



## ROOM THERMOSTAT ZRT600

For Low Voltage and Line Voltage  
Control of Valves, Relays and Fan Motors  
in Fan Coil or Heat Pump Units

### General

The ZRT600 Series room thermostats provide on/off control, consistent performance and contemporary styling. The series controls a variety of two-pipe and four-pipe fan coil systems as well as other heating and cooling applications.

ZRT600 is an electro-mechanical thermostat for room mounting. The sensing element is a gas-filled bellow with stainless steel membrane which reacts to change in temperature by creating a movement as a switching function. The thermostat can also control the fan speed with three position continuously or automatically with the temperature switching action.

### Features

- Attractive contemporary styling
- High quality bellow-type sensor provides constant and close
- Temperature differential over the whole temperature range
- No heat anticipators required
- System "OFF" position breaks all circuits
- Simple on-site set-point re-calibration
- All slide switches for ease of operation
- Easy wire termination
- Optional set-point range limit stops available to conserve energy
- Customization available

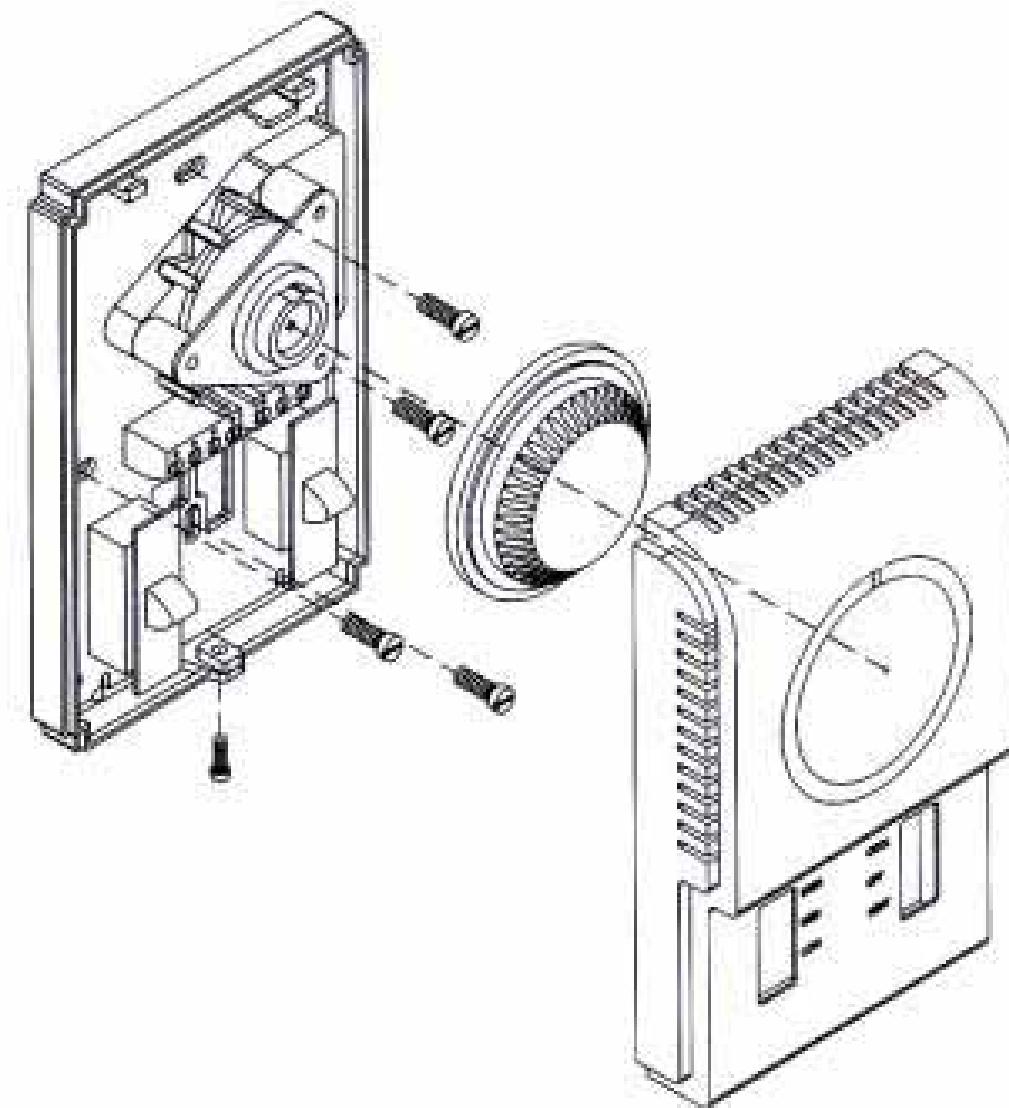
### Ordering Instruction

To order, please specify complete product model number.



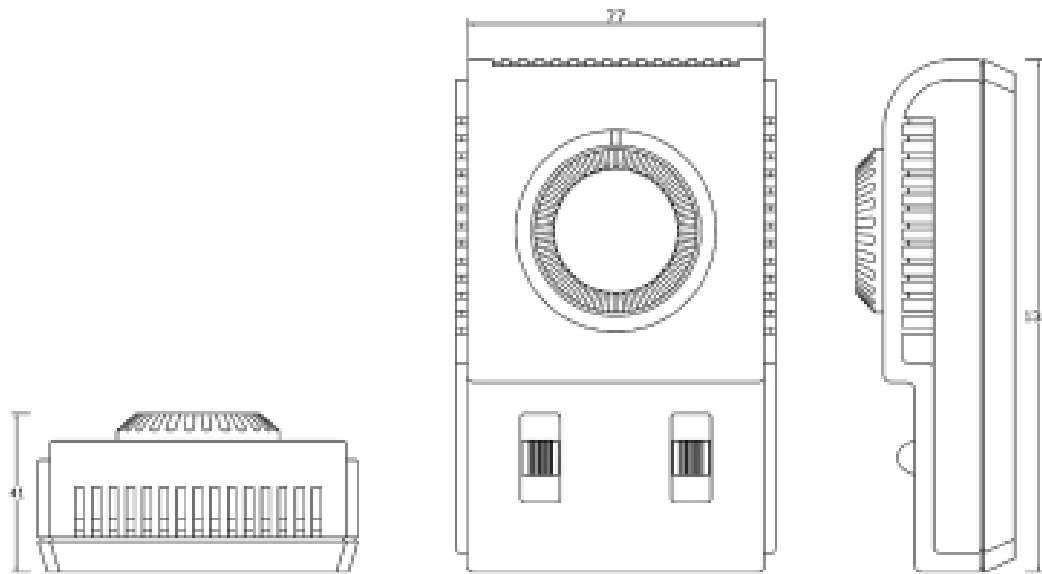
### Mounting

The ZRT600 Series thermostats can be wall mounted or secured onto a standard European 75x75x35mm or a standard American 2" x 4" electric box, please see mounting illustration.



Specification					
Operation Differential	Approximately 1K				
Range	8 ... 30°C				
Sensing Element	Bellow-type				
Housing Materials	Self-extinguishing, molded ABS				
Electrical Rating	<table border="0"> <tr> <td>thermostat</td> <td>6(1)A cooling, 6(1.5)A heating, 24-227 V 50/60Hz</td> </tr> <tr> <td>switches</td> <td>6A resistive, 4A inductive, 24-227 V 50/60Hz</td> </tr> </table>	thermostat	6(1)A cooling, 6(1.5)A heating, 24-227 V 50/60Hz	switches	6A resistive, 4A inductive, 24-227 V 50/60Hz
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switches	6A resistive, 4A inductive, 24-227 V 50/60Hz				
Ambient Limitation	0 ... 50°C				
Wire connection	Screw-down connection, wire size 1mm <sup>2</sup> or 18AWG				
Agency Approval	CE compliant				
Shipping weight	210g				

# ROOM THERMOSTAT ZRT600



Series	Types	Applications	Option 1	Option 2
<b>ZRT6</b>	<b>0</b>	<b>1</b>	<b>F</b>	<b>0</b>

Model		601	601A	602	602A	603	612
Application	Ventilation		X		X		X
	2-pipe	X	X	X	X		X
	4-pipe					X	
	Heat pump						
	Air conditioner						
	General purpose						
Control	Cooling only/Heating only	X	X				
	Cool/Heat	X	X	X	X	X	X
	Changeover (auto or manual)	Auto	Auto	Manual	Manual	Manual	Manual
	Fan Control (Auto or Cont.)	Cont.	A or C	Cont.	A or C	Cont.	A or C
	3-speed fan control	X	X	X	X	X	
	1-speed fan control						X
	On-off system switch	X	X				X
	Cool-Off-Heat system switch			X	X	X	
Option 1		Option 2 (Omitted if not used)					

F = Fahrenheit

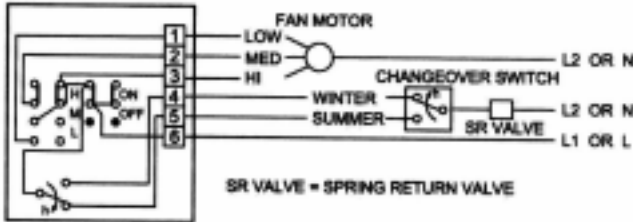
NL = No logo

A = auto fan running

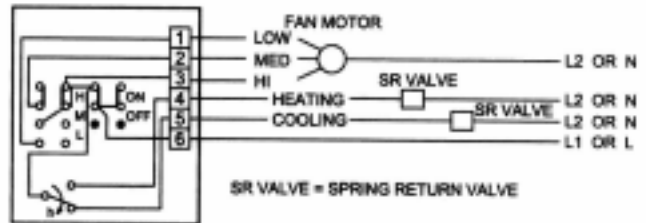
O = other housing color

## Application Wiring Diagram

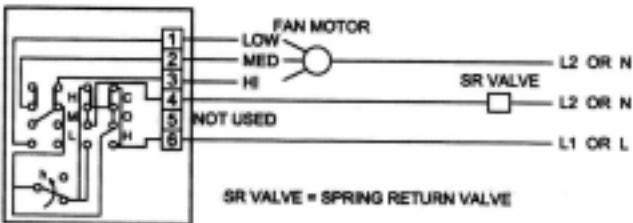
**RT601**  
HEATING/COOLING 2-PIPE SYSTEM  
WITH AUTOMATIC CHANGEOVER



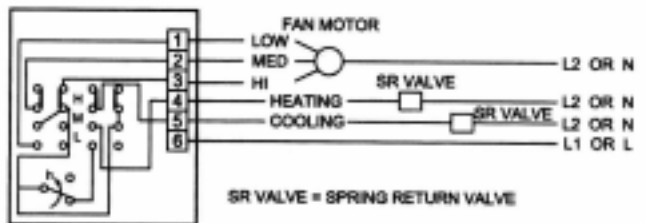
**RT601**  
HEATING ONLY OR COOLING ONLY  
2-PIPE SYSTEM



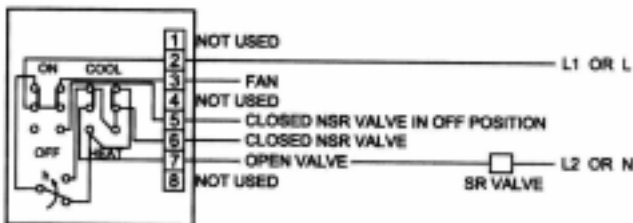
**RT602**  
HEATING/COOLING 2-PIPE SYSTEM



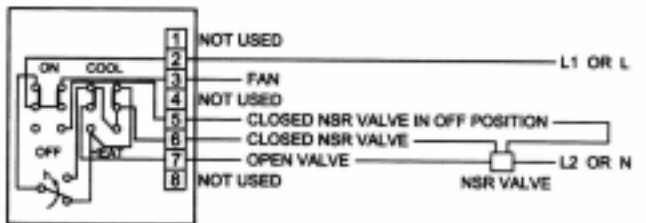
**RT603**  
HEATING/COOLING 4-PIPE SYSTEM



**RT612**  
HEATING/COOLING 2-PIPE SYSTEM  
WITH SPRING RETURN VALVE



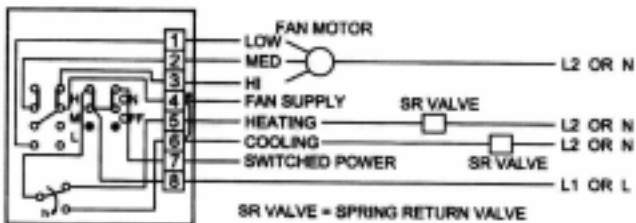
**RT612**  
HEATING/COOLING 2-PIPE SYSTEM  
WITH NON-SPRING RETURN VALVE



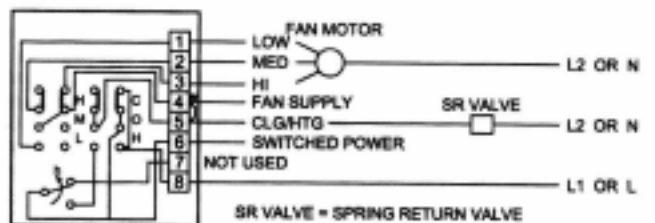
SR VALVE = SPRING RETURN VALVE  
NSR VALVE = NON-SPRING RETURN 3-WIRE VALVE

SR VALVE = SPRING RETURN VALVE  
NSR VALVE = NON-SPRING RETURN 3-WIRE VALVE

**RT601A**  
HEATING ONLY OR COOLING ONLY  
2-PIPE SYSTEM



**RT602A**  
HEATING/COOLING 2-PIPE SYSTEM



- \* A. FOR CONTINUOUS FAN RUNNING, JUMPER TERM 4 & 7.
- \* B. FOR AUTO FAN RUNNING AND COOLING ONLY APPLICATION. JUMPER TERM 4 & 6 (FACTORY SET).
- \* C. FOR AUTO FAN RUNNING AND HEATING ONLY APPLICATION. JUMPER TERM 4 & 5.

- \* A. FOR CONTINUOUS FAN RUNNING, JUMPER TERM 4 & 8.
- \* B. FOR AUTO FAN RUNNING, JUMPER TERM 4 & 5 (FACTORY SET).