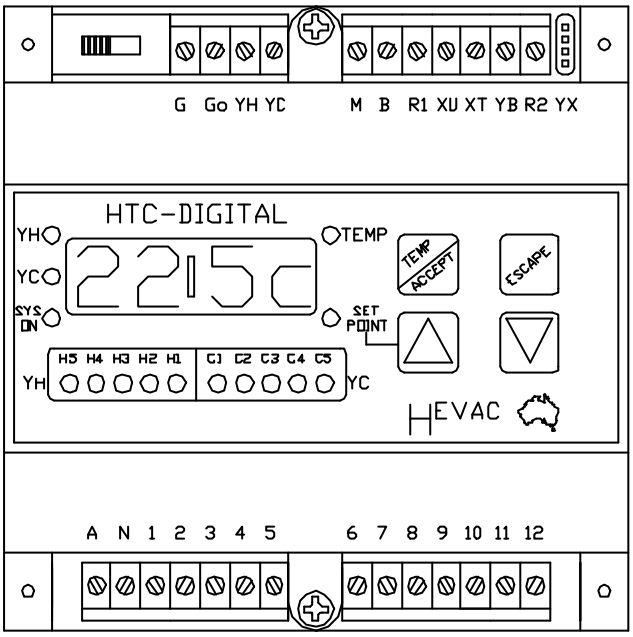
HTC DIGITAL SERIES



HTC- DIGITAL

MICROPROCESSOR BASED MULTISTAGE TEMPERATURE CONTROLLER

*The **HTC-DIGITAL** is a fully programmable microprocessor based temperature controller. This controller is intended for use in air-conditioning applications where the control of ON/OFF stages of heating and cooling and/or sequencing of modulating actuators is required.*

The controllers five relays can each be assigned individual functions and characteristics, and the two analogue output signals can also be programmed individually for start and range.

Features

- Australian made and designed.
- Dual supply voltage 24v or 240v A.C (User Selectable)
- Five programmable 2 AMP (resistive) relay contacts.
- L.E.D display and indication of all outputs.
- Two analogue 0-10VDC Heating and Cooling outputs.
- Selectable preset inbuilt programs.
- Internal self checking software (watchdog).

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HTC-DIGITAL Technical Specifications

Power supply (User Selectable)	*24VAC or 240VAC*
Power consumption 240 volts	*7 VA*
Power consumption 24 volts	*1 VA*
Relay 1 to 5 power ratings	*240VAC 2 amp resistive,0.75 amp inductive*
Temperature setpoint range	*8 to 33 Degrees Celsius in 0.1 increments*
Memory back-up	*Replaceable 5 year 3volt Lithium battery CR1220*
Relay switch ON points (deadband) from setpoint	*0.1 to 9.9 Degrees Celsius*
Relay Hysterisis (switching differential)	*0.3 to 9.9 Degrees Celsius*
Relay energise time delay	*0.1 to 9.9 Minutes*
YH / YC output voltage	*0-10 VDC*
YH / YC start point (deadband)	*0.1 to 9.9 Degrees Celsius*
YH / YC range (proportional band)	*0.1 to 9.9 Degrees Celsius*
Remote set point shift input on Terminal R1 (Potentiometric)	*10 k Pot. Programmable authority of 0 to +/- 9 Degrees Celsius*
Remote set point shift input on Terminal R2 (Voltage)	*0-10 VDC. Programmable authority of 0 to +/- 9 Degrees Celsius*
Unoccupied Economy mode added Deadband	*1 to 9 Degrees Celsius added to both the Heat & Cool Deadband settings*
Terminal YB slave output	*0 to 5 VDC over programmable temperature deviation from setpoint -9.9 to + 9.9 degrees Celsius*
Relay status by RED/GREEN LED bar graph	*RED Heating stage on/ GREEN Cooling Stage on*
Terminal YX output	*RS485 output to PC for remote monitoring and programming use*
SYSTEM ON indication	*YELLOW sys on LED*

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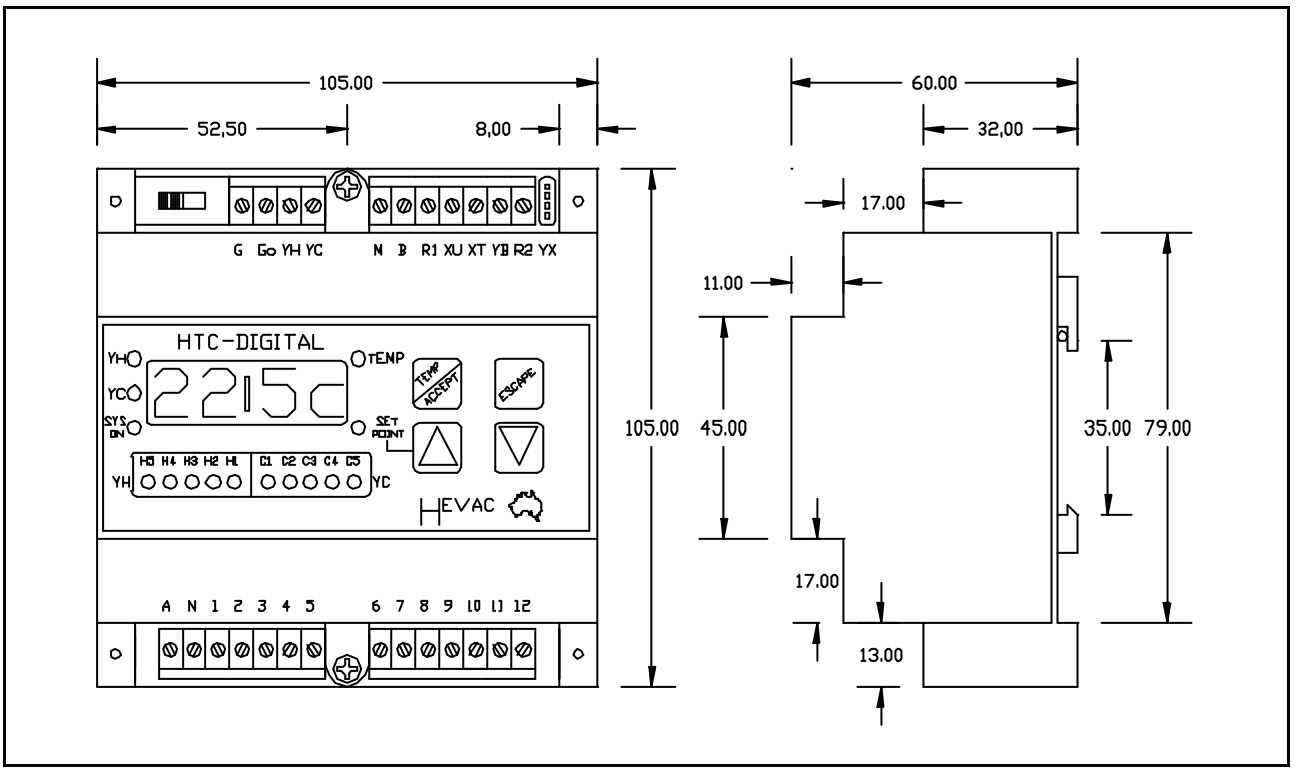
HTC-DIGITAL Terminal Designations

G	24 VOLT AC SUPPLY ACTIVE	**A & N**	240 VOLT AC SUPPLY
Go	24 VOLT AC SUPPLY GROUND REFERENCE	**1**	RELAY ONE COMMON INPUT
YH	0-10VDC HEATING OUTPUT	**2**	RELAY ONE NORMALLY OPEN OUTPUT
YC	0-10VDC COOLING OUTPUT	**3**	RELAY TWO NORMALLY OPEN OUTPUT
M	COMMON FOR ALL MEASUREMENT AND CONTROL INPUTS	**4**	RELAY TWO COMMON INPUT
B	ROOM SENSOR INPUT	**5**	RELAY TWO NORMALLY CLOSED OUTPUT
R1	10 K OHMS REMOTE SETPOINT SHIFT INPUT	**6**	RELAY THREE NORMALLY OPEN OUTPUT
XU	UNOCCUPIED ECONOMY MODE INPUT	**7**	RELAY THREE COMMON INPUT
XT	**NOT USED** (HTC- DIGITAL-TC MODEL ONLY)	**8**	RELAY THREE NORMALLY CLOSED OUTPUT
YB	AUXILIARY OUTPUT	**9**	RELAY FOUR COMMON INPUT
R2	0-10VDC REMOTE SETPOINT SHIFT INPUT	**10**	RELAY FOUR NORMALLY OPEN OUTPUT
YX	RS485 COMMUNICATIONS OUTPUT	**11**	RELAY FIVE COMMON INPUT
		12	RELAY FIVE NORMALLY OPEN OUTPUT

Dimensions

ALL DIMENSIONS IN MILLIMETRES



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