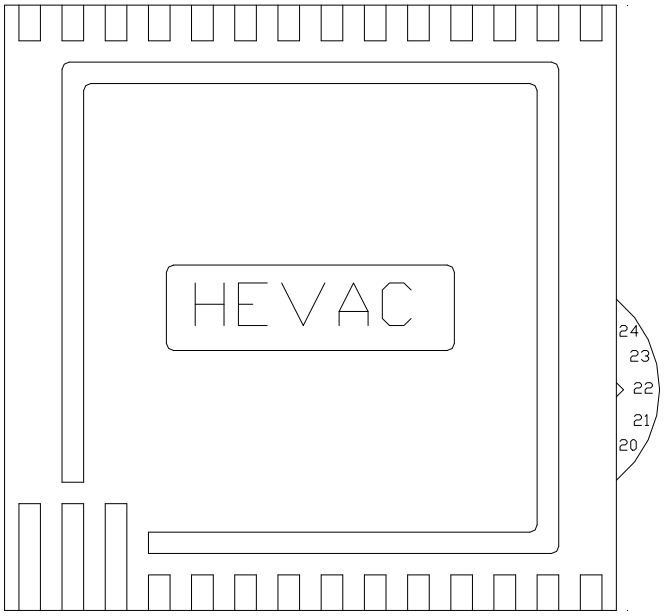
RSC SERIES



RSC-2

WALL MOUNT ROOM SENSOR/CONTROLLER with MODULATING OUTPUTS

*The **RSC-2** is a wall mount room sensor and temperature controller.*

It incorporates a reverse acting and direct acting 0-10VDC modulating output.

*Constructed from high impact ABS plastic, the housing is specifically designed with sensor sensitivity in mind making the **RSC-2** very responsive even in low airflow situations.*

Cable entry is from the rear with side knockouts for cable duct on three sides, allowing for easy electrical installation.

Features

- Australian made and designed.
- Aesthetic neutral coloured cream housing.
- Housing designed to reduce wall temperature offset.
- Large air grilles allowing for maximum air flow sensing.
- Measures radiant heat and air temperature.
- Incorporates a user Test facility.
- R/A and D/A modulating 0-10VDC outputs.

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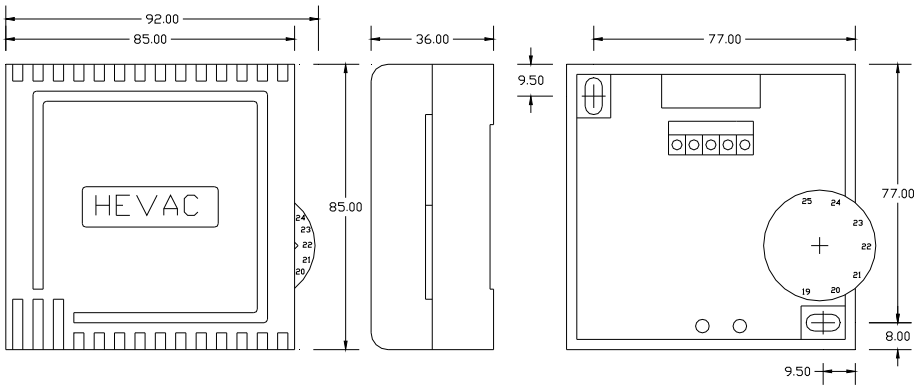
Technical Specifications

Power supply	*24VAC*
Power consumption 24 volts	*1 VA*
Temperature range	*16 to 28 Degrees Centigrade*
Temperature Adjustment-Convertible	*Exposed or Concealed Adjustment*
Reverse Acting Output (YH)	*0-10VDC*
Direct Acting Output (YC)	*0-10VDC*
Deviation Output (Y)	*0-10VDC over full Setpoint Range*
Proportional Band Adjustment (Factory Default = PB LINK UNCUT)	*YH=1.50 YC=1.50 Y=10.0 Degrees C*
Proportional Band Adjustment (PB LINK CUT)	*YH=0.5 YC=0.5 Y=3.0 Degrees C*
DeadZone between Heating and Cooling start	*0.5 Degrees Centigrade*
Output indication (Intensity of ALL LED'S vary with the Signal Output)	*Green LED for Cooling* *Red LED for Heating*
Test Facility Jumper in TEST position (Factory Default = NORM Position)	*Simulates 22.0 Degrees Centigrade*
VAV / FCU OUTPUT JUMPER (Factory Default = F.C.U Position)	*Set to VAV position for VAV Systems* *Set to FCU position for Fan Coil Systems*

Dimensions



ALL DIMENSIONS IN MILLIMETRES

7G X 45mm RECOMMENDED SCREW SIZE

Terminal Designations

G	24 VOLT AC SUPPLY ACTIVE
Go	24 VOLT AC SUPPLY GROUND REFERENCE
Y	0-10VDC DEVIATION OUTPUT
YH	0-10VDC REVERSE ACTING HEATING OUTPUT
YC	0-10VDC DIRECT ACTING COOLING OUTPUT

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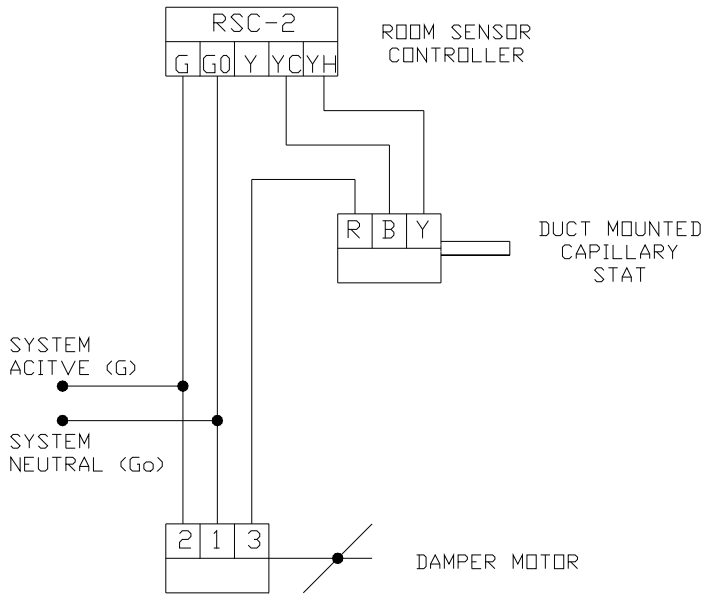
Electrical Schematic for typical Variable Air Volume System



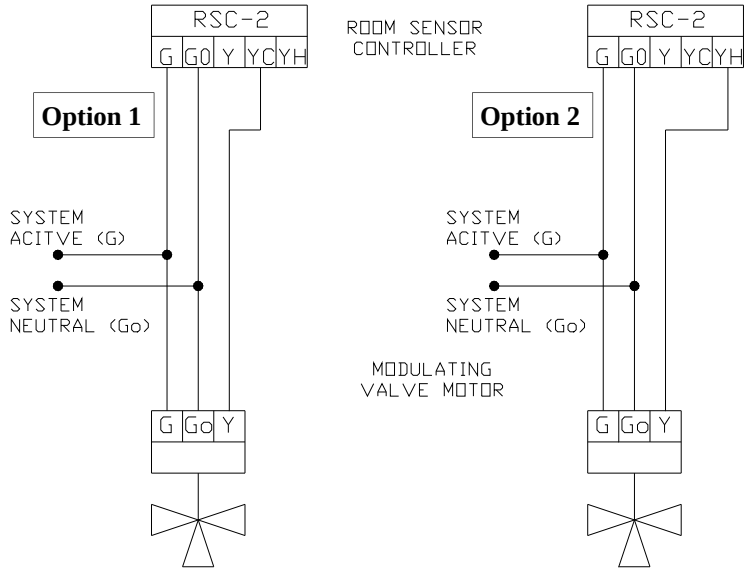
TECHNICAL NOTES

Duct Thermostat
Duct Mounted Capillary Thermostat shown is a PENN Model A19ABC41. This thermostat should be set to 24 Degrees Celsius.

Damper Motors
Damper Motor shown is a BELIMO KM,LM,NM or SM, 24SR Series Motor. Alternative brand damper motors can be used provided they can accept a 0-10VDC Reverse and Direct Acting Control Signal

Supply Voltage
The controller requires a 24VAC Supply. The (Go) terminal on the RSC-2 must be referenced to the ground terminal on the Damper Motor.

Electrical Schematic for Cooling and Heating Valve Configurations



TECHNICAL NOTES

Option 1
Typical Chill Water Valve detail.

Option 2
Typical Heating Water Valve Detail.

Valve Motors
Valve Motor terminals depicted are typical for most European Valves such as TA, SIEBE and LANDIS & STAEFA.

Valves
Valves can be either 2 Way or 3 Way.

Supply Voltage
The (Go) terminal on the RSC-2 must be referenced to the ground terminal on the Valve Motor.

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 RSC-2 Room Sensor/Controller 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 from the NORM Position and place it in the TEST Position.
STEP 2: Dial the Setpoint Up and confirm that the HEATING (Red) LED goes to full brightness.
STEP 3: Dial the Setpoint Down and confirm that the COOLING (Green) LED goes to full brightness.
STEP 4: **Return the TEST jumper back to the NORM Position.**

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