









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## Blue Line Raumthermostat JSA RT-B100P Series Thermostat User Manual

JSRT-B100P series heating thermostats with the luxury LCD display, which is used to control the temperature for industrial, commercial and residential application.








JSRT-B100P thermostats are with microprocessor and large LCD display included working status (heating ) , output status (display as ) , room temperature, setting temperature, clock etc. Button includes turn on/off (  ), mode (  ), clock (  ) and temperature adjustment (  ).
















### BASIC FEATURES

-  Room temperature setting
-  Auto recovery, Defrost (low temperature protection)
-  Clock, Timer On/Off and 4 period programming (P, option)
-  Blue backlight
-  Keypad lock (option)







### STATUS DISPLAY

-  Heating 
-  Heating equipment working 
-  Room temperature display
-  Temperature setting display
-  Clock and week display

### SPECIFICATION

-  Sensing element: NTC
-  Accuracy:  $\pm 1^{\circ}\text{C}$
-  Temperature Setting:  $5\sim 35^{\circ}\text{C}$  (Internal Sensor)  
 $5\sim 90^{\circ}\text{C}$  (External Sensor)
-  Operation Environment:  $0\sim 45^{\circ}\text{C}$
-  Humidity:  $5\sim 95\%$  RH (non-condensing)
-  Switch current rating: Resistive: 2 A, Inductive: 1 A
-  Power consumption:  $<2\text{W}$
-  Power supply: AC85 $\sim$ 250V,50/60Hz
-  Terminal: connect the wiring of  $2\times 1.5\text{ mm}^2$   
or  $1\times 2.5\text{ mm}^2$
-  Cover: PC+ABS
-  Dimensions:  $86.6\times 86.6\times 15.5\text{ mm}$ (W×H×D)
-  Hole pitch: 60 mm (Standard)
-  Protection Class: IP30

### OPERATION

















- ☞ On/Off thermostat: Press "" to turn on, press "" again to turn off thermostat and its output.
- ☞ Setting temperature: press "" to reduce temperature, press "" to raise temperature ( $0.5^{\circ}\text{C}$  changed each press).
- ☞ Heating Equipment Control: The thermostat will switch on the heating equipment when the room temperature 1 degree lower than the setting temperature, the LCD will display ""; When the temperature is equal with setting temperature, the thermostat will switch off the heating equipment. The icon "" will disappear.

### MANUAL MODE、TIMING ON/OFF AND 4 PERIOD PROGRAMMING SELECTION (P)

☞ Turn on the thermostat and press "M" for three seconds, then "XX" will display. Please press up/down key to adjust the parameter:




- 01: Manual Mode: When temperature is set, it will remain the same
- 02: Timing ON/OFF
- 03: 4 period programming



### CLOCK AND TIMING ON/OFF SETTING (P)

- ☞ Clock calibration: Press "" till to display "hh:mm" and "hh" flash, press "" or "" to adjust hour, press "", "mm" flash, press "" or "" to adjust minute; Press "", "week" flash, press "" or "" to adjust Mon to Sun.
- ☞ Timer on /Timer off: Press "" till to display "ON" and "hh" flash, press "" or "" to adjust hour, press "", "mm" flash, press "" or "" to adjust minute; Press "" till to display "OFF" and "hh" flash, Using the above method to set the hour and minute of the Timer Off. This function only perform one time and valid in one day.
- ☞ Canceling timer on / Canceling timer off: Method one, set the hour and minute of Timer On/Off to "--"; Method two, set the thermostat mode to Manual mode (01) or 4 period programming (03).

### WEEKDAY/WEEKEND 4 PERIOD PROGRAMMING (P)

☞ Weekdays Setting:

Press "" till "1" and "MON TUE WED THU FRI" display, press "" or "" to adjust the first period time;

Press "" button, the icon of "" will display and the figure is the setting temperature of first period.

☞ Weekend Setting: Press "" till "1" and "SAT SUN" display, the setting method is same with above.

Please make good plan of starting time and temp, there is starting time and programming temp. Each event. (chart.1)



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weekday / weekend	1		2		3		4	
	Starting T / temp. °C		Starting T / temp. °C		Starting T / temp. °C		Starting T / temp. °C	
Weekday(MON~FRI)	7:00	15	17:00	22	21:00	20	22:00	18
Weekend(SAT~SUN)	7:00	22	9:00	20	17:00	22	22:00	18

Working day: MON TUE WED THU FRI

Off day: SAT SUN

☞ Cancel Weekday and Weekend 4 Period Programming Function: Please switch the thermostat mode to Manual (01) or Timing ON/OFF (02)

## KEYPAD LOCK (OPTION)

☞ Keypad lock: With thermostat standby for 30 seconds, the function will enable automatically. Keypads are locked for fear anyone operated.

☞ To disable the function: Press “⌚” button and “▼” for 10 seconds, the function will be disable.

## DEFROST (Low temperature protection)

☞ When the thermostat turns off and the room temperature is lower than 5°C, it will be turned on automatically in heating mode with “☀” showing, the thermostat will turn off when temperature is higher than 7°C.

☞ Turn off the thermostat, press “M” and hold for 3 seconds, it will display “00” or “01”, Press “▲” or “▼” key to adjust. “00” indicates invalid low temperature protection; “01” indicates valid low temperature protection function. The default is “00”.

## TEMPERATURE CALIBRATING

If users want thermostat indicating temperature more than or less than real temp ( $\pm 5^{\circ}\text{C}$ ), you can do as below:

☞ With the thermostat in turned off state, Press “▲” and “▼” for 3 seconds. The display will show “XX” °C (not showing working mode), Press “▲” or “▼” to adjust the temperature while confirmation after 6 seconds.

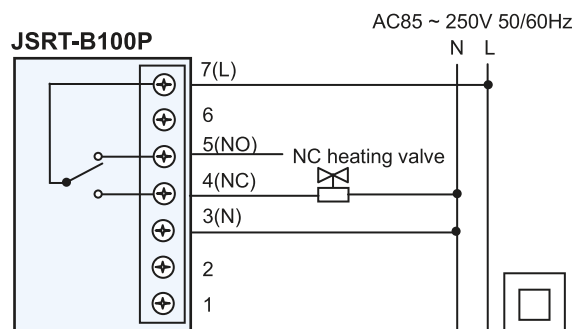
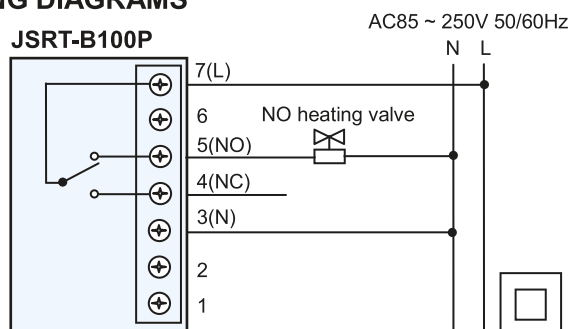
## ALARM

E1: alarming for short circuit of sensor.

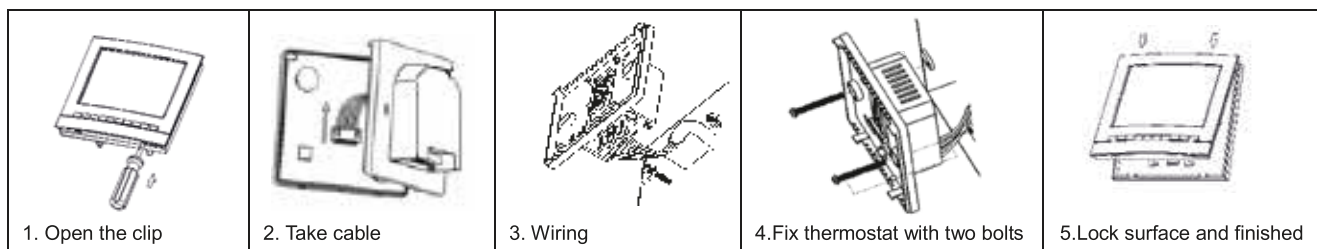
EE: alarming for EEPROM.

When the room temperature is higher than 55°C, alarm “HI” will display, when the room temperature is lower than 0°C, alarm “LO” will display.

## WIRING DIAGRAMS



## INSTALLATION



**Note: Be sure to connect all the wires as per the wiring diagrams and keep it away from water, mud and other material so as to prevent the unit being spoiled!**