

*Robertshaw*<sup>®</sup>

# RS8110

Operation Manual



# RS8110

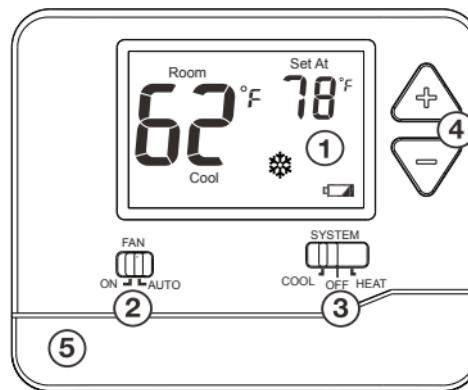
Table of Contents	Page
Table of Contents	1
Thermostat Operation	2-3
Thermostat Quick Reference	4-6
Adjusting the Temperature	
Differential/Swing	7
Installation Settings	8
Terminal Designations	9



## Caution

Equipment damage hazard.  
Do not operate the cooling system if the outdoor temperature is below 50°F (10°C) to prevent possible compressor damage.

## THERMOSTAT OPERATION



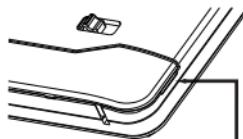
- ① LCD Display
- ② Fan Switch
- ③ System Switch
- ④ Temperature Setpoint Buttons
- ⑤ Easy change battery door

## THERMOSTAT OPERATION

- ① **LCD Display**  
See page 6 for details about this display read out.
- ② **Fan Switch**  
Select **ON** or **AUTO**. **ON** will run the fan continuously. **AUTO** will turn the fan on only in a call for heating or cooling.
- ③ **System Switch**  
Selects the operation mode on your HVAC system. Selecting **HEAT** turns on the heat mode. Selecting **COOL** turns on the cool mode. Selecting **OFF** turns both heating and cooling off.
- ④ **Temperature Setpoint Buttons**  
Press the + or - buttons to select the desired room temperature.
- ⑤ **Easy change battery door**  
See page 4 for details.

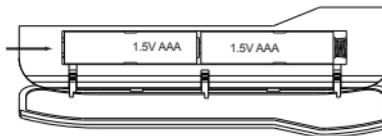
# THERMOSTAT QUICK REFERENCE

## Battery Door Information



Use the finger bevel on the lower portion of the thermostat to open the easy access battery door.

Replace with 2xAAA Alkaline Batteries. High quality Alkaline batteries are recommended.



### Caution:

When the low battery icon  appears replace your 2x AAA batteries immediately. Failure to do so may result in your heating and cooling system becoming inoperable. Freezing or overheating can occur.

## THERMOSTAT QUICK REFERENCE



### Important

The low battery indicator is displayed when the 2x AAA batteries need to be replaced.

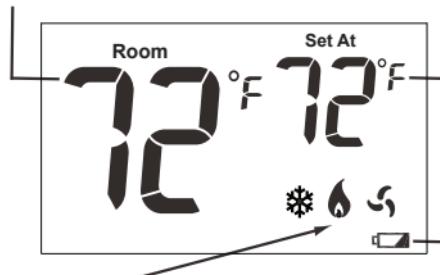
## THERMOSTAT QUICK REFERENCE

### Room Temperature:

Indicates the current room temperature.

### Setpoint Temperature:

Displays the selected setpoint temperature.



### System Operation Indicators:

The , or icon will display when the COOL, HEAT or FAN is on.

**NOTE:** The compressor delay feature is active if these icons are flashing. The compressor will not turn on until the 5 minute delay has elapsed.

### Low Battery Indicator:

Replace batteries when indicator is shown.

## ADJUSTING THE TEMPERATURE DIFFERENTIAL

### HEAT DIFFERENTIAL OR SWING

Select **HEAT** with the system switch, hold down the + and - buttons together for 3 seconds to access the HEAT SWING setting. Use the + or - key to adjust the swing from  $\pm 0.2^{\circ}\text{F}$  to  $\pm 2^{\circ}\text{F}$ . Wait approximately 15 seconds or slide the system switch to return to normal operation

### COOL DIFFERENTIAL OR SWING

Select **COOL** with the system switch, hold down the + and - buttons together for 3 seconds to access the COOL SWING setting. Use the + or - key to adjust the swing from  $\pm 0.2^{\circ}\text{F}$  to  $\pm 2^{\circ}\text{F}$ . Wait approximately 15 seconds or slide the system switch to return to normal operation.

## INSTALLATION SETTINGS

Select **OFF** with the system switch, hold down the + and - buttons together for 3 seconds to access the CALIBRATION setting. Use the + to adjust the temperature from -4°F to +4°F.

Then press - to access the F(Fahrenheit) or C(Celsius) setting, use + to select.

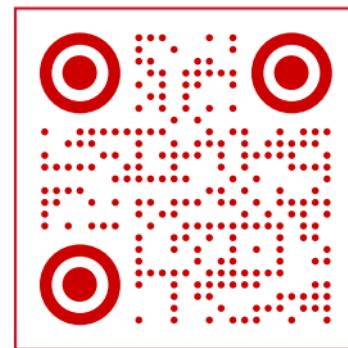
Press - again to access the DELAY selection, the compressor delay will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Use the + to select **ON** or **OFF** (ON: the Y terminals will turn off for at least 3 minutes). Wait approximately 15 seconds or slide the system switch to return to normal operation.

## TERMINAL DESIGNATIONS

- RH ..... 24 VAC (system power supply) HEAT
- RC ..... 24 VAC (system power supply) COOL
- C ..... Common 24 VAC (system power supply)
- W ..... HEAT
- Y ..... COOL
- G ..... FAN
- B ..... REV VALVE HEAT
- O ..... REV VALVE COOL



Customer Service +1.800.304.6563  
Technical Service +1.800.445.8299  
HVACCustomerService@robertshaw.com  
www.robertshaw.com • 352-00309-001



**6** Year  
Limited  
Warranty

Use Phone  
to Scan for  
Warranty Info