

# 34687-MP

## MINI HIGH TEMPERATURE THERMOSTAT

Compact, microprocessor based, thermostat with isolated relay outputs for heating applications.

Features:

Selectable between Heat or Cool Modes

Adjustable Hysteresis

Adjustable Alarm

Programmable Set Points

Power OFF Memory No need to re-enter settings

High temperature Probe

Display: 3 Digit 0.56" Red LED

Indicator: Red LED for relay activated

Specifications:

Power: 12VAC/DC

Quiescent: <18mA

Relay energized: <30mA

Range: -30 to +999deg. "C"

Resolution: 1 deg.

Accuracy: +/- 2 Deg. "C"

Refresh Rate: ~1sec.

Sensor: Type "K" m6 threaded Stainless Probe

1m Cable

Operating Temp. Range: -10 to 60deg. "C"

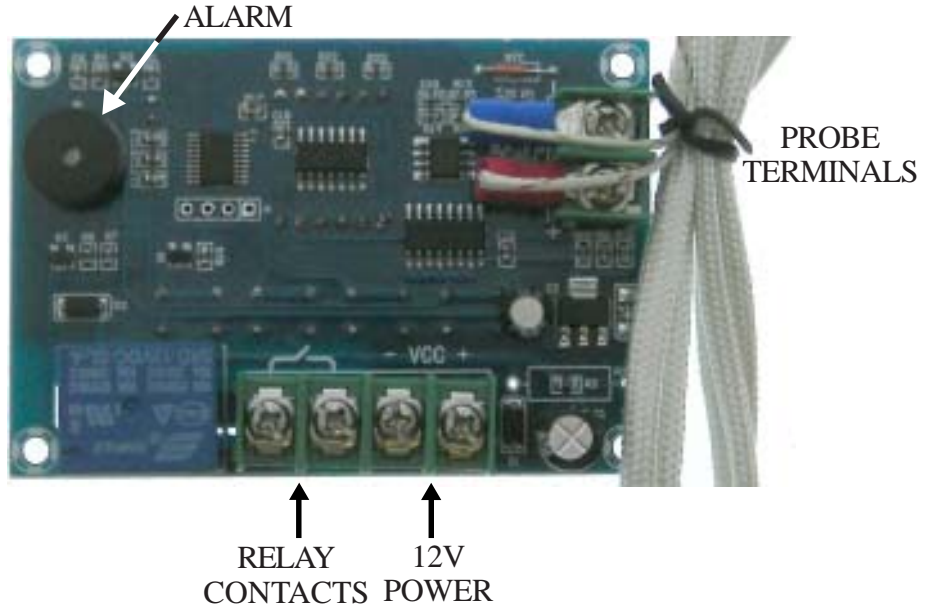
Control Output:

Relay SPST-NO

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

Terminal Strips for Probe, Power & Relay contacts.

W: 3-1/8" H: 2-1/8" D: 1-1/16" WT: .14



### Operation:

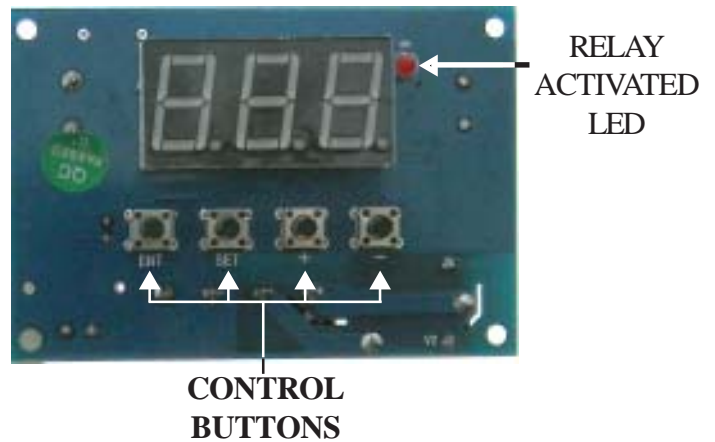
- 1: Place Controller in desired location along with the probe
- 2: Connect 12VAC/DC Power Supply to Controller  
(Display will show ambient temperature at Probe location)

3: Set Parameters as required SEE Page 2

4: Connect Loads to Controller Relay Contacts

**Be sure Load power is off**

5: Turn on Load Power



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### Parameter Chart:

Mode	Function	Range	Default
P0	Mode	Heat/Cool	H
P1	Hysteresis	0-50 "C"	"5"
P2	Temp. Correction	-20 to +20	0
P3	Alarm	0-999deg	Off
To return Factory Default Value Press & Hold +&- when powering up until unit Beeps			

Select Heat or Cool Operation

Sets Span between when relay is On/Off

Correction for Display Reading to Actual Temp. (Calibrate)

High Temp. Alarm : <"Value" No Alarm > "Value" Alarm

**NOTE** on Alarm: See Note Below

### HEAT/COOL MODE P0

1: When in Heating Mode the Relay will Close to activate a heater until desired temperature is reached.

2: When in Cooling Mode the Relay will Close to activate refrigeration equipment until desired temperature is reached

Heating: Set P0 to "H" (Factory Default)

Cooling: Set P0 to "C"

### Setting Parameters:

BEEPER WILL SOUND WHEN A BUTTON IS PRESSED

If no changes are made during any setting mode, unit will automatically return to normal operation after ~5sec.

#### 1: Setting Temperature

Normal Operation the Display is showing actual Probe location Temperature

1.1 Press "SET" Button

Display will show present temperature setting

1.2 Press "+" or "-" Buttons to adjust to the desired Temp.

Note: Holding "+" or "-" will cause an auto rapid change to setting

1.3 Press "ENT" or wait ~5 sec. Unit will auto set and return to Normal operation

#### 2: Setting other parameters

2.1: Press & Hold "SET" Button for >5 seconds to enter Menu

2.2: Press the "+" or "-" to sequence through the Setup of P0-P3

2.2.1: After selection, Short press of "SET" to show present setting

2.2.2: Press "+" or "-" to adjust the setting

2.2.3: Short press of SET to store & return to Parameter setup mode (P0,P1 etc.)

2.2.4: Press the + or - to sequence through the Setup P0-P3

2.3: Repeat 2.1-2 steps to set other Parameters

2.4: When finished Press "ENT" or >5sec.

### NOTE: Over Temperature:

Beeper will sound and Display will Flash

Pressing any Button will silence Beeper but not Discontinue Display Flash

Alarm will stop upon Temperature drop below Alarm setting

Open Probe

Beeper will sound and Display will Flash

Pressing any Button will silence Beeper but not Discontinue Display Flash

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