Touch Thermostat with 4G Keypads

Product code: TC0504E1

Bus voltage	21-30 VDC, KNX bus power supply
Bus current	≤ 12mA
Bus power	≤ 360mW
Auxiliary voltage	24 VDC
Auxiliary current	＜30mA
Auxiliary power	＜1W
Temperature detection accuracy	+0.5 ℃
Operating temperature	-5°C…+45°C
Storage temperature	-25°C…+55°C
Transport temperature	-25°C…+70°C
Relative humidity	max 90%
Shell material	Metal+PC
Dimensions	86X86X33 mm (H x W x D)
Weight (approx.)	about 0.1kg
Installation operation	Standard 86 back box

DESCRIPTION

It mainly used for FCU control or air conditioning control, floor heating control, fresh air control, lighting control, scene control, etc. Users can adjust the function configuration according to their own needs, and the screen displays the current control status.
Installed together with other devices through the EIB/KNX bus to form a system.
The entire system is set up and operated using the engineering design tool software ETS.

It adopts the standard 86-box wall-mounted installation method, is powered by the KNX bus, and is connected to the EIB/KNX system through the EIB bus. The engineering design tool ETS software (version ETS4 or above) is used to allocate physical addresses and group addresses. Parameter setting;
It can control air conditioning, fresh air, floor heating and other equipment through the screen. At the same time, mechanical buttons can also be used to control lighting, curtains and other equipment;
It can map mechanical buttons to function buttons on the temperature control screen, which can be used to control switches, mode switching, fan speed adjustment, etc.

MAIN FUNCTIONAL CHARACTERISTICS

Temperature control screen

- Has the control output function of air conditioning equipment;
- Control output function of fresh air equipment;
- Control output function of floor heating equipment;
- Switch and feedback display functions for air conditioning, fresh air and floor heating;
- Temperature setting and feedback display functions for air conditioning and floor heating;
- Wind speed setting and feedback display functions for air conditioning and fresh air, and can set low, medium and high wind speeds;
- Air conditioning mode setting and feedback display, including cooling, heating, air supply, dehumidification and other modes;

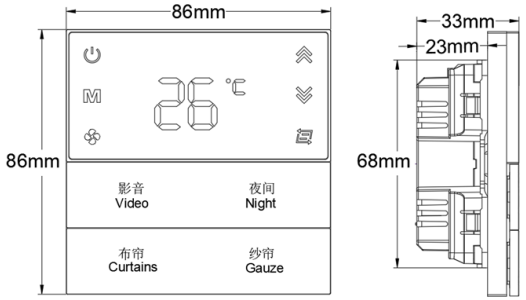
Keypad

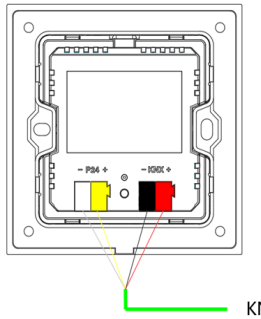
- With value sending function;
- With switch control function;
- With curtain control function;
- With dimming control function;
- With scene control function;
- With LED indication function;
- With long press and short press functions;
- With backlight brightness adjustment function.

Mounting And Safety Instructions

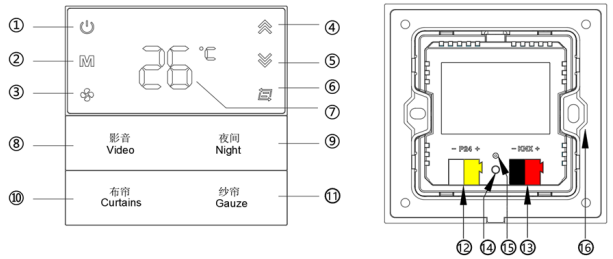
- This equipment may only be installed and operated by a qualified electrician or authorized personnel.
- For the planning and construction of electrical installations, the appropriate codes, guidelines and regulations in force in the respective country must be observed.
- Do not connect mains voltage (230 V AC) or any other external voltage to any point on the KNX bus. Connecting external voltages may put the KNX system at risk. Please don't forget to consider this
- issue.
  Make sure there is adequate insulation between the 230 V AC voltage cable and the KNX bus.
- Do not expose this device to direct sunlight, rain, or high humidity.
- Do not use sprays, solvents, or abrasives that may damage the equipment.
- For installation only in dry locations and on 35 mm DIN rails.
- Equipment must be easy to operate and visually inspect.

Dimension And Wiring





Parameter setting



1. On/off button;
2. Mode switching button, including heating mode, air supply mode, dehumidification mode, and cooling mode;
3. Wind speed adjustment button, used to adjust the automatic, high, medium and low gears of the corresponding mode;
4. Temperature adjustment button, temperature "+";
5. Temperature adjustment button, temperature "-";
6. Function switching button, air conditioning function interface → floor heating function interface → fresh air function interface → air quality display interface;
7. Display interface, display interface for switch status, temperature, wind speed, etc.;
8. Channel A can be configured with mechanical button functions or functions in temperature screens ①~⑥;
9. Channel B can be configured with mechanical button functions or functions in temperature screens ①~⑥;
10. Channel C can be configured with mechanical button functions or functions in temperature screens ①~⑥;
11. Channel D can be configured with mechanical button functions or temperature screen functions ①~⑥. Each button has a feedback LED light, and each button needs to be engraved to be transparent;
12. Auxiliary power supply terminal;
13. KNX power supply terminal;
14. Programming button, click the button for the first time to enter the programming mode, click the button again to cancel the programming mode;
15. Programming indicator light, the indicator light lights up and enters the programming state. When it is in the programming state or programming is completed, the indicator light automatically goes out;
16. Fixed bracket, suitable for standard 86 bottom box installation;