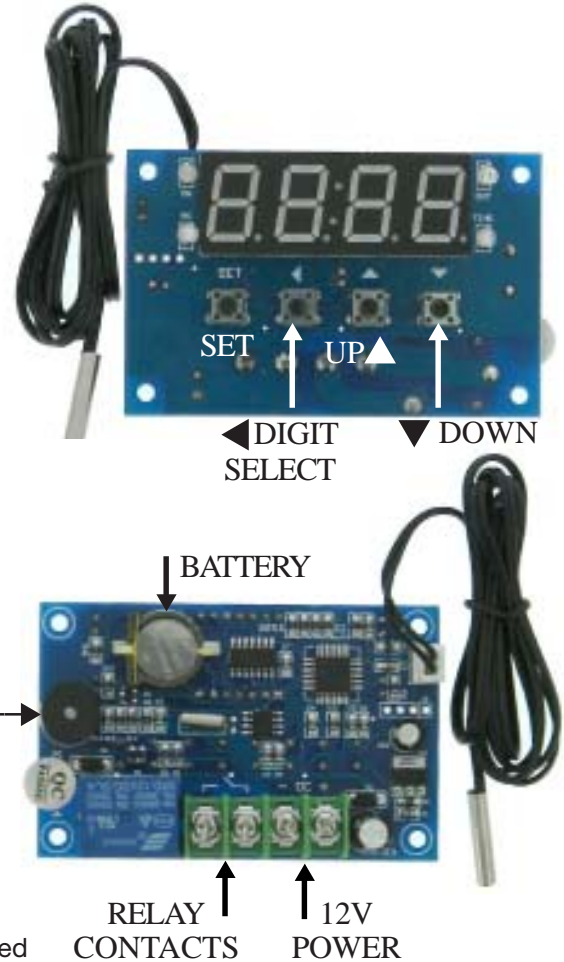


34686-MP

Time Controlled Thermostat

24hr mode Digital control Heat or Cool thermostat.
 Dual mode: Time Off: regular thermostat operation
 Time On: Provide Heat or Cooling during a programmed time period.
 For example, from 8:30 -15:00 (8:30AM to 3:00PM) the temperature is controlled at 60 "C" degrees. The rest of the time the temperature is not controlled.
 Power: 12VDC
 Clock: 24 hr mode Battery backup (CR1220)
 Control Range: -50 to ~110deg. "C"
 Accuracy: 0.1 deg
 Probe: NTC 10K ohm Thermistor, Waterproof, 1m long
 Relay: SPST-NO
 Contacts: 10A @ 125/250VAC/ 28VDC
 Module Ambient Range: -10 to +60 "C"
L: 3-1/16" W: 2" H: 1" WT: .1



LED & Display Functions:

- MH** Yellow LED indicating Thermostat is in HEAT Mode
- MC** Blue LED Indicating Thermostat is in COOLING Mode
- OUT** Red LED Indicating that the Relay is activated
- TIME** Green LED Indicating Thermostat is Timer Control Mode
- LLLL** Display: No Probe or Probe Error
- HHHH** Display: Range Exceeded or Probe error
- Display Flash with Buzzer** Temperature High/Low Alarm Point exceeded

Parameter Function Chart:

Mode	Function	Range	Default
P0	Control	ON/OFF	Off
P1	Start Temp	-50 to 110 "C"	26
P2	Stop Temp	-50 to 110 "C"	28
P3	Start Time	00:00-23:59	08:00
P4	Stop Time	00:00-23:59	18:00
P5	Display Dwell	0-10Sec	2
P6	Display Dwell	0-10Sec	5
P7	Hi Temp Alarm	-50 to 110 "C"	110
P8	LoTemp Alarm	-50 to 110 "C"	-50
P9	Temp. Correction	-7.0 to +7.0 "C"	0
P10	Time Set	Local Time	Random
P11	Time Correction	-25 to +25sec	0

ON : Time & Temp. Control Relay / OFF Temp. Controls Relay
 Sets the Relay turn ON Temperature
 Set the Relay turn OFF Temperature
 Set the Relay turn ON Time
 Set the Relay turn OFF Time
 Sets dwell time of Display showing Temperature
 Sets dwell time of Display showing Time
 Set the Over Temp Alarm (Screen Flash Buzzer Sounds)
 Set the Low Temp. Alarm (Screen Flash Buzzer Sounds)
 Adjust (Calibrate) for Temperature errors
 Set the Clock
 Compensation for Clock Errors



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Time Controlled Thermostat

Setting Parameters

NOTE: Parameters should be set Before Connecting to a Load

If no changes are made during any setting mode, unit will automatically return to normal operation after ~10sec.

Beeper will sound when you make any selection

1: Press **SET** Button

Press UP (▲)/DOWN (▼) Buttons to cycle through P0-P11

2: To Set Local Time (24hr Format)

Press **SET** Button (Display will Show P0)

Press UP (▲)/DOWN (▼) Buttons to cycle through until Display shows P10

Press the Digit Select (◀) Button to the digit you wish to change (Digit will Flash)

Press UP (▲)/DOWN (▼) Buttons to set value

Repeat for each digit you want to adjust

When setting is complete: Wait 10 seconds and display will return to normal operation

3: To Set P0 Turn Thermostat Time control ON/OFF (ON to have the operation during a specific Time Window)
(OFF to have the operation controlled by Temperature only)

Press **SET** Button

Display will Show P0

Press **SET** Again

Display will Show Present Status (On/Off)

Press UP (▲)/DOWN (▼) Buttons to cycle through ON/OFF Status

When setting is complete: Wait 10 seconds and display will return to normal operation

4: To Set P1/P2 Temperature Start/Stop Settings

Heating mode P1 < P2 MH LED lights **Cooling mode** P1 > P2 MC LED lights

Press **SET** Button (Display will Show P0)

Press UP (▲)/DOWN (▼) Buttons to cycle through until Display shows P1

Press SET Least Significant Digit (.0 deg) will Flash

Press UP (▲)/DOWN (▼) Buttons to set value

Press the Digit Select (◀) Button to the next digit you wish to change (Digit will Flash)

Repeat for each digit you want to adjust

When setting is complete: Wait 10 seconds and display will return to normal operation

Press UP (▲)/DOWN (▼) Buttons to cycle through until Display shows P2

Repeat as above

5: To Set P3/P4 Time Start/Stop Settings (Timed Operation)

NOTE: P0 must be Set to ON for this to effect operation

Press **SET** Button and UP (▲)/DOWN (▼) Buttons as in #4 Above until Display shows P3

Press UP (▲)/DOWN (▼) and Press the Digit Select (◀) Buttons to set values

When setting is complete: Wait 10 seconds and display will return to normal operation

To set P4 Repeat as Above except select "P4"

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Setting Parameters (Continued)

6: To Set P5/P6, set the alternating Time/Temperature displayed dwell time 0-10 Seconds

NOTE: Setting either (Not Both) to "0" will turn off the display for that reading

Press **SET** Button and UP (▲)/DOWN (▼) Buttons as in #4 Above until Display shows P5

Press SET Least Significant Digit (1sec) will Flash

Press UP (▲)/DOWN (▼) Buttons to set value

When setting is complete: Wait 10 seconds and display will return to normal operation

To set P6 Repeat as Above except select "P6"

7: To Set P7/P8 High and Low Temperature Alarms

Press **SET** Button and UP (▲)/DOWN (▼) Buttons as in #4 Above until Display shows P7

Press SET Least Significant Digit (.1deg) will Flash

Press UP (▲)/DOWN (▼) Buttons to set value

Press the Digit Select (◀) Button to select digits

When setting is complete: Wait 10 seconds and display will return to normal operation

To set P8 Repeat as Above except select "P8"

8: To Set P9 Temperature Compensation (Calibration) +-10deg.

When the measured temperature and the actual temperature differ

Press **SET** Button and UP (▲)/DOWN (▼) Buttons until Display shows P9

Press SET Least Significant Digit (1deg) will Flash

Press UP (▲)/DOWN (▼) Buttons to set value

When setting is complete: Wait 10 seconds and display will return to normal operation

9: To Set P11 Time Compensation (Calibration) +-10seconds

Corrects for slight errors with the onboard clock

Press **SET** Button and UP (▲)/DOWN (▼) Buttons until Display shows P11

Press SET Least Significant Digit (1 sec) will Flash

Press UP (▲)/DOWN (▼) Buttons to set value

When setting is complete: Wait 10 seconds and display will return to normal operation

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