RTC SERIES



RTC10

ELECTRONIC ROOM THERMOSTAT

The **RTC10** thermostat is an ideal replacement or alternative to mechanical thermostats, having a far superior accuracy and response time. The thermostat is designed to be used in conjunction with a remote System ON/OFF Switch or a Time Clock. The **RTC10** has one Normally Open Relay contact which can be set via a

jumper to energise on Heating or Cooling. The set point adjuster can be concealed or exposed.

Features

- Australian made and designed.
- Dual supply voltage 24v or 240v A.C
- 8 AMP (Resistive) Voltage free relay contact.
- L.E.D Indication of selected output function.
- One Normally Open Relay contact which can be set via a jumper for a Heating **or** Cooling function.
- Concealed or exposed set point adjustment.



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RTC-10

Technical Specifications

Power supply Power consumption 240 volts Power consumption 24 volts

Heating or Cooling relay output. One Normally Open Contact set via Jumper 1

Jumper 1 Setting (Heat/Cool Select Function)

Temperature range Switching differential

Output indication is determined by Jumper 1 position.

24VAC or 240VAC 7 VA 1 VA

240VAC 8 amp resistive 2.5 amp inductive

Top Position = Relay energises on temperature increase (Cooling Mode).

Bottom Position = Relay energises on temperature decrease (Heating Mode).

16 to 28 Degrees Centigrade 0.5 Degrees Centigrade

Green LED for Cooling Red LED for Heating



Electrical Schematic



Electrical Schematic for COOLING Output



Electrical Schematic for HEATING Output



Quick Test Information

All HEVAC Controllers are Factory Calibrated and Pre-set to Industry Standard Defaults prior to dispatch. If you require further information on these Settings please Refer to the Technical Specifications Page. The RTC-10 Electronic Room Thermostat is equipped with a TEST Facility Jumper on the Circuit Board. Follow these Steps to perform a Quick Test.

STEP 1: Remove the shorting jumper J2 from the NORM Position and place it in the TEST Position. (Simulates a 22oC Setpoint)

STEP 2: Confirm position of shorting jumper J1, if in Top Position (cooling mode) the following applies.

STEP 3: Dial the Setpoint Down and confirm that the COOLING (Green) LED turns ON.

STEP 4: Dial the Setpoint Up and confirm that the COOLING (Green) LED Turns OFF.

STEP 5: Return the TEST jumper back to the NORM Position.

Note: If position of shorting jumper J1, is in Bottom Position (heating mode) the opposite of the above applies. ie. STEP 3: Dial the Setpoint Up and confirm that the HEATING (Red) LED turns ON.

STEP 4: Dial the Setpoint Down and confirm that the HEATING (Red) LED Turns OFF.