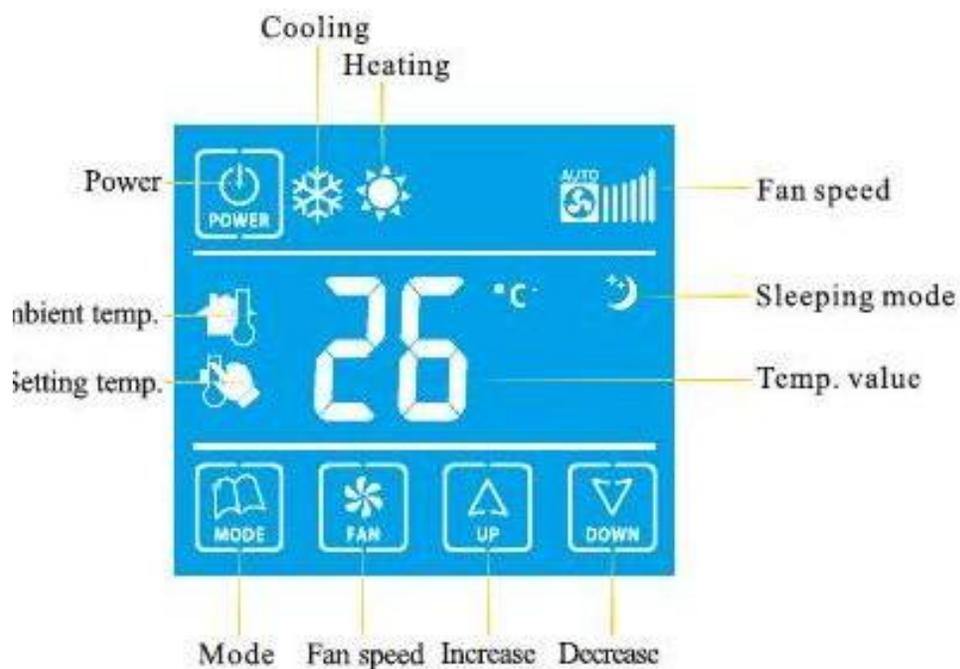# Product Introduction

TX-928 is a cooling & heating thermostat with touch screen, suitable for the 2-pipe fan coil system. And this product includes three functions: ON/OFF state memory function, de-frost protection function and sleeping function.

Technical Data

1. Power Supply : 95～240VAC±10% 50/60Hz

2. Control Performance: ON/OFF Control   Output switch

3. Function: Cooling / Heating

4. Max Output：Fan:3.5A/240VAC,Valve:3A/240VAC

5. Wiring port：≤1.5 mm²

6. Working temp. : 0~50°C

7. Transport & Storage temp.：-20°C~60°C

8. Humidity range：10%~90%(No condensation)

9. Setpoint range/ Setting unit：10~30°C/1°C per step

10. Accuracy：±1°C

11. ON/OFF differential Temp. : 1°C

12. Suitable System: 2-pipe(4-pipe is optional)

13. Suitable Valve: 2 / 3-line valve

LCD display

Cooling
Heating

Power

Fan speed

ambient temp.

Sleeping mode

Setting temp.

Temp. value

°C

26

MODE   FAN   UP   DOWN

POWER

Mode   Fan speed   Increase   Decrease

LCD display

Operation Instruction

Power: In the OFF state, press "☑" key to adjust the On/ Off states.

Increase/Decrease: In the ON state, press "☑" and "☑" key to adjust the temp. .

Mode: In the ON state, press "☑" key to switch the cooling or heating mode. "❄" means cooling mode, "☀" means heating mode.

Fan speed: In the ON state, press "☑" key to choose the fan speed (High, Med, Low and Auto).

1. **Temp. setting:** In the ON state, press "☑" and "☑" key to adjust temp., press any other key to save or automatically saved after 3 seconds.

2. **Valve output:** In the cooling mode, when the ambient temp. is higher than the setting temp. , the valve will be open; when the ambient temp. is equal to or lower than the setting temp., the valve will be closed.

   In the heating mode, when the ambient temp. is lower than the setting temp., the valve will be open; when the ambient temp. is equal to or higher than the setting temp., the valve will be closed.

3. Auto Fan speed Function:

In the Cooling mode

When the ambient temp. is higher than the setting temp. to be 3°C, the fan speed will be "High" automatically;

When the ambient temp. is higher than the setting temp. to be 2°C, the fan speed will be "Med" automatically;

When the ambient temp. is higher than or equal to or lower than the setting temp. to be 1°C, the fan speed will be "Low"automatically.

In the Heating mode

When the ambient temp. is lower than the setting temp. to be 3°C, the fan speed will be " High" automatically;

When the ambient temp. is lower than the setting temp. to be 2°C, the fan speed will be "Med" automatically;

When the ambient temp. is lower than or equal to the setting temp. to be 1°C, the fan speed will be "Low" automatically.

Only if the fan is under "oF"mode,when temperature reach to the setpoint,the thermostat will power off the fan accordingly whatever is under what mode.

4. Temp. compensation (range:-9~9°C): In the OFF state, press" 🔆 " for 3 seconds to enter this mode, press " 🔼 " and " 🔽 " to adjust the temp., press any other key to save this setting or automatically saved after 3 seconds.

5. Sleeping Function: In the ON state, press "🖼" for 3 seconds to enter the sleeping function, the LCD will display " ☽ " ; press "🔼" and "🔽" to adjust the sleeping temp.; press " 🖼 " to save or automatically saved after 3 seconds. In the sleeping function state, the fan speed is Auto, press" 🔆 " or " 🖼 " to cancel this function.

In the cooling mode, when the current setting temp. is lower than the sleeping temp., the setting temp. will increase 1°C per half an hour until equal to the sleeping temp.. The setting temp. only changed in the sleeping mode.

In the heating mode, when the current setting temp. is higher than the sleeping temp., the setting temp. will decrease 1°C per half an hour until equal to the sleeping temp.; The setting temp. only changed in the sleeping mode.

6. De-frost protection: In the OFF state, when the room temp. below 5°C, LCD display "❄❄", the valve will be open automatically.

7. ON/OFF memory function: To memorise the ON/OFF state before power failure. In the OFF state, press "🔼" for 3 seconds,the LCD display "on" means this function is ON, do the operation again to OFF the function, during this time, the LCD display "oF". The default setting is OFF.
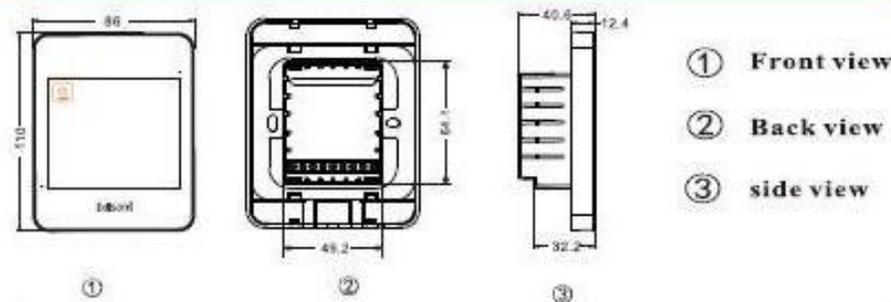
8. LCD brightness adjust: In the OFF state,press " 🖼 "for 3s to enter the setting,press " 🔼 "or " 🔽 "to adjust the brightness. Press " 🖼 "to confirm and quite the setting.

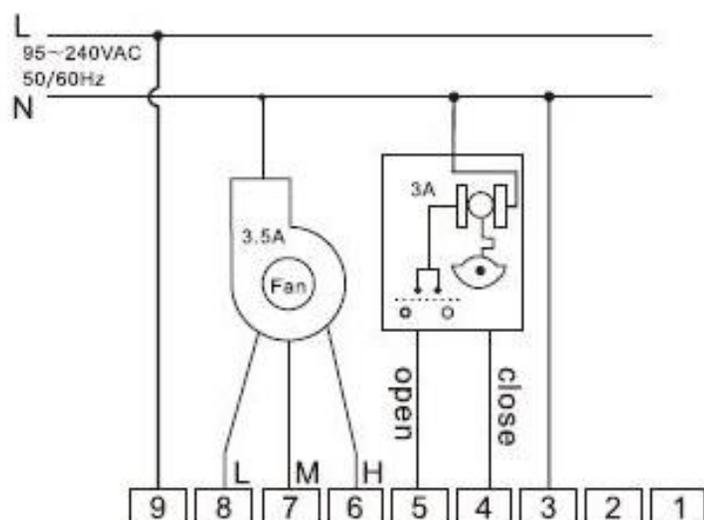**9.Logo ON/OFF:**press " 🖼 "for 3s to turn ON or OFF the backlight of logo.

10.ON/OFF backlight: In the OFF state, keep press " 🖼 ",then press " 🔼 "to enter the setting,if the LCD display on,then LCD will keep lighting,if the LCD display oF,then LCD will off after 15s.

11.Fan stop/open setting: In the OFF state,keep press " 🖼 ",then press "🔽 "around 5s to enter the setting,if the LCD display on,then fan will not stop when temperature reach to the setpoint,if the LCD display oF,then fan will stop only if the temperature reach to the setpoint.
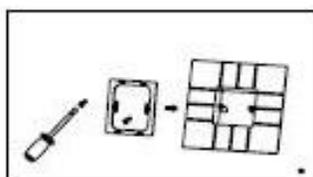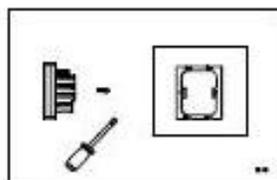
Dimensions (mm)

① Front view
② Back view
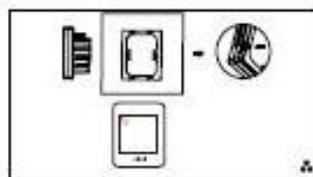③ side view

Wiring Diagrams

Installation Diagrams

① Screwdriver to remove this stainless steel retainer, disassemble the iron holder;

② Put iron holder unto wiring box by screwdriver;

③ Embed into the thermostat, the screwdriver push the stainless steel retainer onto iron holder and buckle the shell

Trouble Shooting

Fault phenomena	Reasons	Methods
No display	Power line input errors or without Input	Check the power line connection and the power supply
Display Er1	Internal sensor errors	Check the pins of internal sensor if there is a short circuit
Display Er2	External sensor errors	Check the pins of external sensor if there is a short circuit. Choose internal sensor via advanced setting