

DSC SERIES



DSC2

RETURN AIR DUCT SENSOR/CONTROLLER with MODULATING HEAT & COOL OUTPUTs

The DSC2 is a combination temperature sensor / controller with individual heating & cooling 0-10vDC outputs. Its primary targeted application is as a low cost standalone basic control solution for modulating heating & cooling actuators based on the return air duct temperature. The outputs are produced with a proportional band of 1.5c each with a dead band start point set at 0.5c either side of its setpoint. The setpoint adjustment is concealed inside the enclosure together with the leds giving a visual indication output levels.

Features

- ☐ Australian made and designed.
- ☐ Separate Heat & Cool 0-10vDC Outputs
- ☐ Heat & Cool start points selectable to suit VAV or FCU
- ☐ Weather proof suitable for installation without cover
- ☐ L.E.D indication of output level
- ☐ Incorporates a user Test facility.
- ☐ Analogue technology for long life & stability.

RSC21.4428+244

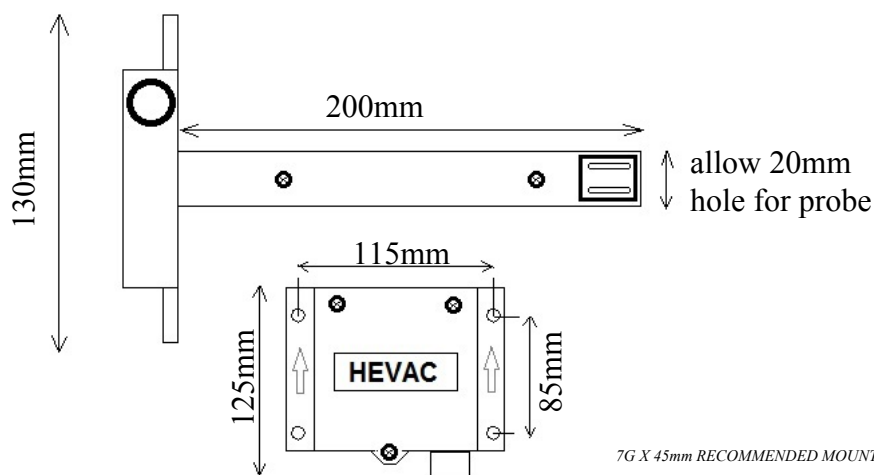
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Technical Specifications

Power supply	24VAC or DC
Power consumption 24 volts	1 VA
Temperature range	16 to 28 Degrees Centigrade
Temperature Adjustment-Convertible	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



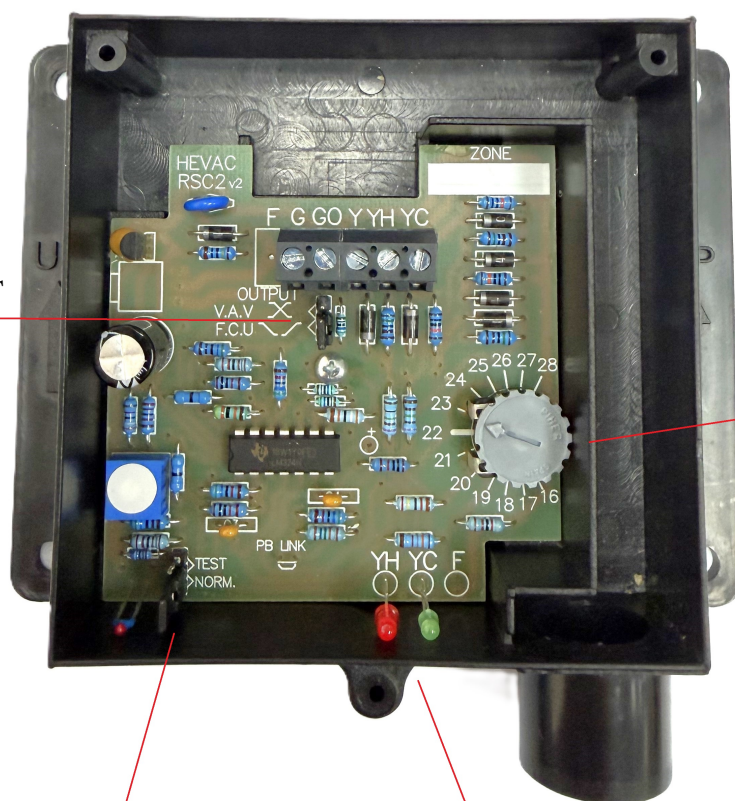
ALL DIMENSIONS IN MILLIMETRES

7G X 45mm RECOMMENDED MOUNTING 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

VAV or FCU
OUTPUT
START SELECT
JUMPER

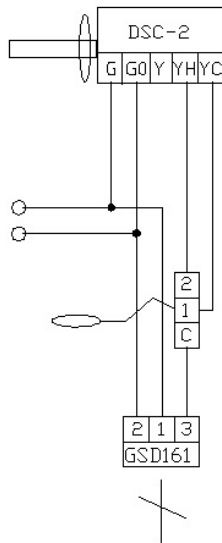


RETURN AIR
TEMPERATURE
SETPOINT

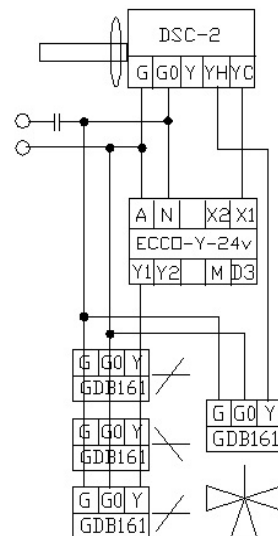
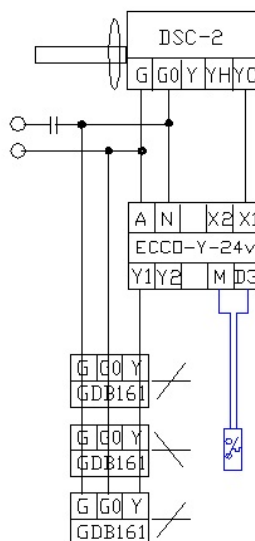
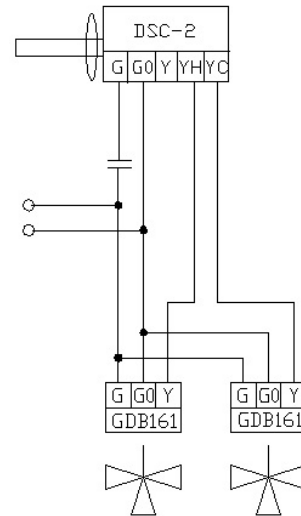
AUTO/TEST
JUMPER

HEATING & COOLING
OUTPUT INDICATION
LED's





Basic pressure
dependent stand alone
VAV system



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 DSC-2 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.**