

32709-MP

Digital Thermostat

Compact, microprocessor based, dual threshold digital PID thermostat with isolated relay output for cooling and heating applications. Three, 2 digit LED displays for Ambient, Start & Stop temperatures.

Features: Programmable set Points:

“Start” point closes Relay, “Stop” point releases Relay.

Temperature Range: -9 to +99 deg. C

Power: 9-14VDC (12VDC nominal) <1W

Refresh rate: 0.5sec.

Accuracy: Measurement: 1 deg.

Control: 1.0deg.

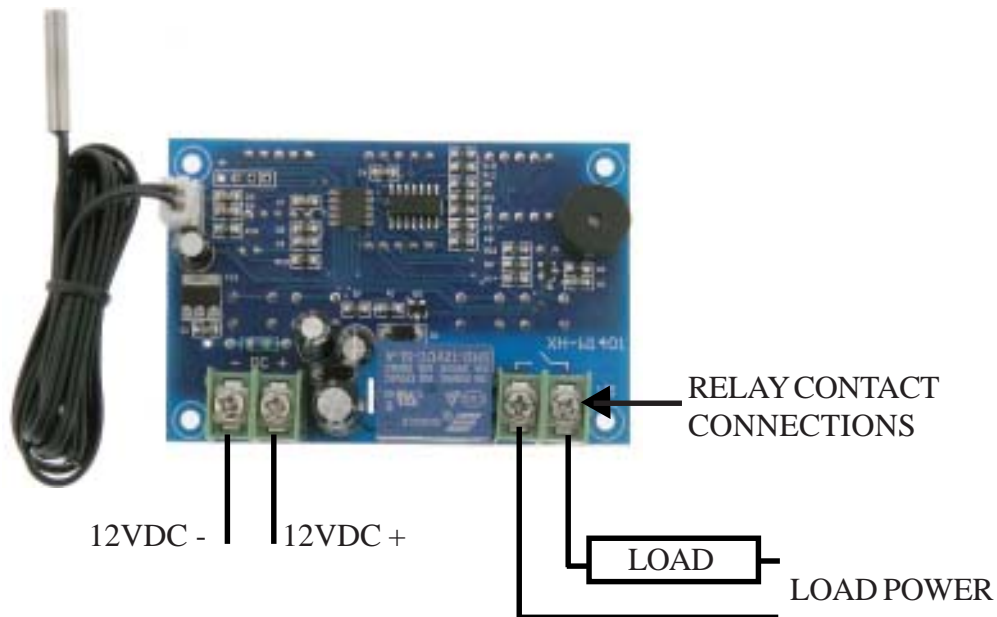
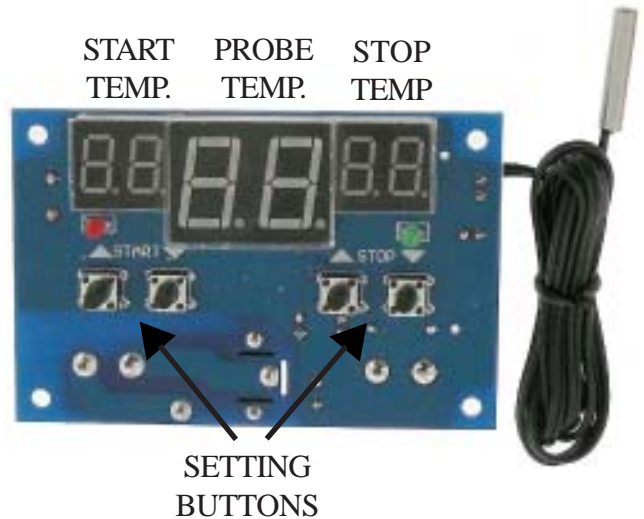
Relay: SPST-NO 10A/250/125VAC/30VDC

Sensor: 10K ohm NTC probe (1m leads)

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

Terminal Strips for Power & Relay contacts.

W: 3-1/6" **H:** 2-1/16" **D:** 1-1/16" **WT:** .12



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32709-MP

Digital Thermostat

This programmable thermostat is a microprocessor controlled Proportional-integral-derivative (PID) type controller designed to maintain a required temperature. Can be used for Heating or Cooling
The thermostat has 3, dual digit LED displays to show the Start, Stop, and the current Ambient (Probe Location) temperature.
and 2 indicator LEDs

Red "START" LED: relay contacts are energized (Closed)

Green "STOP" LED: relay contacts are de-energized (Open)

Operation

Thermostat requires setting the temperature limits using the "▲" (UP) and "▼"(DOWN) buttons

Basic Principle of operation:

If the Probe temperature is less than the Stop setting, the Relay is Energized

If the Probe temperature is greater than the Stop setting, the Relay is De-energized

Procedure:

1: Place Controller and Probe in desired locations

2: Connect Load to Controller Relay Contacts (Be sure Load power is off)

The Relay contacts are in series with the Load!

NOTE: For higher loads you should use an external Contactor activated by the Relay contacts in this Thermostat

3: Connect 12VDC Power Supply to Thermostat

Center Display will show the Probe temperature

4: Using the appropriate Buttons: Set the Start and Stop limits in accordance with the temperature requirements (Mode)

A beep will be heard at the press of a button.

Modes:

A: Cooling: Set the Start Limit > (greater than) the Stop Limit

When the Probe temperature is \geq the Start, the Relay will energize to supply power to cooling equipment until the temperature drops to the Stop limit and the Relay will de-energize

B: Heating: Set the Start Limit < (Less than) the Stop Limit

When the Probe temperature is \leq the Start, the Relay will energize to supply power to heating equipment until the temperature increases to the Stop limit and the Relay will de-energize

NOTE: If both Start & Stop are set to the same value; the Thermostat will not operate

The Relay will remain de-energized (open)

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