperature sensor

Accuracy of Duct temperature sensor is ±0.2℃

7. Keys and Function of Remote Controller (optional).

" Mode "------ Heating/Cooling Change-over
" UP "----------   Temp Up "+"
" Down "------Temp Down "-"
" Fan "---------   Fan Speed
" Sleeping "---   Sleeping Function
" Timing "------   Timing Setting
" Saving "------   Energy-Saving
" Super "-------   High strong fan speed
" Power "------   Turn-on/off

8. Product & Accessories:

LCD Display unit
Power unit
Installation Instruction
Screws

Installation Instruction for HTT800 Series LCD Thermostat

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1.General

HTT800 series LCD Room Thermostat is LCD thermostat with advance Digital Control and suitable for 2-pipes system. It is designed with energy controls such as temperature limiting, time control after-hours, etc.

2.Technical data

2-1. Power Supply: AC220V ± 10%, 50/60Hz

2-2. Consumption: <1.5W   2-3. Load Current: <3A

2-4. Accuracy: ±0.5ºC   2-5. Set-point Range: 10.0ºC - 40.0ºC

2-6. Timing Error: <1%   2-7. Operation Range: 0.0ºC - 45.0ºC

2-8. Output Consumption: <200 W

2-9.LCD size: 86mmx86mmx13mm (Height x Width x thickness)

3. Symbols

⏻ ：Power: on/off.

❄: Fan Speed: auto, high, mid and low

Ⓜ ： Mode: cooling and ventilation only

▲▼: Temperature setting and mode adjusting.
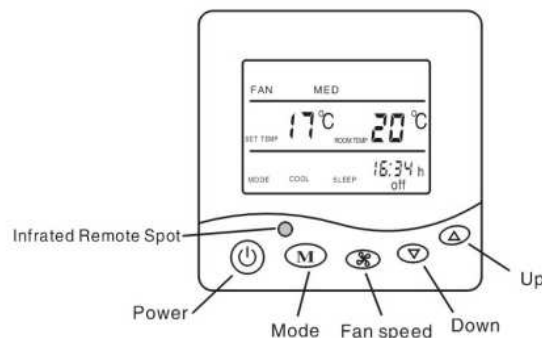
4. Usual Settings

1. Temperature setting.

"▲" increase set-point

"▼"decrease set-point

2. Cooling and ventilation selection

Ⓜ Press to toggle between cooling and ventilation-only modes.

3. Fan Speed selection

❄Press to choose among auto, high, mid and low fan speeds

5. Setup Mode Adjustment

When the thermostat is switched off, press the button "▲"and"Ⓜ" for 10 seconds simultaneously to enter SETUP mode.

After entering setup mode, parameter number and its value will be displayed with the parameter number on the left and its corresponding value on the right. Press ▲▼ to change the value. Press Ⓜ to change to next parameter. Press ⏻ to commit the changes to static memory. If you do not press ⏻ for 5 seconds, changes will be lost and parameters will be reverted to the previous settings.

| Parameters	Usage
1	Temperature compensation (default -1)

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2	High limit for setpoint setting (default 27°C)
3	Low limit for setpoint setting (default 20°C)
4	Temperature setting for Hotel mode when occupancy contact is opened. (default 28°C)
5	Mode selection: 0 – Hotel Mode 1 – BMS Mode
6	Power resume action: 0 – thermostat resume back to previous status 1 – thermostat remain off
7	Duration (in hours) for BMS Mode. Cycle from 0 hr to 3.0 hr. 0 -> 0.5 -> 1.0 -> 1.5 -> 2.0 -> 2.5 -> 3.0 -> 0 0 – Thermostat will be switched off in 1 minutes (for demonstration)

6. External Temperature Sensor

External NTC temperature sensor can be connected to the thermostat. Make sure the power is disconnected before connecting the external temperature sensor to the thermostat. When the thermostat is powered up, it will recognize the external temperature sensor being connected and the temperature display on LCD will be that from the external temperature sensor.

9. Wiring with FCU
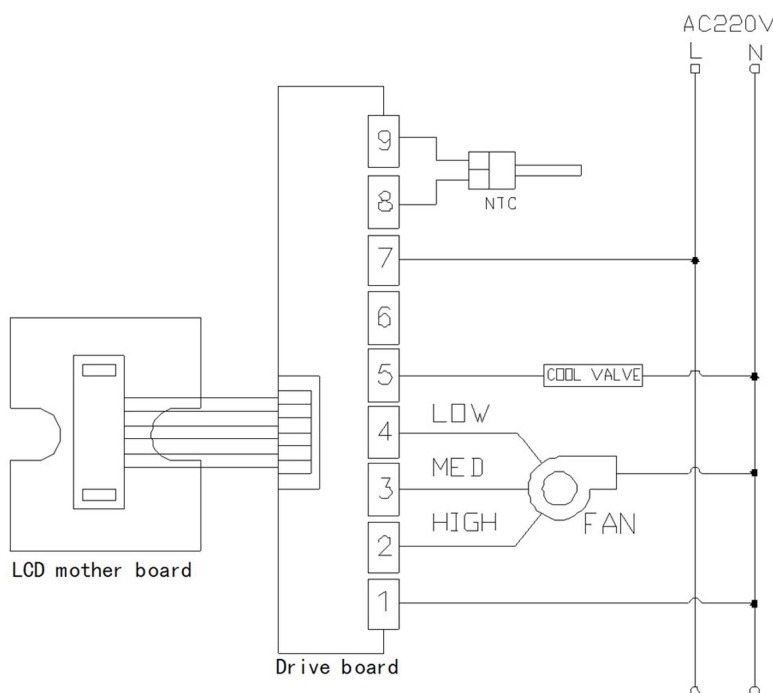
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Installation Instruction for HTT800 Series LCD Thermostat

⚠	**-WARNING: RISK OF ELECTRICAL SHOCK.** Disconnect power supply before making electrical connection. Contact with components carrying hazardous voltage can cause electrical shock and may result in severe personal injury or death.

9. Wiring between LCD and Power Unit

Straight-through 8-core Twisted Pair cable