



## STAGING RELAY for HEVAC HTC Analogue Controllers 2 Heat / 2 Cool +STAGE 3

**HRC-43S**

### Features

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- Australian Made and designed
- Power Supply can be either 24V or 240V AC
- 10 Amp (Resistive) Potential free relay contacts
- Adjustable Stage Start points relays stage 1 & 2
- LED Indication of all outputs
- Mounts in most M.C.B din rail enclosures
- Compatible with the HEVAC HTC Analogue Controller Range

### Use

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The HRC-43S Staging Relay is intended for use with the Slave Output on the HTC Analogue Range of Controllers.


The HRC-43S allows you to expand any HTC Analogue Controller with an additional Two Heating and Two Cooling Stages and an additional dedicated stage 3 output fixed to turn on at 3 degrees above & below the controllers setpoint.

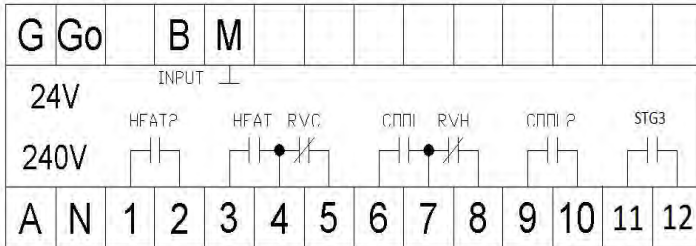
All output relays are voltage free permitting use on either 240 Volt or 24 Volt circuitry.

Stage switch on points are individually adjustable with their ON/OFF status displayed via LED indicators.



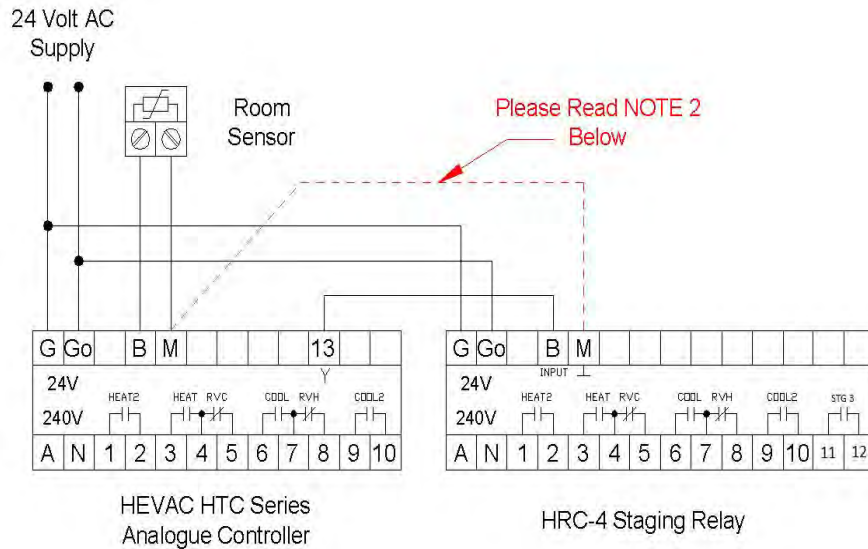
**Made in Australia**  
**100% Australian Owned Company**

General Specifications	Operating Voltage	24 Volts AC or 240 Volts AC
	Power Consumption	
	At 240 Volts	7 VA
	At 24 Volts	1 VA
	Switching Capacity of Relays	
	Voltage	AC 0...250 Volts
	Current	10 (3) Amps
	Input Terminal	
	Input Terminal Voltage	DC 0...10 Volts
	Input Terminal Voltage Range vs Setpoint	0V at 16oC...10V at 28oC
Input Terminal Voltage Range	0...10 Volts over the entire Setpoint Range coming from the controller feeding the HRC4	
Stage Dead Zone	1.0o Celsius (Factory Set)	
Stage Start Point Adjustment	0.5...5.0 oC	
Switching Differential Stage 1	0.3 oC (NON Adjustable)	
Switching Differential Stage 2	0.7 oC (NON Adjustable)	
Output Indication		
Heating	2 x Red LED's	
Cooling	2 x Green LED's	
STAGE 3	1 x Yellow LED	
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		
Weight	C-tick	 N10842
Housing	Including Packaging	450 grams
	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 0-10VDC Input from HTC Controller
- M Input Signal Common/Ground
- A 240 Volt AC Supply Active
- N 240 Volt AC Supply Neutral
- 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
- 11 Stage 3 Common
- 12 Stage 3 Output

### Application Example (1)



### Technical Notes

- Supply Voltage (Note 1)** The Controller requires either a 240Volt AC or 24 Volt AC Supply Above diagram depicts a 24 VAC Connection
- Supply Voltage (Note 2)** If the HRC-43S and the HTC Controller are powered from a 240 Volt AC Supply then a link must be connected as shown above
- Warnings** Use ONE Supply Voltage Only Either 240 or 24 Volts AC