SLIMLINE

ener stat™

DSL-303
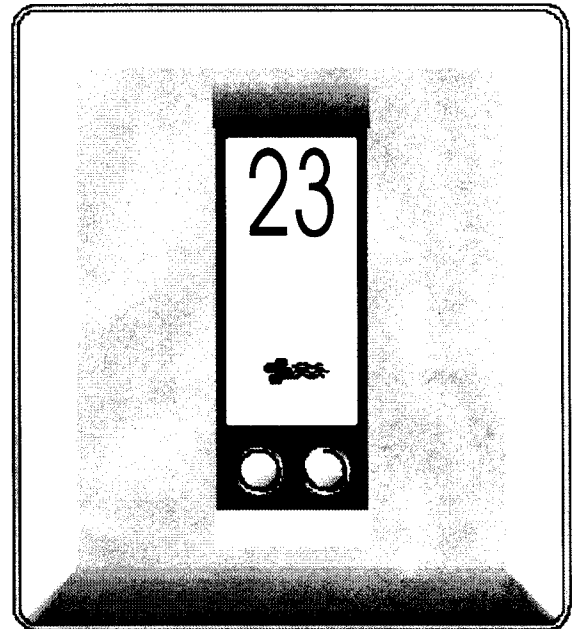### HEATING / COOLING MICROPROCESSOR BASED TEMPERATURE CONTROLLER
1 HEAT / 1 COOL 3 SPEED FAN
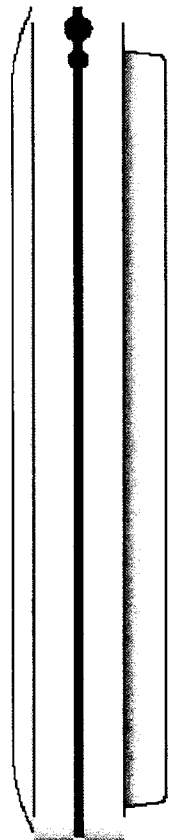
GENERAL DESCRIPTION

The DSL-303 single compressor Microprocessor based controller is designed for new or replacement residential /commercial heat cool applications. The DSL-303 represents the latest in solid-state surface mount electronics and manufacturing techniques incorporated into an extremely low-profile, ultra-slim white ABS plastic case.

The DSL-303 offers "user-friendly" control of the heat cool system with 3 speed fan, along with an easy-to-read vertical LCD that displays complete operating status. A direct-wire, easy-to-install subbase mounts directly on a standard vertical outlet box or any internal wall surface using supplied hardware provided.

STANDARD FEATURES

- Celcius temperature display
- Fan selector 3 speed fan
- Built-in short cycle protection
- Electronic circuitry replaces conventional mechanical anticipator
- Internal switch to lock-out the keypad to prevent unauthorized tampering
- Day/Night button
- No battery required (always maintains program and mode of operation following power outage of any duration).
- Lockable access cover
- Automatic changeover Heat / Cool
- Built-in anticipation and droop
- Independent circuit switching
- Selectable minimum run on/off time (2 or 4 minutes)
- HVAC equipment control using dry contact relays
- Remote indoor sensing modules
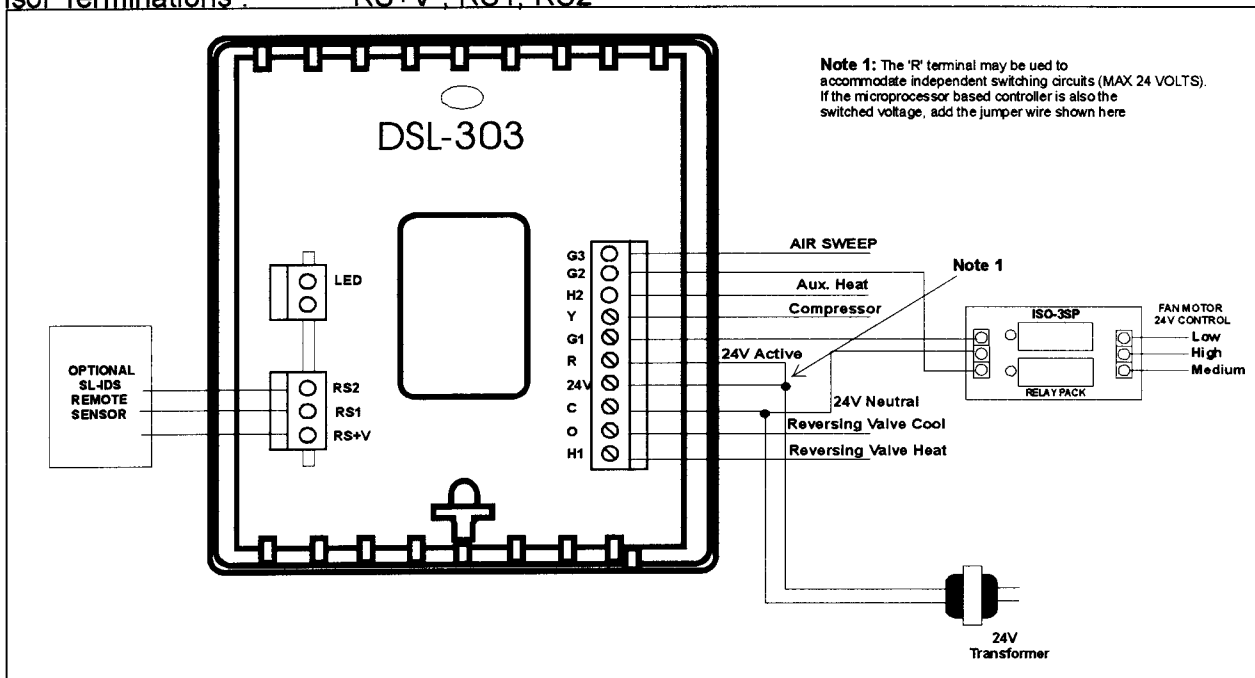- Optional two zone control with ISOPAC6V-123 control interface + sensor switching

ACTUAL SIZE

SPECIFICATIONS

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Rated Voltage :	20 to 30Vac, DC 24 nominal
Rated A.C. Current :	0.05 to 0.75 Amp continuous per output,with surges to 3 Amps maximum
Rated D.C. Current :	0.0 to 0.75 Amp continuous per output,with surges to 3 Amps maximum
Control Range :	Heating : 6 to 30 degC in 1 degC steps
	Cooling : 16 to 40deg C in 1 degC steps
Temperature Controller Measurement Range :	0 to 48 degC
Control Accuracy :	+/- 0.5 degC @ 20 degC
Minimum Deadband :	(between heating and cooling) 1 deg C
Dimensions :	114mm x 102mm x 22mm
Equipment Terminations :	R, O, H1,H2, Y,G1, G2, G3
Power Terminations :	24V - power, 24V(c) - power common
Remote Sensor Terminations :	RS+V , RS1, RS2

DSL-303

Note 1: The 'R' terminal may be ued to accommodate independent switching circuits (MAX 24 VOLTS). If the microprocessor based controller is also the switched voltage, add the jumper wire shown here

LED

OPTIONAL SL-IDS REMOTE SENSOR

RS2
RS1
RS+V

G3
G2
H2
Y
G1
R
24V
C
O
H1

AIR SWEEP

Aux. Heat

Compressor

24V Active

24V Neutral

Reversing Valve Cool

Reversing Valve Heat

Note 1

ISO-3SP

RELAY PACK

FAN MOTOR 24V CONTROL
Low
High
Medium

24V Transformer

OUTPUT TERMINAL FUNCTIONS

Y	Compressor	R	Independant switching voltage
G1	Fan output	24VAC	24 Volts AC Active
G2	Fan output	C	24 Volts AC Common
G3	Air sweep	LED	Free light for status indication (24vac)
H1	Energizes the reversing valve in heat mode	RS2 RS1	Use to connect indoor sensor
O	Energizes the reversing valve in cool mode	RS+V	
H2	Auxilary heat output		