

**Touch Screen Wireless Weekly Programmable (5+1+1) Heating Thermostat
R309SET**



R309 Temperature Controller

RCV309 RF Receiver

Operating Modes: Manual Mode, Automatic (5+1+1 Programmable, 6 Time Zones), Comfort, Energy Saving, and Frost Protection

Size of LCD Display: 80x55.8mm(3.15x2.20")

R309 is transmitter, 2xAA batteries-powered

R309 receiver, main powered

Application

R309 is used to control the room temperature in Heating or Cooling systems. Typically applications include:

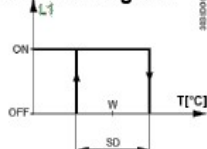
- ☐ Homes
- ☐ Residential buildings
- ☐ Schools
- ☐ Offices

The Controller can be used together with following equipment or device:

- ☐ Thermal Valves or Zone Valves
- ☐ Combi Boilers
- ☐ Gas or Oil Burners
- ☐ Fans
- ☐ Pumps

Specification

※ **Function Diagram**



- T** Room Thermostat
- SD** Switching differential (1K)
- W** Room temperature setpoint
- L1** Output Signal for Heating

※ **General Information**

Casing Material: ABS & Acrylic
LCD Backlight: 80x55.8mm(3.15x2.20")
Power Supply: R309 3V DC (2 x AA1.5 V)

Current Load: RCV309 220 or 110 ± 10% Vac, 50/60Hz
Ambient Temp. Range: 0~99.5°C
Setpoint: 5~45°C/41~113°F (Comfort Mode)
 5~45°C/41~113°F (Energy-saving Mode)
 5~15°C/41~59°F (Holiday Mode)
Accuracy/Tolerance : ±0.5°C **Timing Tolerance :** <1%
Thermistor : 10KΩ@25 °C
Storage Conditions Temp. : -10~60 °C **Humidity:** < 90% r.h.
RF Module: Semi-duplex Module
Frequency: 433 Hz(defaulted) , 846 Hz(customized)
Backup Setpoints and other parameters is able to retained when batteries are replacing, except Time setting(If replacing batteries quickly, time setting should be retained as well). Please check and set the time again if it is lost.

※ **Display Icons & Buttons**



- Display**
- 1. Week day: from Monday to Sunday
 - 2. Number of Programmable Time Zones
 - 3. Room Temperature
 - 4. Buttons Lock
 - 5. Battery Consumption Indication
 - 6. Time of day (00:00..23:59)
 - 7. Heating is on
 - 8. Comfort Mode
 - 9. Manual Mode, setpoint is temporarily overridden until switching to next programmable time zone.
 - 10. Automatic Programmable Mode: 5+1+1, 6 time zones
 - 11. Energy Saving Mode
 - 12. Frost Protection Mode
 - 13. Setpoint, or Floor Temperature (It displays when external sensor is activated).
- Buttons**
- 14. Modes selecting or Time setting, etc.