32184-MP
Digital Thermostat

Multi purpose, compact digital thermostat/controller with isolated relay output and 3 digit 0.28" Red LED display.
Features: programmable set points, Cool or Heat control, Hysteresis & Delay Time

**Power:** 12VDC

**Current:** ~35mA Relay open/~65mA Relay energized

**Temperature Range:** -50 to +110deg. C

**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 10A/14VDC; 5A/125VAC

**Status LED:** ON to indicate Relay Closed/OFF to indicate Relay Open

**Sensor:** Waterproof NTC resistive probe (12" leads)

**Ambient Range:** -10 to +60deg. C; 20-85% humidity

Terminal Strip for Power & Relay contacts.

**L:** 1-7/8in.  **W:** 1-9/16in.  **H:** 5/8in.  **WT:** .04

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Operation:
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)
4: Press SET button momentarily and the display will flash
   Press the + or - buttons to set the desired temperature
   Press SET to confirm setting & Exit

Setting Parameters:
1: Press & hold SET for >5seconds to enter Main Menu
   1.1: Press the + or - to sequence through the Setup P0-P6
       1.1.1: 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 set mode (P0,P1 etc.)
       1.1.4: P6 Mode: Only functions in P0=H Mode
           Enter P6 mode, Press Press + or - to toggle to “ON”,
           Press “SET” again to enter adjustment mode, Adjust Alarm Temp. with + or - buttons
           Hold SET for >5sec. or wait >10seconds to return to normal operation
   1.2: Repeat 1.1 steps to set other Parameters
   1.3: When finished Hold SET for >5sec. or wait >10seconds to return to normal operation

Parameter Chart:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Function</th>
<th>Range</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>P0</td>
<td>Heat/Cool</td>
<td>C/H</td>
<td>C</td>
</tr>
<tr>
<td>P1</td>
<td>Hysteresis</td>
<td>0.1-15deg</td>
<td>2</td>
</tr>
<tr>
<td>P2</td>
<td>Upper Temp.</td>
<td>110deg</td>
<td>110</td>
</tr>
<tr>
<td>P3</td>
<td>Lower Temp.</td>
<td>-50deg</td>
<td>-50</td>
</tr>
<tr>
<td>P4</td>
<td>Correction</td>
<td>-7 to +7</td>
<td>0</td>
</tr>
<tr>
<td>P5</td>
<td>ON Delay</td>
<td>0-10min.</td>
<td>0</td>
</tr>
<tr>
<td>P6</td>
<td>High Alarm</td>
<td>0-110</td>
<td>OFF</td>
</tr>
</tbody>
</table>

To return Factory Default Value Press & Hold + when powering up

Sets Relay Function On Cool or On Heat
Sets the span between ON/OFF
Limits the Max. temperature that can be entered in SET Mode
Limits the Min. temperature that can be entered in SET Mode
Set Offset due to special circumstances
Sets the Delay time after Set temp. is reached before relay is On
In P0=H; sets the max limit. Over temp. forces relay Off and
Displays “---”. Returns to Normal operation below set Temp.

LED Display Mode
Normal: Ambient Temp
Flashing: Setting
Shows “LLL” Sensor is Open or disconnected
Shows “HHH” Temperature is out of range
Shows “---” High Temperature Protect

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