HTC SERIES

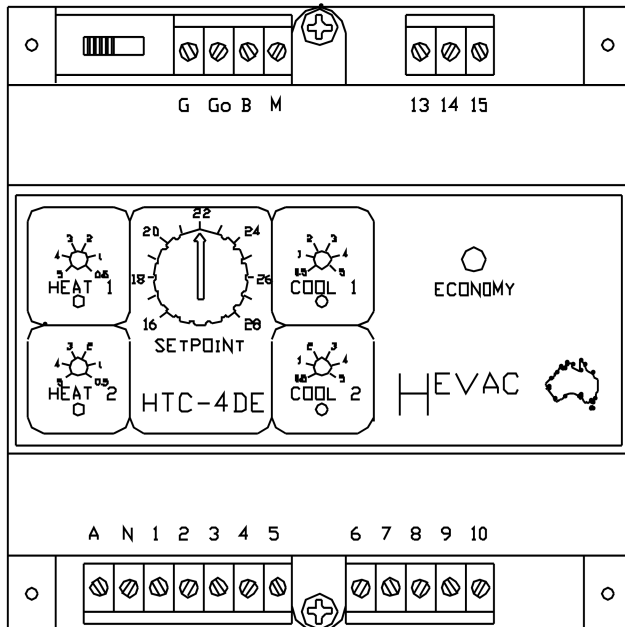## HTC- 4DE

2 HEAT/3 COOL CONTROLLER with MODULATING ECONOMY CYCLE COMPARITOR

The **HTC-4DE** temperature controller is primarily designed for the control of 2 Heat and 2 Cool air-conditioning units, and also incorporates a Modulating Economy Cycle Output with a Comparitor Override.

This output is produced by comparing the outside air temperature to either the return air or room temperatures.

If the **HTC-4DE** is in the cooling mode and the outside air is lower than the room/return air temperature the Economy output will start modulating.

Features

❏ Australian made and designed.

❏ Dual supply voltage 24v or 240v A.C (User Selectable)

❏ 10 AMP (resistive) Potential free relay contacts.

❏ L.E.D Indication of all outputs.

❏ Various remote sensor options available.

❏ Comparitor Override via room or return air sensor.

❏ Modulating 0-10VDC Economy Cycle Output.

AUTOMATED BUILDING SOLUTIONS

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HTC-4DE Technical Specifications

Power supply (User Selectable)	*24VAC or 240VAC*
Power consumption 240 volts	*7 VA*
Power consumption 24 volts	*1 VA*
Heating and Cooling relay outputs	*240VAC 10 amp resistive,3 amp inductive*
Temperature range	*16 to 28 Degrees Centigrade*
Switching differential for STAGE 1	*0.3 Degrees Centigrade*
Switching differential for STAGE 2	*0.7 Degrees Centigrade*
STAGE 1 & 2 start point adjustment range	*0.5 to 5.0 Degrees Centigrade*
Economy cycle output	*0-10VDC*
Economy Cycle Output Proportional Band	*1.0 Degrees Centigrade*
Output indication	*Green LED for Cooling*
	Red LED for Heating
(Located on the right hand side of control fascia)	*Yellow LED for Economy Cycle Output*
Mounting method	*35mm DIN rail (Not supplied)*

Dimensions

ALL DIMENSIONS IN MILLIMETRES
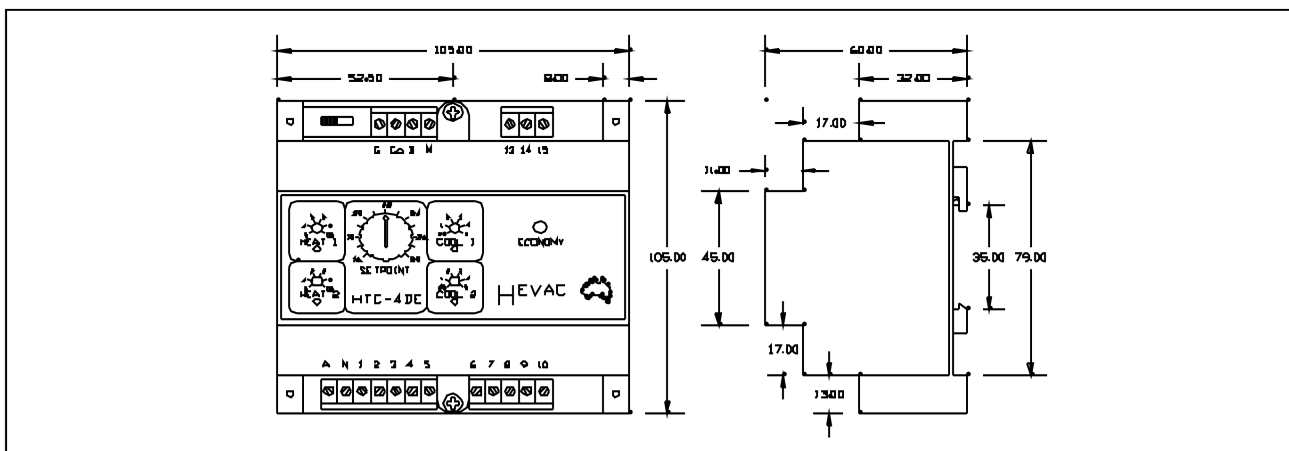
Terminal Designations

G	24 VOLT AC SUPPLY ACTIVE	**2**	HEATING STAGE 2 OUTPUT
Go	24 VOLT AC SUPPLY GROUND REFERENCE	**3**	HEATING STAGE 1 OUTPUT
B	ROOM SENSOR INPUT	**4**	(HEATING STAGE 1 & R/V FOR COOL) COMMON
M	COMMON FOR ALL SENSOR INPUTS	**5**	REVERSING VALVE FOR COOLING OUTPUT
13	0-10VDC ECONOMY CYCLE OUTPUT	**6**	COOLING STAGE 1 OUTPUT
14	RETURN AIR SENSOR INPUT (SEE NOTE BELOW)	**7**	(COOLING STAGE 1 & R/V FOR HEAT) COMMON
15	OUTDOOR SENSOR INPUT	**8**	REVERSING VALVE FOR HEATING OUTPUT
A & N	240 VOLT AC SUPPLY	**9**	COOLING STAGE 2 COMMON
1	HEAT STAGE 2 COMMON	**10**	COOLING STAGE 2 OUTPUT

WHEN A RETURN AIR SENSOR IS NOT USED A WIRE LINK MUST BE FITTED BETWEEN
TERMINALS **B & 14,** AND THE INTERNAL CIRCUIT BOARD **JUMPER** MUST BE REMOVED.