

Datasheet

RT52 and RT52-RF Day/Night Thermostat with Timed Set-back Cancellation

Features



The RT52 is a simple to use digital room thermostat that incorporates a Day/Night feature. The "Night" feature, which is manually initiated by the user, allows the building to be heated to a lower level over night or during unoccupied periods. A built-in clock allows the user to select the time of day at which the unit will return automatically to "Day" temperature setting.

The thermostat incorporates a large easy to read display that clearly shows the current room temperature in large characters, together with the required temperature in smaller characters. The display also incorporates an additional character that informs the user that the thermostat is in either "Day" or "Night" operating mode.

During normal "Day" operation, the user is able to select the required temperature by using either the ▲ or ▼ buttons. To enter "Night" mode both the ▲ and ▼ buttons are pressed together. The user can then adjust the required temperature using either the ▲ or ▼ buttons. This temperature will then be used during all subsequent "Night" periods, unless changed by the user. The "Night" mode will automatically cancel at the time programmed. The thermostat can also be returned to "Day" mode by pressing both the ▲ and ▼ buttons together for a second time.

The RT52-RF is a wireless, radio-controlled version of the hard-wired RT52 and is an ideal control for use in situations where it is not practical or acceptable to run cables between the room thermostat and the other control components in the system. Using radio transmissions, the RT52-RF communicates instructions to a receiver unit, type RX, which can be located up to 30 metres away from the thermostat. Each RT52-RF thermostat has a unique digital identity code which is learnt by the appropriate channel of the receiver during commissioning.

The receiver unit is available in three versions offering either one, two or three zones of control, each zone requiring its own RT52-RF thermostat. Any RT52-RF can be tuned or re-tuned to any receiver channel.

The RT52-RF thermostat offers identical functionality to that of the hard wired RT52 version, except that the relay function is moved from the thermostat to the RX receiver unit.

Thermostat Specifications

Features	RT52	RT52-RF
Order Code	087N699700	087N700100
Temperature Range	Day: OFF, 5-30°C Night: OFF, 5-30°C	
Heating thermostat with manually selected Night & Auto Day operation	●	
User overrides	Adjust "Day" temperature Adjust "Night" temperature Select "Day" or "Night" mode	
Factory pre-set programme (can be changed)	Day 20°C, Night: 15°C (Automatic return to Day mode at 06:30)	
Contact current rating	3 (1) A, 10-230 Vac	N/A
Switching action	SPDT volt free	N/A
Transmitter frequency	N/A	433.92MHz
Transmitter range	N/A	30 metres max.
Power supply	2 x AA/MN1500/LR6 alkaline batteries plus capacitor (no programming loss on battery change)	
Maximum ambient temperature	45°C	
Dimensions (mm)	110 wide x 88 high x 28 deep	

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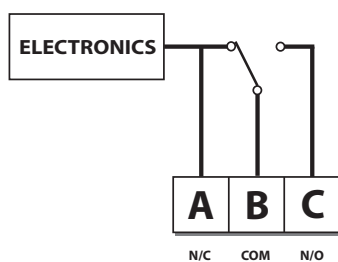
RT52 and RT52-RF Day/Night Thermostats

Receiver Specifications (RF Models only)

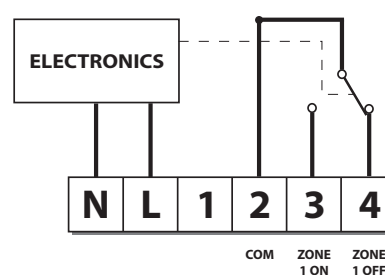
Receiver Features	RX1	RX2	RX3
Order Codes	087N747600	087N747700	087N747800
Single channel receiver module, works in conjunction with one thermostat	●		
Two channel receiver module, works in conjunction with two thermostats		●	
Three channel receiver module, works in conjunction with three thermostats			●
Transmitter code self learning feature	●	●	●
Receiver Frequencies	433.92 MHz		
Supply Voltage	220/240 Vac, 50 Hz		
Output relay current rating	3 (1) A		
Output relay configuration (commons linked internally)	1 x SPDT	1 x SPDT 1 x SPST	1 x SPDT 2 x SPST
Memory retention	Memory retained electronically on power down		
Dimensions (mm)	138 wide x 88 high x 32 deep		

Wiring Details

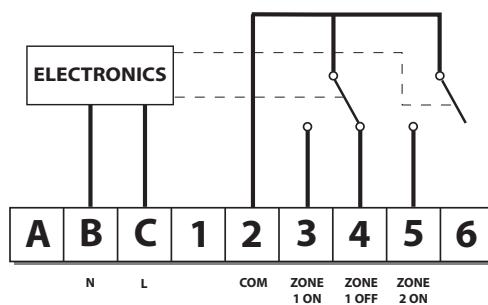
RT51



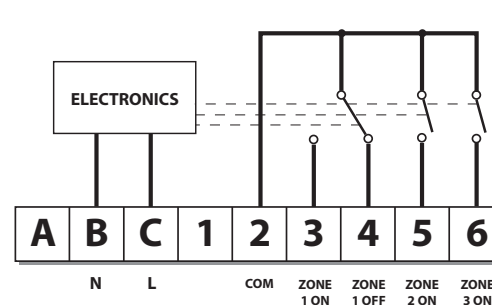
RX1



RX2



RX3



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