HIQ 112U Programmable room thermostat with Blue screen (Part I)

Ver.1.1

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Buttons and LCD display

Button / Icon	Description	Button / Icon	Description
⏻	Turning on/off thermostat	AUTO	Auto mode(select by button M)
M	Menu button / Program button	🤚	Manual mode(select by button M)
🌀	Auto/Manual mode selection	🧳	Vacation mode
	Set the time and week days	override	Temporary temperature override
△	Increase the set value	❄	Frost protection activated
▽	Decrease the set value	SET	Set temperature
🔒	The buttons are locked.	🏠1	Programmes number
🔥	Heating is turned on	RT	Room temperature
▁▃▅▆▇	The difference between set temperature and room temperature more bars means more difference	☾	Economy temperature
		☀	Comfort temperature

General Settings

Press buttton ⏻ to Turn on/off the thermostat. When thermostat is turned off, the LCD will only display current temperature reading. When the thermostat is turned off, press and hold button M for 3 seconds to bring up a configuration menu. In this mode, press button M to select different features' setting.

Menu #	Feature	Explanation	Adjustment (press up & down buttons to adjust)
01	Sensor Selection	A = Internal sensor F = External sensor	A / F (A by default)
02	Switching Differential	The number of degrees difference before switching. The default is 1°C which means the thermostat will switch the heating on 0.5°C below the set temperature and will turn it off 0.5°C above the set temperature.With a 2°C differential the heating will switch on 1°C below the set temperature and will switch off 1°C above the set temperature.	1°C, 2°C....10°C (1°C by default)
03	Internal Sensor Calibration	This is to recalibrate the temperature reading from internal sensor	-1°C = decrease 1 °C, 1°C = increase 1°C...
04	External Sensor Calibration	This is to recalibrate the temperature reading from external sensor	-1°C = decrease 1 °C, 1°C = increase 1°C...
05	Minimum temperature limit	This gives you the option to change the minimum set temperature	5°C~ 20°C (5 °C by default)
06	Maximum temperature limit	This gives you the option to change the maximum set temperature	35°C~ 90°C (35°C by default)
07	Temperature Format	This alows the temperautre to be set to show °C or °F.	C or F (°C by default)
08	Clock Format	You can select the clock to show in either 12 or 24 hour time	24 (default), 12- hour or 24-hour clock format
09	Freeze Protection	This is to avoid the temperature from going below 5 °C	on= activated, off= deactivated

💡	Please Note: one of the following error messages will appear if one of these problems occur: LO - This error means that the room temperature is below 0°C HI - This error means that the room temperature is greater than 50°C If the floor sensor is short-circuit or broken, the LCD will display "Err" and the thermostat will cut off output.
⚠	This product should be installed by a qualified electrician.

See overleaf for further setting up information

Auto / Manual Mode

Press button M to select Auto/Manual mode. In Manual mode, the thermostat maintains a constant set temperature manually set by the user. In Auto mode, the thermostat executes the preprogrammed schedules. To adjust these schedules, follow the easy steps below,

Program your thermostat

1 Press and hold button M for 5 seconds until "PROG" is shown with the Day flashing. Use up or down button adjust the day (hold up or down button for 5 seconds to set all days the same).

2 Press button M to bring up the program 1( ). Use up or down button to set the start time (default 07:00).(Hold up or down button to change by 15 minutes each time.)

3 Press button M again and use up or down button to set the desired temperature to be maintained for program 1.(default 22 °C)

4 Press button M to bring up the program 2( ). Use up or down button to set the start time (default 09:30). (Hold up or down button to change by 15 minutes each time.)

5 Press button M again and use up or down button to set the desired temperature to be maintained for program 2.(default 16 °C)

6 Press button M to bring up the program 3( ). Use up or down button to set the start time (default 16:30). (Hold up or down button to change by 15 minutes each time.)

7 Press button M again and use up or down button to set the desired temperature to be maintained for program 3.(default 22 °C)

8 Press button M to bring up the program 4( ). Use up or down button to set the start time (default 22:30). (Hold up or down button to change by 15 minutes each time.)

9 Press button M again and use up or down button to set the desired temperature to be maintained for program 4.(default 16 °C)

10 Press button M to accept and exit.

Note: It is faster to program the same schedule for the entire week and then to adjust the exceptional days.

▷ To erase program 2 and 3 for Saturday and Sunday,see below,
● In step 1, select Saturday or Sunday.
● In step 4, instead of using up or down button , using button ⊛ will erase the time.(–:--).
● In step 6, instead of using up or down button , using button ⊛ will erase the time.(–:--).

Set the Time and Day

This thermostat is fitted with a real time clock. It is essential that the clock time and day are set accurately if you require your programmed events to start on time. Follow the below easy steps,

Step 1. Press the button ⊛ once and the time will flash
Step 2. Use up or down button to change the time (Hold up or down button to change by 15 minutes each time.)
Step 3. Press button ⊛ again, the day of the week will flash
Step 4. Use up or down button to change the day of the week
Step 5. Press button ⊛ again to accept and exit

Resetting factory defaults

Your thermostat has the ability to reset all settings to the factory defaults. If you are certain you want to do this: In standby mode(when thermostat is turned off), press and hold button M and ⊛ for 5 seconds until "RESET" is shown for 5 seconds on LCD.

Lock the buttons

To lock the buttons, press and hold the up and down buttons for 3 seconds until you see a lock icon appearing, to unlock, repeat the steps above.

Temporary temperature override

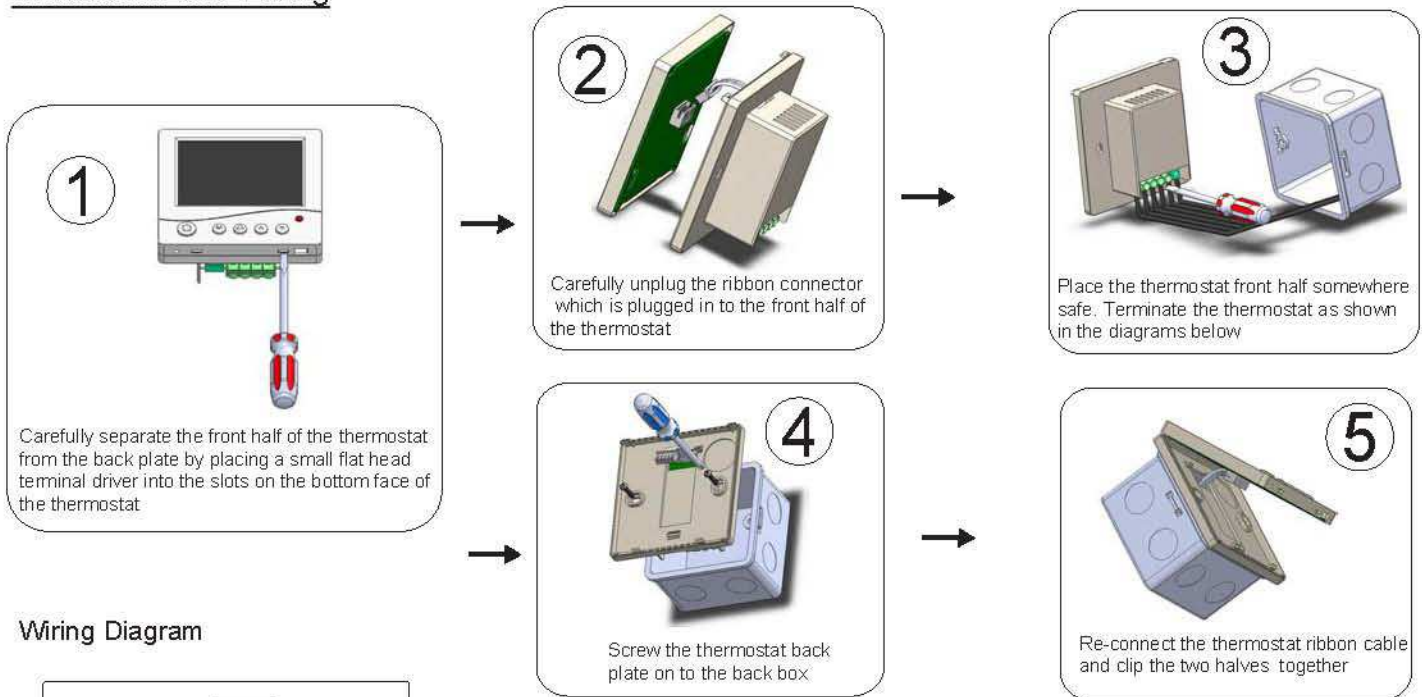To temporary override the current set temperature,

1. Press up or down button once, the set temperature starts flashing
2. Press up or down button again to adjust the set temperature
3. Wait for 5 seconds to confirm the setting with "OVERRIDE" shown on LCD

Now your thermostat will maintain the new set temperature until the next setpoint. To cancel the override setting, press and hold button ⊛ for 5 seconds until "OVERRIDE" disappear.
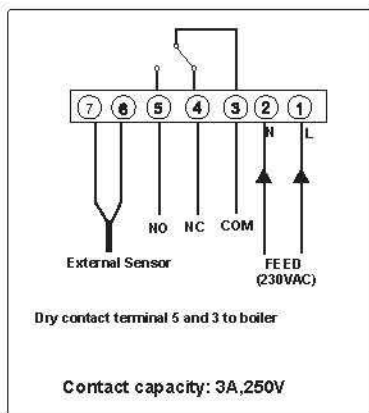
Vacation mode

To set vacation mode press and hold the up button for 3 seconds until appears. Use same procedure to exit this mode.Vacation mode will maintain a set temperature(default 10°C) all the time. Press up or down button to change the set point and wait for 5 seconds to accept and exit.
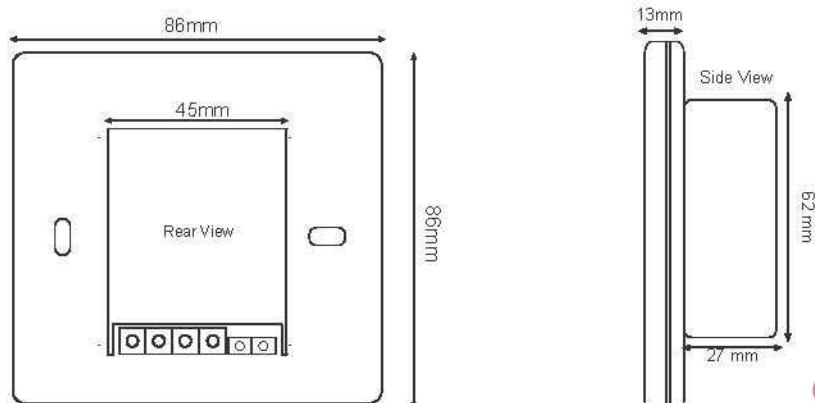
Installation and Wiring

1 Carefully separate the front half of the thermostat from the back plate by placing a small flat head terminal driver into the slots on the bottom face of the thermostat

2 Carefully unplug the ribbon connector which is plugged in to the front half of the thermostat

3 Place the thermostat front half somewhere safe. Terminate the thermostat as shown in the diagrams below

4 Screw the thermostat back plate on to the back box

5 Re-connect the thermostat ribbon cable and clip the two halves together

Wiring Diagram

⑦ ⑥ ⑤ ④ ③ ② ①

NO NC COM

N L

External Sensor

FEED (230VAC)

Dry contact terminal 5 and 3 to boiler

Contact capacity: 3A,250V

⚠ This product should be installed by a qualified electrician.

Dimensions

86mm
45mm
86mm
Rear View

13mm
Side View
62mm
27 mm