

32964-MP

MINI HEAT & COOL THERMOSTAT

MINOR ASSEMBLY REQUIRED

Compact, microprocessor based, dual threshold digital thermostat with isolated dual relay outputs for cooling and heating applications.

Features:

Auto switching between Heat & Cool Modes
Adjustable Hysteresis
Adjustable Alarms
Heat & Cool Start Delay
Programmable Set Points
Power OFF Memory No need to re-enter settings
Water resistant Probe

Display: 3 Digit 0.56" Red LED
Operating Mode: Dual Red LEDs ("Heat" & "Cool")

Specifications:

Power: 12VAC/DC

Quiescent: <18mA

Relay energized: <30mA

Range: -50 to +110deg. "C"

Resolution: 0.1deg -9.9 to +99.9 "C"
1.0deg. <9.9 & > 99.9 "C"

Accuracy:

Measurement: 0.1 Deg.

Setting: 0.1 Deg.

Hysteresis: 0.1 Deg.

Refresh Rate: 0.5sec.

Sensor: 10K ohm NTC probe (.5m leads with mini connector)

Operating Temp. Range: -10 to 60deg. C; 20-85% humidity

Control Output:

Relay (2): SPST-NO

Rated: 5A@250/125VAC 10A/30VDC

Terminal Strips for Power & Relay contacts.

Board

W: 3-1/8" H: 2" D: 1"

Assembled

W: 3-15/6" H: 2-3/4" D: 1-1/8" Ship WT: .2

Assembly:

- 1: Attach the 4 Brass Spacers to the Board (Nuts on Back)
- 2: Snap on Button Tops
- 3: Bolt on the Plastic Front Panel

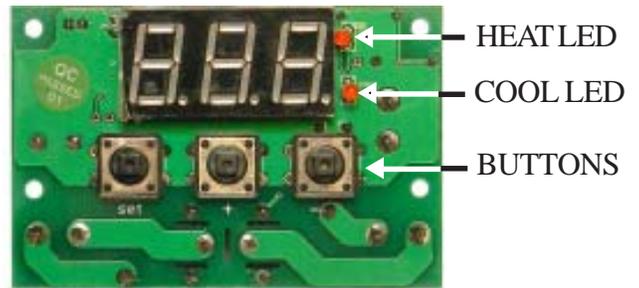
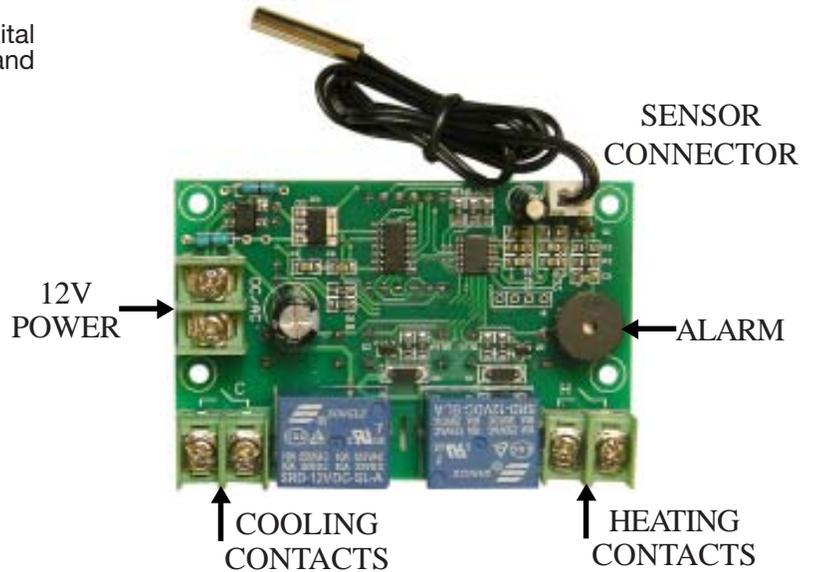
Operation:

Error Indications

Display Shows "LLL" Probe is open, Beeper will pulse

Display Shows "HHH" Probe is Shorted, Beeper will pulse

- 1: Place Controller in desired location along with the probe
- 2: Connect Loads to Controller Relay Contacts (Be sure Load power is off)
- 3: Connect 12VAC/DC Power Supply to Controller
(Display will show ambient temperature at Probe location)
- 4: Press SET button momentarily and the display will flash
Press the + or - buttons to set the desired temperature and "Beep" will sound
Press SET to confirm setting & Exit or Wait ~ 5 seconds



HEAT/COOL LED Display Mode

Cool LED "ON": Cooling Relay Operating
"Flashing": Delay Start Time (as set)
Heat LED "ON": Heating Relay Operating
"Flashing": Delay Start Time (as set)



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Heat/Cool Thermostat

Parameter Chart:

Mode	Function	Range	Default	
P0	Hysteresis	0.1-15deg.	2	Sets the the span between ON/OFF
P1	Correction	-7 to +7deg.	0	Set Offset due to special circumstances
P2	Heat Delay	0-300sec.	0	Sets the Delay time after Set temp. is reached before relay is On
P3	Cool Delay	0-300sec.	0	Sets the Delay time after Set temp. is reached before relay is On
P4	High Alarm	On/Off -50to110	Off/110deg	Set Heat Alarm Point
P5	Cool Alarm	On/Off -50to110	Off/0.0deg.	Set Cool Alarm Point
To return Factory Default Value Press & Hold +&- when powering up				NOTE on Alarms: See Note Below

Setting Parameters:

- 1: Press & Hold SET Button for >5 seconds to enter Menu
 - 1.1: Press the + or - to sequence through the Setup P0-P5
 - 1.1.1: After selection, Short press of SET to show present setting
 - 1.1.2: Press + or - to adjust the settings
 - 1.1.3: Short press of SET to store & return to Parameter setup mode (P0,P1 etc.)
 - 1.1.4: Press the + or - to sequence through the Setup P0-P5
 - 1.2: Repeat 1.1 steps to set other Parameters
 - 1.2A Setting P4 cooling & P5 warming Alarm Set Points
 - 1.2A.1 Follow Step 1.1 to select P4 or P5
 - 1.2A.2 Press SET and present "ON/OFF" setting will appear,
 - If "OFF" Press + or - to alternate ON/OFF
 - If "ON" or after selecting "ON", Press SET to enter adjustment mode.
 - 1.2A.2: Press + or - to adjust the settings
 - 1.2A.3: Press "SET" Display will show the Mode (P4 or P5)
 - 1.4: When finished Hold SET for >5sec.
 - If no changes are made during any setting mode, unit will automatically return to normal operation after ~5sec.

NOTE on Alarms: Under Alarm Condition: Beeper will sound and Display will show "000"

P4: Temperature is Below Set Point. To Reset, Temperature must become Warmer than Set Point
 P5: Temperature is Above Set Point. To Reset, Temperature must become Cooler than Set Point

There is No Manual Silence for the Alarm(s)
 You can remove Power and Reset to Factory Defaults (Press & Hold +&- when powering up)
 This will set the Alarms to "OFF"
 You will have to re-enter all Parameters for all Modes

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