

32184-MP

Centigrade 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 : 0.1 deg.
Control: 0.1deg.

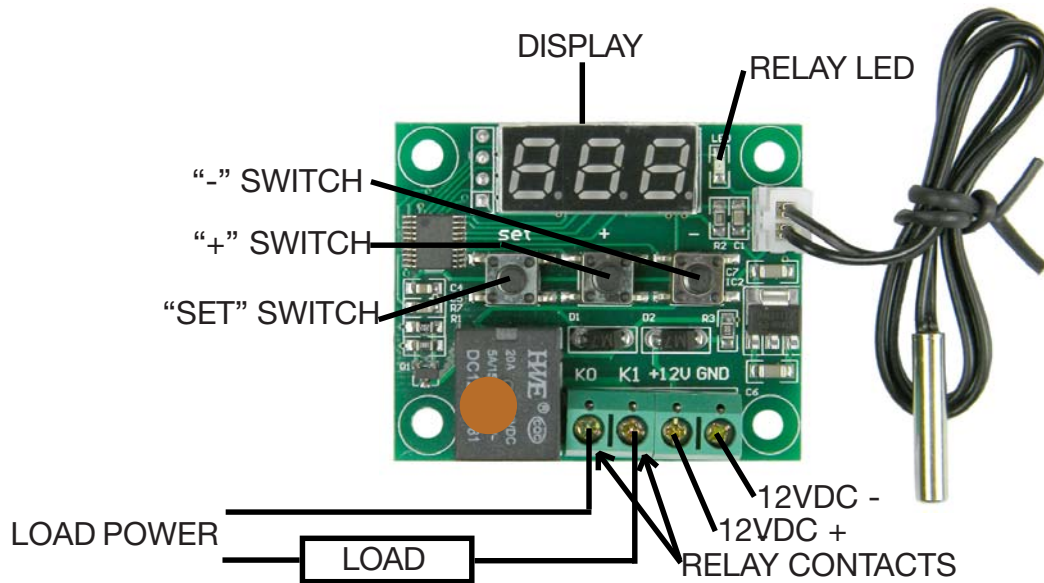
Relay: SPST-NO 20A/14VDC; 20A/125VAC

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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32184-MP

Digital Thermostat

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:

Mode	Function	Range	Default
P0	Heat/Cool	C/H	C
P1	Hystresis	0.1-15deg	2
P2	Upper Temp.	110deg	110
P3	Lower Temp.	-50deg	-50
P4	Correction	-7 to +7	0
P5	ON Delay	0-10min.	0
P6	HighAlarm	0-110	OFF
To return Factory Default Value Press & Hold +- when powering up			

Sets Relay Function On Cool or On Heat
Sets the 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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