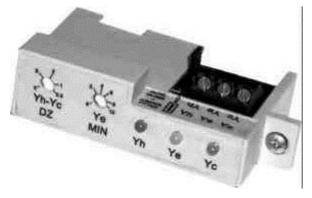
HAX SERIES

HAX-53Y

Auxiliary Plug in Card for HTC5 or HTC3 Series Controllers 3 x 0-10VDC Outputs



The **HAX-53Y** auxiliary plug in card incorporates 3 x 0-10VDC Outputs, Yh for Heating, Ye for Economy Cycle and Yc for Cooling.

The Yh & Yc outputs have a common Dead Zone adjustment ranging from 0.5 to 5.0 Degrees Celsius and the Ye output has a Damper Minimum Position Adjustment ranging from 0 to 10 VDC which is equal to 0 to 100 %. The HAX-53Y has LED status indication for all outputs, and also incorporates a Damper Auto Close Feature which negates the use of an outside air thermostat for Damper Override.

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Australian made and designed.			
Incorporates 3 x 0-10VDC Outputs Yh , Ye & Yc .			
LED Indication of all modulating outputs.			
Can be Plugged into any existing HTC 5 or HTC 3 controller.			
Auto Close feature for Economy Cycle Override.			
Yh & Yc Outputs have Dead Zone Adjustment.			
Damper Minimum Positioner adjustment for Ye Output.			
Compact size and simple to use.			



5 Phillips Street Thebarton SA 5031 ph: (08) 82442844 fax (08) 82442955 sales@automatedcontrols.com.au Damper Auto Close Feature Enabled

HAX-53Y Technical Specifications

Yh Heating Signal Output Range	0 to 10 Volts DC
Ye Economy Cycle Signal Output Range	0 to 10 Volts DC
Yc Cooling Signal Output Range	0 to 10 Volts DC
Yh-Yc Dead Zone Adjustment	0.5 to 5.0 Degrees Centigrade
Yh, Ye & Yc Proportional Band	1.0 Degrees Centigrade Fixed
Ye Damper Minimum Position Range	0 to 10 Volts DC equal to 0 to 100%
LED Indication for Yh Heating Signal Output	Red LED (Intensity varies with signal output)
LED Indication for Ye Economy Cycle Signal	Yellow LED (Intensity varies with signal output)
LED Indication for Yc Cooling Signal Output	Green LED (Intensity varies with signal output)
Damper Auto Close Feature Disabled	Jumper NOT Fitted (Factory Default)

Terminal Designations

Jumper Fitted

Yh	0-10 VDC HEATING OUTPUT
Ye	0-10VDC ECONOMY CYCLE OUTPUT
Yc	0-10 VDC COOLING OUTPUT

Economy Cycle Auto Close Feature Description

The Economy Cycle Auto Close feature causes the Damper motors to revert back to the Return Air Mode 0.2 Degrees before the first stage of cooling would start, this assumes that he Yh/Yc Deadzone is set to 1.0 Degrees Celsius.

What this means is that the Auto Close feature assumes that the fresh air is not suitable for use because the cooling demand in the zone is still increasing.

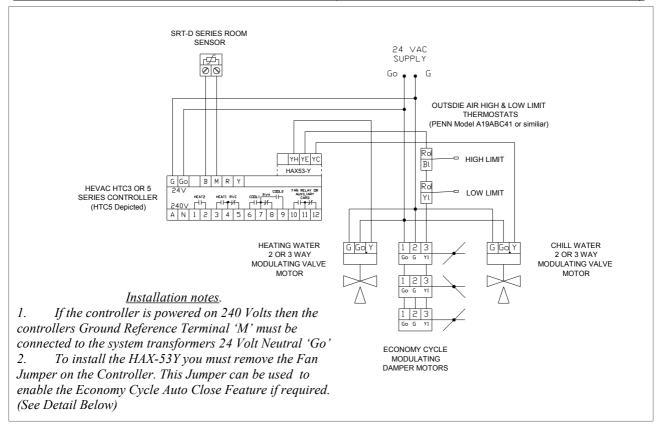
If this feature is not desired it can be disabled by removing the 2 way finger Jumper on the HAX-53Y. If this is done another means of closing the Fresh Air mode would have to be used. (See default Drawing on Page 3)

'Y min' Damper Positioner Adjustment Description

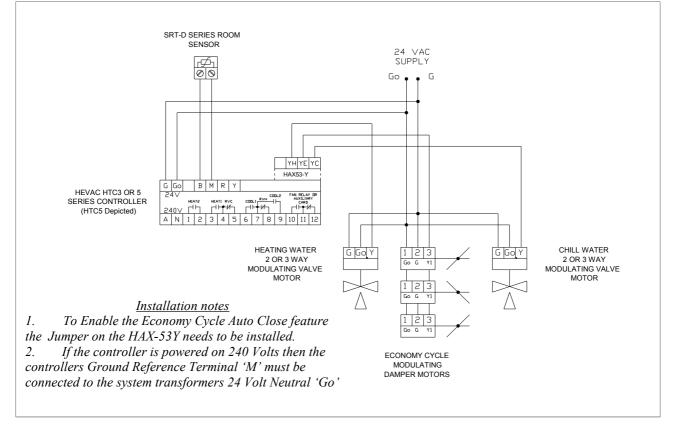
The 'Y min' Damper Positioner Adjustment is to allow the setting of a minimum Fresh Air ratio to be achieved by inhibiting the 'Ye' output signal from dropping below an adjustable amount.

As an example setting the 'Y min' Potentiometer to 3 Volts would be equivalent to a minimum position of 30 % on the Economy Cycle Damper motors.

HAX-53Y DEFAULT WIRING DETAIL (ECONOMY CYCLE AUTO CLOSE FEATURE DISABLED)



HAX-53Y UTILISING ECONOMY CYLCE AUTO CLOSE FEATURE



Other HEVAC Quality Products

HEVAC CONTROLS

SENSORS

- AVERAGING ROOM SENSORS
- DUCT SENSORS
- PIPE SENSORS
- ROOM SENSORS WITH LCD DISPLAY
- REMOTE SETPOINT ADJUSTERS
- ROOM SENSORS WITH VARIOUS SWITCH FUNCTIONS

HTC ANALOGUE CONTROLLERS with the following features

- DUAL SUPPLY VOLTAGE 24 VOLT OR 240 VOLTS AC
- 0 –10 VDC ECONOMY CYCLE OUTPUTS
- COMPARATORS EITHER ON/OFF OR MODULATING
- 0-10 VDC MODULATING CHILL WATER & HOT WATER OUTPUTS
- AUXILIARY ELECTRIC ELEMENT STAGES
- TRIPLE COMPRESSOR HEAT PUMP MODELS
- ON/OFF ECONOMY CYCLE OUTPUTS

RTC ELECTRONIC ROOM THERMOSTATS with the following features

- DUAL SUPPLY VOLTAGE 24 VOLT OR 240 VOLTS AC
- 5 AMP (Resistive) POTENTIAL FREE RELAY CONTACTS
- L.E.D INDICATION OF ALL OUTPUTS
- CONCEALLED OR EXPOSED SETPOINT ADJUSTMENT

HHC HUMIDITY CONTROLLER with the following features

- 0 –10 VDC HUMIDIFICATION OUTPUT
- 0 –10 VDC DE-HUMIDIFICATION OUTPUT
- ON/OFF HUMIDIFICATION OUTPUT
- ON/OFF DE- HUMIDIFICATION OUTPUT
- DC POWER SUPPLY FOR HUMIDITY SENSOR

HDT-6 MULTISTAGE DELAY ON TIMER with the following features

- DUAL SUPPLY VOLTAGE 24 VOLT OR 240 VOLT
- SEVEN USER ADJUSTABLE DELAY SETTINGS
- TEST FACILITY

LT-SERIES LAMP TEST MODULES

IF YOU HAVE A SPECIFIC REQUIREMENT OR REQUIRE FURTHER TECHNICAL ASSISTANCE PLEASE CONTACT OUR FRIENDLY SALES STAFF.

Phone: (08) 82442955 Fax: (08) 82442955

Email: sales@automatedcontrols.com.au Web: www.automatedcontrols.com.au