

Series W-H4000

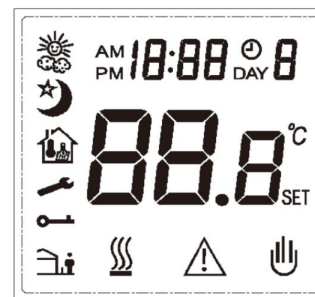
Room Thermostat

◆ Applications

Series W-H4000 digital heating room thermostat is designed for heating systems and FCU systems, helping the user to regulate the room temperature.

◆ Features

- Concise and elegant appearance suitable for upscale shopping centers, hotels, offices and home
- Large LCD sized 86×86
- Real-time clock with rechargeable power supply (programming type)
- Scheduling setting for a week (programming type)
- 6 segments programming for a day (programming type)
- Switching among single internal control, single external control and double control modes is available
- Auto-correction for temperature deviation
- Settable return difference of temperature in internal control
- Settable return difference of temperature in external temperature-limiting control
- Day, night, on holiday and scheduling (programming type) modes available
- Keypad lockable function
- Backlight display (backlight type)
- Save function starts if it suddenly loses its power



◆ Operating Principles

Series W-H4000 digital heating room thermostats adopt advanced processors. The high-precision NTC temperature sensor inside the thermostat detects the room temperature in real time. If the room temperature is higher/lower than the user's setting temperature, it will regulate the heating device or switch on/off the electronic control valve automatically to keep the room temperature equivalent to the user's setting value.

◆ Technical Specification

Working Voltage:	AC 85~260V 50/60Hz
Setting Range:	Single Internal Control Sensor 5-35°C Single External Control Sensor 5-35°C Internal Control Sensor and External Temperature-limit Sensor 5-35°C (Internal Sensor Option 1), 20-70°C (Internal Sensor Option 2) Programming 5-35°C
Control Range:	5-35°C
Display Range:	0-95°C (for -10 < t < 0°C , 0°C will be displayed; for 95 < t < 100° C, 95° C will be displayed)
Deviation:	±1°C
Display Resolution:	0.1°C (Internal Sensor), 0.5°C (External Sensor)
Temperature Sensor:	NTC Sensor
Max. Drive Current of Thermorelay:	5A (Resistive Load)
Wire Length of External Sensor:	3 m
Power Consumption:	Less than 2W
Terminal:	1×2.5mm ²
Keypad Type:	Tact Switch
Shell Material:	Flame-retardant ABS Plastic

◆ Technical Parameters

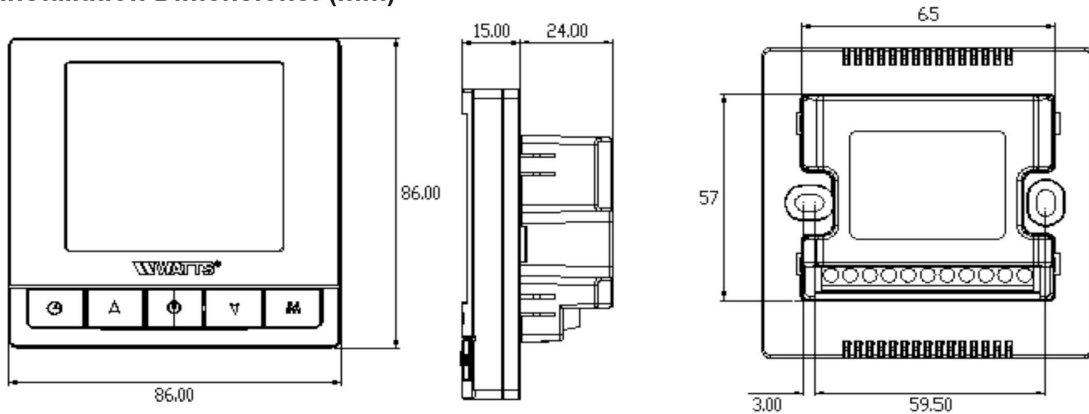
Series	Type	Description
W-H4000	W-H4110L	Single control without backlight and programming
	W-H4111L	Single control with backlight and with no programming
	W-H4110P	Single control with programming and with no backlight
	W-H4111P	Single control with backlight and programming
	W-T4120L	Double control without backlight and programming
	W-H4121L	Double control with backlight and with no programming
	W-T4120P	Double control with programming and with no backlight
	W-H4121P	Double control with backlight and programming
	W-H4100P	External sensor 10K wire length: 3m

Coding Rules:

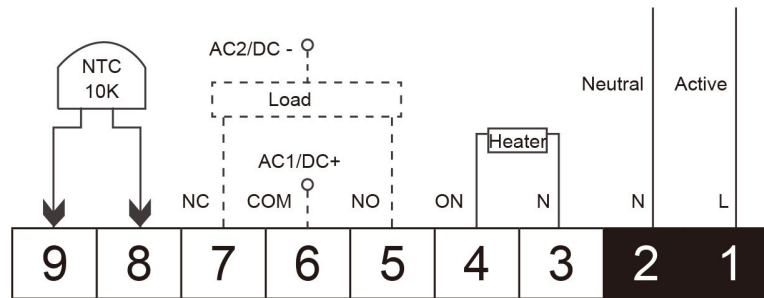
W	WATTS
H	Suitable for Heating
41	Series Number
Control Type	
1:	Single Control
2:	Double Control
Backlight	
0:	Backlight
1:	No Backlight
Programming	
L:	No Programming
P:	Programming

◆ Installation

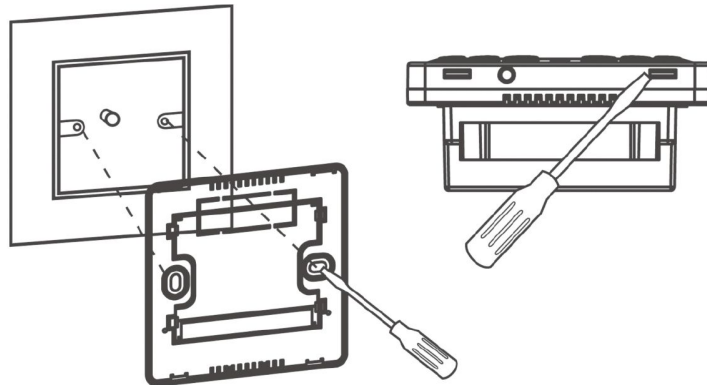
Installation Dimensions: (mm)



Wiring Diagrams:



Installation Instruction



1. It should be installed after the power supply is fully turned off in order to avoid dangerous electric shock or components damage.
2. It should be installed in right location instead of locations with direct sunlight or high humidity.
3. Connect it to the power supply, the electronic control valve and the fan motor correctly in terms of the wiring diagrams above.
4. Fasten the back shell of the room thermostat to the switch box in the wall through screw connection.
5. When installing the panel shell, first link the connecting wires of the back shell and the panel shell. After that, aim the top of the panel shell at the hole and then press the bottom of it until a click is heard.
6. When disassembling the room thermostat, merely use a straight screwdriver to press the tenon at the bottom of the thermostat. The panel shell and back shell will separate easily. Note that little force is needed to pry the tenon to avoid tenon damage.