



INTERIM LEAFLET



ECCO-240v

24v O/A THERMOSTAT

OUTSIDE AIR WALL MOUNT THERMOSTAT FOR INDEPENDANT ECONOMY CYCLE CONTROL OF 2 POSITION ECONOMY CYCLE DAMPERS.

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- Australian Made and designed
 - Power Supply 240v AC
 - 10 Amp (Resistive) Potential free C/O relay contacts
 - L.E.D Indication of all output status
 - Adjustable Low & High Temp. Limits to Allow/Inhibit Economy cycle.
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The ECCO-240v is intended for use as an electronic outside air thermostat designed for independent stand alone control of an economy cycle set of motorised dampers for free cooling when outside temperature is suitable. This solution, although not ideal, is generally the only option if the A/C unit is to be controlled by its propriety thermostat (so called pendant) &/or is sadly not capable of 3rd party control of the A/C units operation & control of additional economy dampers. An optional small (cable tied) bullet thermostat model HMT can also be fitted to the A/C units evaporator coil to force a lockout of economy cycle use if the evaporator face temperature exceeds 30c (as a measurement that the A/C unit is actually running in heating mode). The ECCO thermostat controls on/off two position economy cycle damper motors based purely on outside air temperature measured to be between an adjustable low & high temperature limits. We have produced this product to solve an industry problem, but Hevac still recommend, If possible, using our purpose built ENDEAVOUR temperature / time switch controller together with our wide range of sensors for entire control of the A/C system so that zone temperature control is tied to one common setpoint.

Technical Data

General Specifications

Operating Voltage	240 Volts AC
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Power Consumption	
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240 Volts	
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1 VA

Switching Capacity of Relay	
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Voltage	
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AC 0...250 Volts

Current	
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10 (3) A

Minimum O/A temperature limiter S/P	10...22 oC
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Maximum O/A temperature limiter S/P	22...34 oC
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Switching Differential	
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1 oC (NON Adjustable)

Output Indications	
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Limit Relay operation	
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status by on/off Red LED

D3 input (Forced relay on) status by on/off Red LED

Environmental Conditions

Operation	
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Ambient Temperature	
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0...45oC

Humidity	
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< 95 % RH (Non Condensing)

Storage and Transport	
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Ambient Temperature	
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-5...65oC

Humidity	
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< 90 % RH (Non Condensing)

Product Standards

Built to Australian standards including pcb voltage segregation requirements.

Weight

Including Packaging	
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150 grams

Housing

Colour	
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Black

Material	
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ABS POLYCARB

UV Stabilised	
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YES

Fire Retardant	
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YES

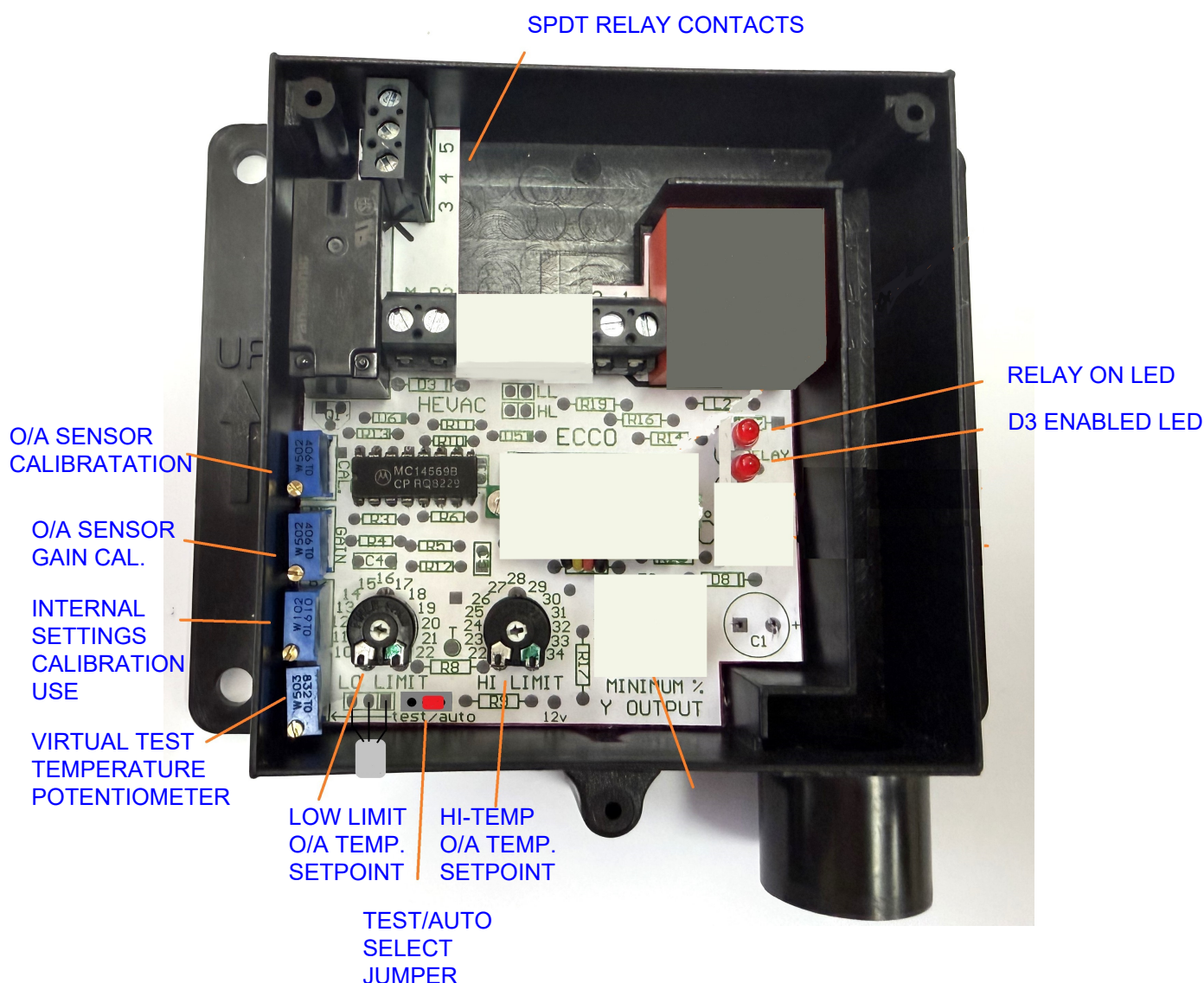
Size	
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L130mm x W120mm x D35mm

Mounting Method	
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Wall mount 4 screw locations

ECCO THERMOSTAT SETTINGS & ADJUSTMENTS



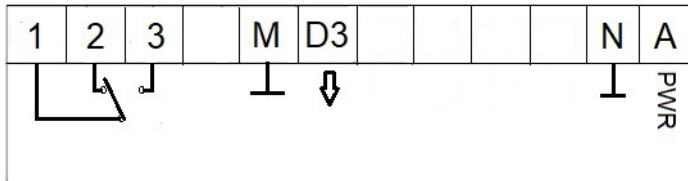
LOW LIMIT POTENTIOMETER USED TO SET LOW O/A TEMP LIMIT TO ENERGISE RELAY TO INHIBIT FRESH AIR MODE OF ECONOMY CYCLE DAMPERS & CAUSE C/O OF CONTACTS ON TERMINALS.

HIGH LIMIT POTENTIOMETER USED TO SET HIGH O/A TEMP LIMIT TO ENERGISE RELAY TO INHIBIT FRESH AIR MODE OF ECONOMY CYCLE DAMPERS & CAUSE C/O OF CONTACTS ON TERMINALS.

A **TEST JUMPER & POTENTIOMETER** IS PROVIDED TO AID IN TESTING & COMMISSIONING WITH USE OF A TEST MODE JUMPER. FOR TESTING RELOCATE THE JUMPER FROM THE NORMAL "AUTO" POSITION TO THE "TEST MODE" POSITION. THE INTERNAL SENSOR BEAD IS DISCONNECTED AND AN ADJUSTABLE POTENTIOMETER IS USED TO SIMULATE AN OUTDOOR TEMPERATURE.

SENSOR CALIBRATION THE ECCO IS FACTORY CALIBRATED BUT CAN BE TRIMMED BY THE TOP LEFT HAND SIDE POTENTIOMETER MARKED "CAL" IF REQUIRED.

Terminal Designations



- 1 RELAY COMMON
- 2 RELAY N/C CONTACT
- 3 RELAY N/O CONTACT
- M SIGNAL GROUND
- D3 RELAY FORCED ON INPUT (from M)
- N 240vAC or DC NEUTRAL POWER
- A 240vAC or DC ACTIVE POWER

Application Example

