32934-MP
Mini Thermostat

Compact digital thermostat with isolated relay output and Dual 3 digit 0.28" LED displays.
Features:
C/F Display Selection, Programmable set Point, Cool or Heat control, Hysteresis, Start Delay and High Temp. Alarm.
Control Range: -50 to +110 "C"/-58 to +220 deg. "F"
Dual Display: Ambient Temp. and Set Point Temp.
Front Panel Selection of "F" or "C"
Power: 12VDC
       Current: ~65mA Relay energized
Refresh rate: 0.5sec.
Resolution: 0.1deg. from -9.99 to +99.9
       1.0deg. for above 100deg. C
Accuracy: Measurement : 0.1deg.
       Control: 0.1deg.
Relay: SPST-NO 20A/14VDC; 5A/125VAC
Sensor: NTC waterproof probe (12in. leads)
Temp. Range: -10 to 60deg. "C"; 20-85% humidity
Terminal Strip for Power & Relay contacts.
Cutout: W: 46mm   H: 27mm
W: 1-7/8"   **H:** 1-1/8"   **D:** 1-3/8"   **WT:** .06

SET BUTTON

C/F BUTTON

RELAY ENERGIZED LED

PROBE

POWER

RELAY CONTACTS

Operation:

READ "Parameter" setting on Page 2 to determine if any changes are needed
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 Load to Controller Relay Contacts (Be sure Load power is off)
3: Connect 12VDC Power Supply to Controller
      (Display will show ambient temperature at Probe location and present temperature setting)
4: Press C/F Button as needed to select scale
      4.1 Press SET button momentarly and the Lower Display will flash
      4.2 Press the SET (+) or C/F (-) buttons to set the desired temperature and "Beep" will sound
      4.3 Wait ~3 seconds to store setting & Exit
   RELAY ENERGIZED LED Lights when SET POINT Is Reached in Either COOL or HEAT Mode

NOTE: Under Alarm Condition: Beeper will sound and Display will show "---"
      Alarm will Stop when Temperature drops below High Alarm setting
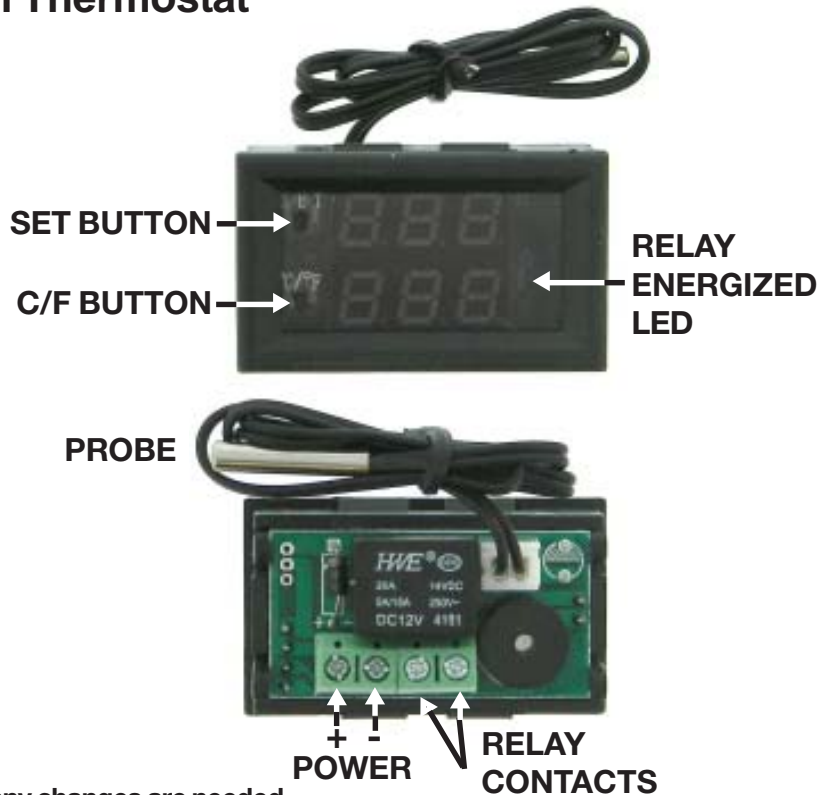   There is No Manual Silence for the Alarm
            You can remove Power
            Reset to Factory Defaults (Press & Hold SET & C/F)
                This will set the Alarm to "OFF"
                You will have to re-enter all Parameters for all Modes

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Parameter Chart:

Mode	Function	Range	Default	
P0	Cool/Heat	C or H	C	Sets Relay Function Energized for Cool or Energized for Heat
P1	Hysteresis	0.1-30deg.	2	Sets the the span between ON/OFF
P2	High Set Limit	-50 to 110deg	110deg	Set Max Allowed Temperature Setting
P3	Low Set Limit	-50 to 110deg	-50deg	Set Min Allowed Temperature Setting
P4	Correction	-15 to +15deg.	0	Set Offset due to special circumstances
P5	Start Delay	0-10sec.	0	Sets the Delay time after Set temp. is reached before relay is On
P6	High Alarm	ON/OFF	OFF	Turn ON/OFF & Set Heat Alarm Point (SEE NOTE Pg 1)
P7	Display	C or F	C	Set degree scale Centigrade/Farenheit
P8	Reset	ON/OFF	OFF	Resets ALL parameters to Factory Default

Setting Parameters:

If no changes are made during any setting mode, unit will automatically return to normal operation after ~3sec.
Beeper will sound when you make any selection

1: Press & Hold SET Button for >3 seconds to enter Menu
      Upper Display will Show Parameter starting with P0
      Lower Displays present setting
      1.1: Press the SET or C/F Button to sequence through the Setup P0-P8
            1.1.1: After selection, Short press of <u>Both</u> SET & C/F to show present setting on Lower Display
            1.1.2: Press SET or C/F to to adjust the settings
            1.1.3: Wait for ~3 seconds for automatic store & return to normal display
      1.2: Repeat 1.1 steps to set other Parameters P0-P5
      1.3: Setting P6 Alarm Set Point
            1.3.1 Follow Step 1.1 to select P6
                Lower Display shows "ON" or "OFF" (Depends on last setting)
            1.3.2 Press <u>Both</u> SET & C/F for >3 seconds
            1.3.3 Use SET to Turn ON Alarm function
               Use C/F to Turn OFF Alarm function
            1.3.4 Press <u>Both</u> SET & C/F for >3 seconds
               Lower Display will show Alarm temperature setting
            1.3.4 Use SET to Increase setting
               Use C/F to Decrease setting
            1.3.5 Wait for ~3 seconds for automatic store & return to normal display
      1.4: Setting P7 Redundant feature of selecting C or F temperature Scale
            1.4.1: Follow Step 1.1 to select P7
               Lower Display shows "CS" or "FH" (Depends on last setting)
            1.4.3: Short press of <u>Both</u> SET & C/F show present setting on Lower Display (CS or FH)
            1.4.4: Press SET for degrees "C"
               Press C/F for degrees "F"
            1.4.5: Wait for ~3 seconds for automatic store & return to normal display
      1.5: P8 System Reset to factory Default Settings
            1.5.1: Follow Step 1.1 to select P8
            1.5.2: Short press of <u>Both</u> SET & C/F show OFF setting on Lower Display
            1.5.3: Press SET for ON, THIS will imeadately reset all parameters Displays will not change from P8/ON
            1.5.4: Wait for ~3 seconds for automatic return to normal display
    NOTE: Reset can be accomplished in the Normal display mode by pressing <u>Both</u> SET & C/F
               Displays will Flash & Display 888 for ~10 seconds then return to Normal display