PRO107- User Manual

Main Display



1, WiFi indicator：Display when connected to a WiFi Network
2, Run time history：Run time history data
3, Optional settings：Adjusting the optional settings
4, Day/Time：Displays day of weeks & Time
5, System mode：Dehumidification/Heat/Cool/Ventilation
6, Fan speed: EC Fan Or 3 Speed fan
7, Air humidity: Room air humidity
(1) If humidity value<30%, the pointer will be in the Red area.
(2) If humidity value is 30% ~60%, the pointer will be in the Green area.
(3) If humidity value is >60%, the pointer will be in the Gray area.
8, Power ON/OFF: switch the thermostat ON/OFF
9, Holiday mode: Displays when thermostat is in holiday mode
10, Schedule: Weekday /Weekend, 7 Days and 24Hours programming.
11, Setup button: enter the parameter setting
12/13 Up/Down: set your desired temperature
14, Temperature setpoint: your desired temperature
15, Room Temperature: Displays the current room temperature
16,℃/℉ display: temperature display in ℃/℉
17, Mode display: Display Dehumidification / Heat / Cool / Ventilation

Thank you for buying our product with your great support and trust

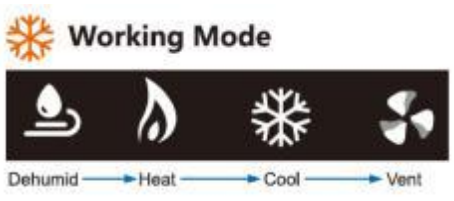
This Fan coil thermostats are widely used in all commercial and residential buildings temperature control, accuracy temperature control provides you comfortable environment, and have the effect of saving energy and reducing power consumption.

This universal thermostats work with 2/4-pipe fan coils with AC Fan (3-speed) , 0-10V valves.

Thermostat Optional Modbus; Wifi; MQTT; Lorawan…etc.

Main Display Operation

Working Mode Selection



The words below: RT=Room Temperature, ST= Set point temperature

☞ Dehumidity Mode

Press system mode button to "Dehumid" to enter the de-humidity mode, the main screen will display symbol.

☞ Heat Mode

Press system mode button to **"Heat"**

★If ST > RT, the heat mode will be activated with symbol on the screen.

★if the RT≥ST, the will be disappeared and heating output will be cut off

☞ Cool Mode

Press system mode button to **"Cool"** you will hear the click after 5 sec.

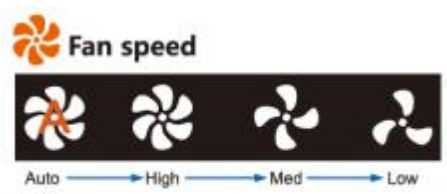
★If the ST<RT, the cool mode and cooling output will be activated with symbol 染 on the screen.

★If the RT≤ST, the 染will be disappeared, and cooling output will be cut off

☞Ventilation Mode

Press system mode button to **"Vent"** to enter the ventilation mode

Three Speed & Auto Fan can be selected during all modes above



Schedule

★Press icon to enter the Feature Settings.

★Find and press the "Schedule" option to entry the setting interface.

There are four Options:

Weekday/Weekend, 7Days, 24Hrs, None

★For example, Set the program Mode to 7Days.

※Press the icon to save and press again return to the main screen.

※Press the "Schedule" and Monday to Sunday can be selected to edit.

※Press "Monday" and there are Four Time Period can be selected:

Morning/Day/Evening/Night

Each Time Period has ON/OFF Options

※Press the column of "Hour", use the icon <D to set desired "Hour"

※Press the column of "Minute", use the icon to set desired Minute.

For Example: 7 (Hour):30 (Minute) means 07:30AM in the morning

※Press the column of "Degrees", use the to set desired temperature.

For Example: The Setting Temperature is 20℃

※ Repeat the steps above to set the 4 periods of each day

※Press the icon to exit and save, repeat the steps above to set each day. Or you can also press "Copy To" to select any date to copy the period setting you just set and press icon to exit and save.

Holiday

Thermostat will maintain this temperature for the duration of the holiday and automatically return to the preset program mode after your return.

※Press the "Holiday" and entry in setting interface.

※Press the to to enable the Holiday mode, and press the column of Year/Month/Day, Use the icon <D to set the Year/Month/Day values of your holiday start date and holiday end date.

※Press the icon to save and exit. "Holiday will start at **/** **:**" will display on the top of main screen

Parameter Settings:

Press the to enter the parameter setting menu

☞Language: There are nine languages can be selected by user.

Clock & Date Time

☞Time Zone Selection

Press Up or Down key to select your current Time Zone

☞Clock & Date Time

Select each column to set your current Year, Month, Day, Hour and Minute.

☞Daylight Saving Time

Auto DST ON/OFF Options

★There are three options:

European Union/ US&Canada/ Australia&New Zealand

Select one option and Press the icon to save and exit

Backlight Setting

★Ambient Light Dimming ON: Automatically adjust the backlight brightness.

★Ambient Light Dimming OFF: Manually adjust the backlight brightness.

★Use the to adjust to the desired brightness

★Press the Keys to save and return to main display

Standby Screen

★ Select your desired option to control the Standby Screen Time.

★ Select your desired standby type

★Press the to save and return to main screen.

Screen Lock

Lockout Pin on/off Options

★For example, Set the Lock Pin to 5209

※Press the First Column ,use the <D keys to adjust to 5

※Press the Second Column , use the <D keys to adjust to 2

※Press the Third Column ,use the <D keys to adjust to 0

※Press the Fouth Column ,use the <D keys to adjust to 9

★Press the Keys to save and return to main screen

2/4pipe Setting

★Press the "Screen Lock", Enter password 1766. Then Press icon, Enter the "Device Type Selection" interface, Choose FCU-2-Pipes or FCU-4-Pipes

The thermostat restarts automatically and the setting is complete.

Feature Settings

Press to find the "Feature Settings" option and enter to edit

☞Temperature Format: can be selected between ℃ and ℉.

☞Temperature Limit

★Press the icon to enter Feature Settings.

★Press "Temperature Limit" and enter setting interface.

★Press the First Column and use the <D keys to adjust Minimum Temperature between 5-34℃

★Press the Second Column, use the <D keys to adjust Maximum Temperature between 6-35℃

★Press the icon twice to save and return to main screen

☞Switch Diff

★Press "Switch Diff" and entry in setting interface.

★There are four Options: 0.5, 1, 2, 3

★Select desired number and press the icon to save and exit.

if ST=20℃, switch diff value=0.5. Under heating mode: the thermostat gives heating output at 19.5℃ and cut off at 20.0℃. Under cooling mode: the thermostat gives cooling output when RT= 20.5℃ and cut off at 19.5℃.

☞Output Delay: To prevent rapid switching between cool & heat. Output delay can be set from 0-15 minutes. The default is 0 which means no delay.

☞Defrost

The thermostat automatically enter the defrost mode when the room temperature drops below the defrost temperature.

The range is 7-17℃.The default is 7℃ and is suitable for most applications.

☞ Built in Sensor: room temperature can be calibrated from -5℃ to 5℃

☞ Humidity Sensor: room humidity can be calibrated from -25% to 25%

☞Open Window Function

The thermostat turns the heat/cool off for 15 minutes if it detects the RT drops/raises more than 3 degrees in less than 1 minute

☞Fan Setting

Fan type:3-speed fan/ single speed fan

Fan Work Mode(when RT=ST):

Value closed, Fan stop

Valve closed, Fan continue

☞Fan type in Heating mode

You can enable or disable fan working under 4-pipe heating Fan coil unit

☞ Temperature Bar Setting: you can select white or color

Hold Temp

The temperature hold function will allow you to manually override the current running program and set a different temperature for a desired period. You can select the temperature and Hold Time

☞Window/Door Dry Contact: if the window/door switch is open, the thermostat will shut off the valve and fan output and show the main screen display only.

System Information

★Press "System Information" to enter interface, and it shows Version Number: xxx and press the icon to exit

Reset To Factory Settings

Warning: Reset will make you lost All Current Settings and return to the factory default settings.

★Press the icon and then press " to enter setting interface.

★Press "Reset" to factory settings

★Press the to exit

Technical Specification

Power Supply :85~230VAC,50/60 Hz Version and 24V Version

Setting temp range:5-35℃

Working temp range: -10-45℃

Temp accuracy:±1℃

Power consumption:1W

Max Switch Current: 5A

Fan type: 0-10V/3 speed Fan

LCD screen size: 4 Inch

The LCD resolution: 480*320

Touch: Capacitive Screen

Hole Pitch: 60mm

Grade of protection: IP 40

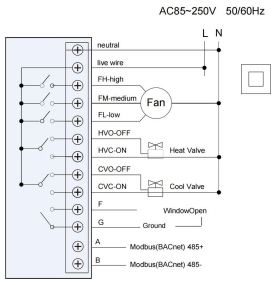
Sensor type: NTC10k

Installation type: Surface/Flush Mounting

Dimension: 96mm * 86 mm* 13mm

Wiring Diagram

PRO107W-4M



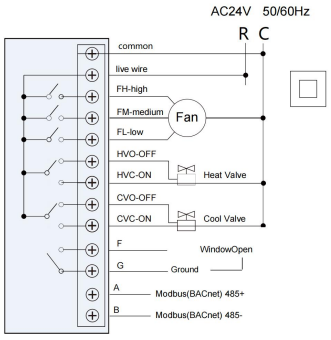
A,B: Modbus wire

2-pipe FCU system: CVO for Cooling and Heating Valve

4-pipe FCU system: CVO for Cooling valve; HVO for Heating Valve

L,N for 220V;

PRO107W-4M-24



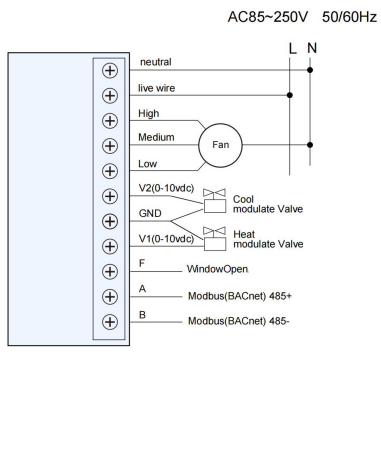
A,B: Modbus wire

2-pipe FCU system: CVO for Cooling and Heating Valve

4-pipe FCU system: CVO for Cooling valve; HVO for Heating Valve

R,C for 24V;

PRO107W-4AM



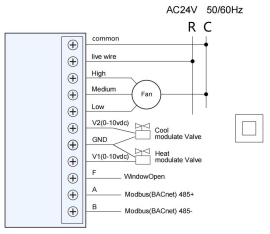
A,B: Modbus wire

2-pipe FCU system: CV for Cooling and Heating Valve

4-pipe FCU system: CV for Cooling valve; HV for Heating Valve

L, N for 220V

PRO107W-4AM-24



A,B: Modbus wire

2-pipe FCU system: CV for Cooling and Heating Valve

4-pipe FCU system: CV for Cooling valve; HV for Heating Valve

R,C for 24V

Installation

Install the thermostat at the visual level.
Please read the instructions in order to better understand our products.
Do not install in areas close to the heat source, which will affect its function.
This flush mounting thermostat requires a 35mm power box in the wall.

Step 1

Using a flat-blade screwdriver to loose the screw from the bottom of the thermostat, and take off the front part from the backplate.

Step 2

Place the front panel of the thermostat in a safe place.
Follow the wiring diagram above for connecting terminals.

Step 3

Screw the thermostat backplate into the mounting box in the wall.

Step 4

Put thermostat front panel on the backplane, and fasten the screws.