

# SMART MODBUS Touch Screen Thermostat NT-2800 Series

## TECHNICAL DATA

Sensor: NTC  
Accuracy:  $\pm 0.5^{\circ}\text{C}$   
Temperature Range:  $5 - 35^{\circ}\text{C}$   
Power Consumption:  $< 1.5\text{W}$   
Timing Error:  $< 1\%$   
Power Supply:  $95 \sim 240\text{VAC}$ ,  $50/60\text{Hz}$   
Current Load :  $5\text{A}$  for fan motor and  
 $3\text{A}$  for valve actuator  
Ambient Temp.:  $0 \sim 45^{\circ}\text{C}$  ·  $5 \sim 95\%$   
RH (Non condensing )  
Storage Temp.:  $-5 \sim 55^{\circ}\text{C}$

## OPERATION

Touch Screen

## ENCLOSURE

Material: PC



## DIMENSION

$86 \times 86 \times 13.3\text{mm}$

## INSTALLATION BOX

$86 \times 86\text{mm}$  or EU  $60\text{mm}$



**SMART** Green Device's NT-2800 series modern RS485 Modbus / standalone Touch Screen Room Thermostats are designed to command start/stop the FCU motor and control on/off or modulating the FCU valves in HVAC applications by precious controlling of the room temperature to ensure comfort level and energy saving. NT-2800 series are microprocessor based thermostat with LCD display. Capacitive touch screen enhances the fluency on operation. Keypad includes: Power on/off (  ), Mode selection (M), Fan Speed selection (  ), and two Adjustment buttons (  $\wedge$  &  $\vee$  ).

- Elegant CHROME Frame Creates Style
- Stylish Design With Different Panel Colour
- Large Screen Display With Backlight Results In Easy To Read Even In The Dark
- 5 Touch Button Makes Simplest Operation One-Touch Temperature Controls
- Energy Saving Mode
- Modbus Communication / Standalone Device
- Real-Time Clock - Program Schedules
- On/Off or Modulating Valve Control

- \*Card key input modes for efficient energy saving
- \*Large screen display with backlight
- \*Two period's program schedules maximize comfort and economy.
- \*One-touch temp control overrides program schedule at any time.
- \*Precise comfort control keeps temperature within  $1^{\circ}\text{C}$  of the level you set.
- \*Internal and external sensor selectable is suitable for any place.
- \*Simple installation.
- \* $86\text{mm}$  wall box and European  $60\text{mm}$  round box compatible



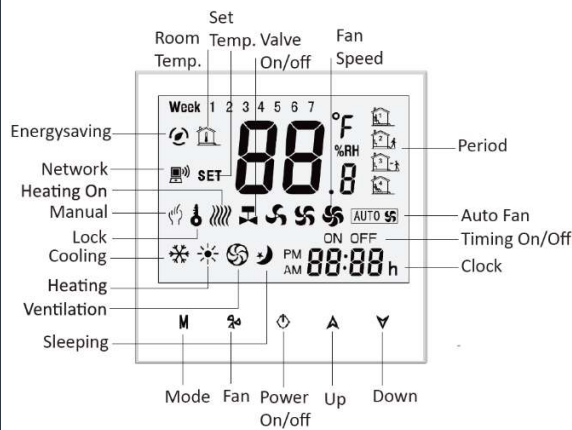
DISPLAY & BUTTONS

WIRING INFORMATION

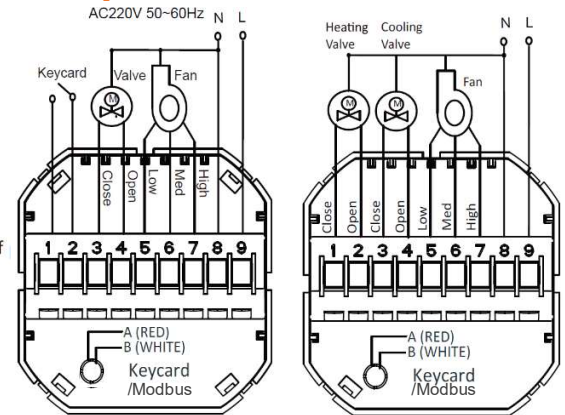
ORDERING INFORMATION

# SMART MODBUS Touch Screen Thermostat NT-2800 Series

## Thermostat Display & Buttons



## Wiring Information



Two Pipe system

Four Pipe system

## Ordering Information

**A1:** Two pipe; Control Fan Coil Unit and two wired motorized valve.

(When room temperature reaches the set point, both will turn off)

**A2:** Two pipe; Control Fan Coil Unit and two wired Motorized valve.

(When room temperature reaches the set point, valve will turn off but fan will turn to low speed)

**B:** Two pipe; Control on/off Motorized Damper C: Two Pipe; Control Fan

Coil Unit and Three wired Motorized valve

**M:** Two pipe; Motorized Control 0-10V Modulating Valve

**E:** Four pipe; Control Fan Coil Unit and Two wired Heat and Cool

Motorized valve.

**T:** Clock

**L:** Backlight

**P:** Weekly Programmable

**N:** RS485/MODBUS RTU communication

**K:** Keycard

**E:** External sensor

**For example: NT-2800ALNE (A1 & A2 mode can be user selectable)**



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