

34755-TM

12VDC Dual Thermostat "C"

Compact, microprocessor based, dual independent thermostats with in one housing with isolated relay outputs.

Two, 3 digit LED displays. Ideal for temperature regulation in 2 places.

Built-in settings memory. Relay and Alarm status LEDs

Programmable low or upper temperature limit alarm. The alarm is signaled by a sound (buzzer) with flashing display and LED.

Power: 12VDC

Temperature Range: -50 to +110 °C

Measurement Accuracy: +-0.5°C

Control Accuracy: 1°C

Refresh Rate: ~0.5sec

Sensor(s): 2x NTC10K ohm (B3435) 20 x 4mm Dia. Stainless Probe,

Cable: 1m

Relay: 2x SPST-NO

Contact: 15A/125/14VDC

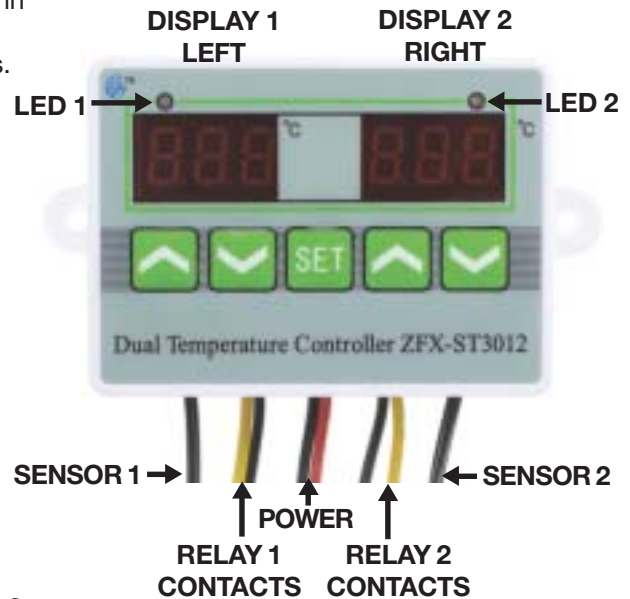
Operating Temp. Range: 0 to 50° C

Humidity: 20-85%

Wire leads for Power & Relay contacts.

Mounting Holes 88mm C/C

L: 3-15/16" O/A (100mm) **W:** 2-3/16" (55mm) **H:** 1-1/4" (32mm) **WT:**.2



Normal Operation the Display Shows Actual Temperature of Probe Location

Note: LED Indicator(s)

RED Solid: Set Mode (Display Flash)

RED Flash: Delay Timer (P7) Operating

GREEN Solid: Relay Activated

Display Error Codes:

"LLL" Sensor Disconnected/Open

"EEE" Temperature Below measurement Range

"HHH" Temperature Higher than measurement range

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Instructions

Setup Mode Codes

Code	Name	Settings	Default
HC	Heating / cooling	C / H	C
d	Hysteresis	1-30°C	5° C
LS	Low Temp alarm	-50°C	-50° C
HS	High Temp Alarm	110°C	110° C
CA	Calibration	-10 ~ 10°C	0° C
P7	Min. on-off Delay	0-10min	1 min

1: Setting Mode: Heat/Cool (HC):

Heating (H): Relay closes at temperature BELOW set temperature

Cooling (C): Relay closes at temperature ABOVE set temperature

NOTE: Factory Default is Cooling If you only need Cooling Mode--skip to "Adjusting Setpoint "

1A: Thermostat #1 (LEFT Side)

Press SET Button **1** time to select the Left thermostat.

Press & Hold the "SET" Button

"HC" will Display

Press the "SET" Button

"C" or "H" will Display

Use the ▲ and ▼ to select heating or cooling mode.

After selection Wait 5sec. and selection will be stored.

1B: Thermostat #2 (RIGHT Side)

Press SET Button **2** times to select the Left thermostat.

Follow the same procedure as with Thermostat #1

2: Adjusting Setpoint Temperature

2A: Thermostat #1 (LEFT Side)

Press SET Button 1 time to select the Left thermostat. Left LED will Light Red. Display will Flash

Use the ▲ and ▼ to set temperature (**holding the button speeds up the change**).

After selection Wait 5sec. and selection will be stored.

2B: Thermostat #2 (RIGHT Side)

Press SET Button **2** times to select the Right thermostat. Right LED will Light Red. Display will Flash

Follow the same procedure as with Thermostat #1

3: Adjusting Hysteresis (d):

3A: Thermostat #1 (LEFT Side)

Press SET Button **1** time to select the Left thermostat.

Press & Hold the "SET" Button

"HC" will Display

Use the ▲ and ▼ to Scroll through through modes until Display shows "d".

Press the "SET" Button

Preset value will Display

Use the ▲ and ▼ to set the degrees of Hysteresis

After selection Wait 5sec. and selection will be stored.

3B: Thermostat #2 (RIGHT Side)

Press SET Button **2** times to select the Right thermostat.

Follow the same procedure as with Thermostat #1

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4: Adjusting Low Temperature Alarm (LS):

Note: When Alarm Triggered: Display Shows (-L-)

Pressing any Button will Silence the Buzzer And Turn OFF the Relay

4A: Thermostat #1 (LEFT Side)

Press SET Button **1** time to select the Left thermostat.

Press & Hold the "**SET**" Button

"**HC**" will Display

Use the ▲ and ▼ to Scroll through through modes until Display shows "**LS**".

Press the "**SET**" Button

Preset value will Display

Use the ▲ and ▼ to set the Low Temperature Trip Point. Set "**LS**" as "**-50**" to Disable

After selection Wait 5sec. and selection will be stored.

4B: Thermostat #2 (RIGHT Side)

Press SET Button **2** times to select the Right thermostat.

Follow the same procedure as with Thermostat #1

5: Adjusting High Temperature Alarm (HS):

Note: When Alarm Triggered: Display Shows (-L-)

Pressing any Button will Silence the Buzzer And Turn OFF the Relay

5A: Thermostat #1 (LEFT Side)

Press SET Button **1** time to select the Left thermostat.

Press & Hold the "**SET**" Button

"**HC**" will Display

Use the ▲ and ▼ to Scroll through through modes until Display shows "**HS**".

Press the "**SET**" Button

Preset value will Display

Use the ▲ and ▼ to set the High Temperature Trip Point. Set "**HS**" as "**110**" to Disable

After selection Wait 5sec. and selection will be stored.

5B: Thermostat #2 (RIGHT Side)

Press SET Button **2** times to select the Right thermostat.

Follow the same procedure as with Thermostat #1

6: Adjusting Calibration (CA): (Error between measured temperature and standard temperature)

6A: Thermostat #1 (LEFT Side)

Press SET Button **1** time to select the Left thermostat.

Press & Hold the "**SET**" Button

"**HC**" will Display

Use the ▲ and ▼ to Scroll through through modes until Display shows "**CA**".

Press the "**SET**" Button

Preset value will Display

Use the ▲ and ▼ to set the degrees of + or- Offset.

After selection Wait 5sec. and selection will be stored.

6B: Thermostat #2 (RIGHT Side)

Press SET Button **2** times to select the Right thermostat.

Follow the same procedure as with Thermostat #1

7: Adjusting Restart: Power Fail Delay Time to Restart

Note: A flashing Red LED indicates the P7 delay is counting down.

7A: Thermostat #1 (LEFT Side)

Press SET Button **1** time to select the Left thermostat.

Press & Hold the "**SET**" Button

"**HC**" will Display

Use the ▲ and ▼ to Scroll through through modes until Display shows "**P7**".

Press the "**SET**" Button

Preset value will Display

Use the ▲ and ▼ to set the Time Delay.

After selection Wait 5sec. and selection will be stored.

7B: Thermostat #2 (RIGHT Side)

Press SET Button **2** times to select the Right thermostat.

Follow the same procedure as with Thermostat #1