



HTC-BASIC-24v

**LOW COST 24vAC POWERED
REPLACEMENT FOR HTC2 & 4**

**TEMPERATURE CONTROLLER
2 STAGE HEAT + 2 STAGE COOL.**

Features

- **Australian Made and designed**
- Power Supply 24vAC
- 10 Amp (Resistive) Potential free relay contacts
- L.E.D Indication of all outputs
- Various remote sensor options available
- Mounts in most M.C.B din rail enclosures
- Compatibility to a vast range of AC Units & Heat Pumps
- Universal input version also available "HTC-UNIVERSAL"

Use

The **HTC-BASIC** Temperature Controller is designed as a low cost budget simple & reliable replacement for an existing HEVAC HTC2 or 4 temperature controller for the control of upto 2 Stages of Heating and 2 Stages of Cooling on/off relay outputs that are powered from a 24vAC supply (A 240vac version is also available HTC-BASIC-240v).

As per the existing HTC2 & 4 type controllers, the output relays are voltage free permitting use with 12v ~ 240 Volt circuitry as required. The ON/OFF status is still displayed via LED indicators.


The stage deadband turn on points are not adjustable on this budget controller and are fixed at 1 degree intervals which was the typical standard settings on the HTC4. Also as a budget controller there are no variations on this controller, if replacing an extended version of a HTC controller that had extra outputs, a replacement controller of the same type is still available on request, ie HTC4DE.

Another variation of this controller is also now available called **HTC-UNIVERSAL**, which has a selectable input card allowing it to be used as a universal replacement controller for most old analog controllers of other brands with the added ability to even read the existing sensor. The controller as per above has fixed 2H/2C stages plus the addition of 0-10vDC outputs for heating & cooling, its even possible to convert the existing two wire sensor into an adjustable setpoint version which we c

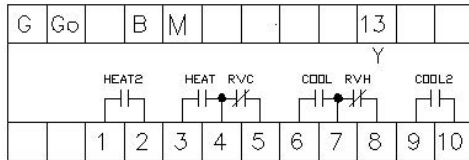


Made in Australia
100% Australian Owned Company

Technical Data

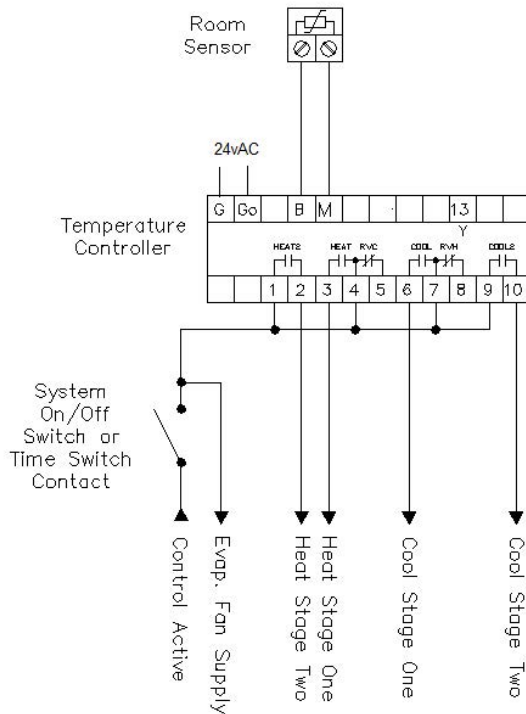
General Specifications	Operating Voltage	24 Volts AC
	Power Consumption	
	At 24 Volts	1 VA
	Switching Capacity of Relays	
	Voltage	AC 0...250 Volts
	Current	10 (3) A
	Setpoint Setting Range	16...28 oC
	Stage 1 turn on point	1.0
	Stage 2 turn on point	2.0
	Switching Differential Stage 1	0.3 oC
Switching Differential Stage 2	0.7 oC	
Output Indication		
Heating	2 x Red LED's	
Cooling	2 x Green LED's	
Environmental Conditions	Operation	
	Ambient Temperature	0...45oC
	Humidity	< 85 % RH (Non Condensing)
	Storage and Transport	
	Ambient Temperature	-5...65oC
	Humidity	< 90 % RH (Non Condensing)
Product Standards	C-tick	 N10842
Weight	Including Packaging	350 grams
Housing	Colour	Grey
	Material	ABS POLYCARB
	UV Stabilised	YES
	Fire Retardant	YES
	Size	L105mm x W105mm x D60mm
	Mounting Method	35mm Din Rail Mountable

- G 24 Volt AC Supply Active
- Go 24 Volt AC Supply Ground Reference
- B Sensor Input
- M Sensor Input Common
- 13 Y Signal Output (For HRC Slave Relay ONLY)



- 1 Heating Stage 2 Common
- 2 Heating Stage 2 Output
- 3 Heating Stage 1 Output
- 4 Heating Stage 1 & R/V for Cool Common
- 5 Reversing Valve for Cool Output
- 6 Cooling Stage 1 Output
- 7 Cooling Stage 1 & R/V for Heat Common
- 8 Reversing Valve for Heat Output
- 9 Cooling Stage 2 Common
- 10 Cooling Stage 2 Output

Application Example (1)

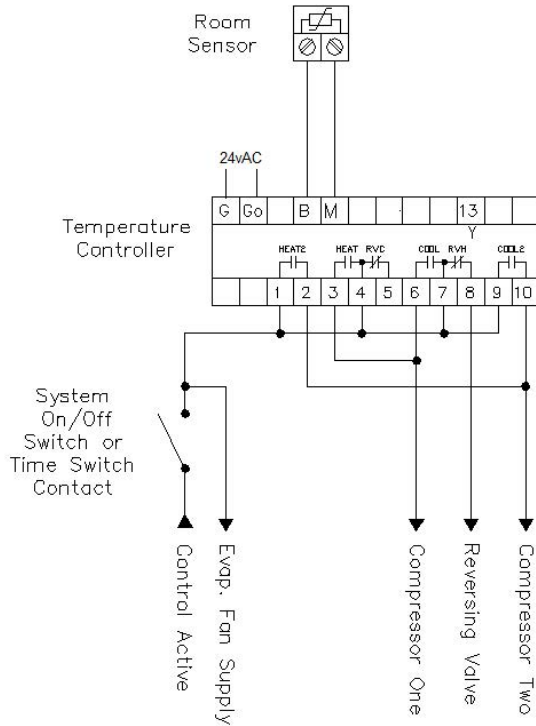


Technical Notes

The Controller requires a 24Volt AC Supply.

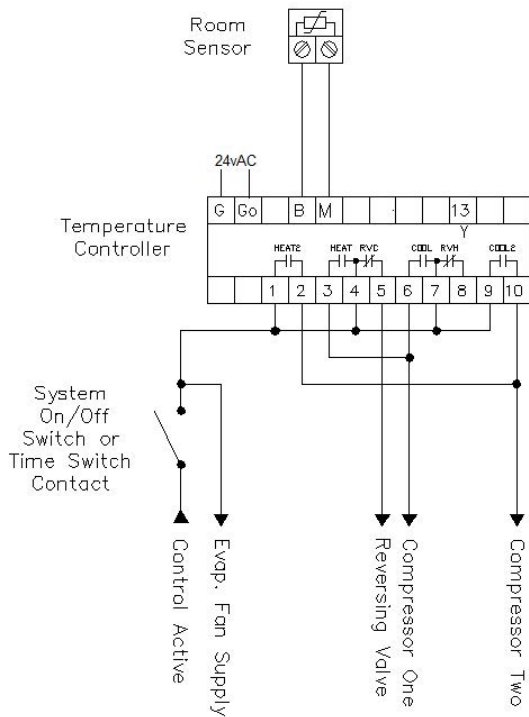
Typical for Heat/Cool type Air-conditioning Units

Application Example (2)



Typical for Compressor Reversing Valve type A/C Units where the R/V energises on Heating

Application Example (3)



Typical for Compressor Reversing Valve type A/C Units where the R/V energises on Cooling