



NOTICE D'UTILISATION

INSTRUCTIONS FOR USE

THERMOSTAT DIGITAL

G04-00120

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Timer & Temperature controller G04-00120



Main features:

1. Big LCD display, friendly interface, easy to read, operates, and set the parameters.
2. Using real-time clock to control the light, simulating the day and night as real environment.
3. Small and elegant appearance, can adopt attached on the glass, or stand on the table, or install into the aquarium and terrarium, fit for different operating requirements of users.

Main Functions and Parameters:

- ◆ Controlling range: 0.0~50.0°C
- ◆ Resolution : 0,1°C
- ◆ Temperature difference: 0,1°C
- ◆ Time unit: hour [24:00 format]
- ◆ Input voltage: 220V±15% (VAC), 50HZ~60HZ
- ◆ Product consumption: ≤3W
- ◆ Measuring range 0,0 ~ 50,0°C
- ◆ Accuracy : ±1,0°C
- ◆ Over heat alarm: 0,0-5,0°C
- ◆ Relay Capacity : 10A/220V
- ◆ Control load: ≤1200W/220VAC

Symbôle :

- ◆ ☼ Icon flashing: Cooling output
- ◆ ☀ Icon flashing: Heating output
- ◆ 🌞 Icon flashing: The light is on
- ◆ 🚨 Icon rapid flashing: Alarm status over temperature
- ◆ ☀ Icon flashing: Daytime
- ◆ 🌙 Icon flashing: Nighttime

Menu instructions :



Menu item	Set	Default value	Remark
HEAT/COOL (MODE)	COOL / HEAT	HEAT	COOL mode delay 1 min.
Daytime Temperature (SET)	0.0~50.0°C	28°C	Set step 0.1°C
Nighttime Temperature (SET)	0.0~50.0°C	23°C	
Daytime FROM ☀	00:00~22:59	08:00	
Nighttime FROM 🌙	01:00~23:59	18:00	TO is earlier than FROM, display ERR
Temperature difference (DL)	0.0~10.0°C	3.0°C	Set step 0.1°C
Alarm status over temperature 🚨 Icon rapid flashing	0.0~5.0°C	5.0°C	Set step 0.1°C
First Timing control L1:ON: FROM, OFF: TO	00:00~23:59	00:00~06:00	Disabled if FROM and TO are same
Second Timing control L2:ON: FROM, OFF: TO	00:00~23:59	12:00~18:00	Disabled if FROM and TO are same
Real Timer	00:00~23:59	Real-time	

Parameters setting:

Parameters would be set according to the following circular mode in the first time; all the parameters are set and saved instantly. First of all, make sure the power is on.



1. Choose HEAT/COOL mode:
RT: real-time temperature.
 Press SET key for 3sec to enter HEAT/COOL mode menu and **M** flashing:
HEAT: Heating output, **COOL**: Refrigeration;
 Press **Λ** or **V** key to choose mode, and corresponding mode icon will light.
2. Daytime temperature setting:
 Press SET key to display the default temperature value while icon **SET** and ☀ flashing, then press **Λ** or **V** key to select the ideal temperature you want.
3. Nighttime temperature setting:
 Press SET key to display the default temperature value while icon **SET** and 🌙 flashing, then press **Λ** or **V** key to select the ideal temperature you want.
4. Temperature difference setting:
 Press SET key until **DL** icon flashing and display current value, press **Λ** or **V** key to select the idea temperature difference you want.
5. Over temperature limit setting:
 Press SET key icon 🚨 flashing and display the current over temperature value, press **Λ** or **V** key to select the idea over temperature you want.
6. Timing setting:
 - 6.1 First timing control L1:
 A. Start time setting: Press SET key until display **L1** and **FROM** icon flashing, at the same time display the default time, press **Λ** or **V** key to set the hour;
 After hour set, press SET key to set the minute, press **Λ** or **V** key to set the value;
 B. End time setting: When start time is already finished, press SET key and then **TO** icon flashing, you can set end time in the same method.
 - 6.2 Second timing control L2
 The same operation with first timing control L1.
7. Real-time setting:
 Press SET key, 🕒 icon flashing and display current hour set value, press **Λ** or **V** key to adjust the system time;
 Press SET key and then set minute value in the same method.

8. Daytime start time setting:

Press SET key,  and  icon flashing, at the same time FROM flashing and display default hour value, press **▲** or **▼** key to modify the value.

After hour set, press SET key to set the minute, press **▲** or **▼** key to set the value;

9. Nighttime start time setting:

Press SET key,  and  icon flashing, at the same time TO flashing and display default hour value, press **▲** or **▼** key to modify the value.

After hour set, press SET key to set the minute, press **▲** or **▼** key to set the value;

Remark:

1. If current menu don't need adjustment, press SET key directly to switch to next menu, press SET key to exit and save settings.
2. Parameters of temperature and timer can be recycled view by pressing **▲** or **▼** key at same time in normal status.
3. The product returns to normal working condition automatically without any key operate in 15 seconds.
4. Parameter adjustment: Press **▲** or **▼** key for more than 3 seconds, enter into quickly adjusting state.

Upper and lower temperature limits setting:

In normal working status:

A. Upper temperature limit setting: Press **▲** key for 5 seconds to display current upper temperature limit settings, and then press **▲** or **▼** key to modify the set value.

B. Lower temperature limit setting: Press **▼** key for 5 seconds to display original lower temperature limit settings, and then press **▲** or **▼** key to modify the set value.

Controlling function:

Refrigeration:

A. Refrigeration systems works in below situation:

the measuring temperature \geq the set temperature + the temperature difference.

B. Refrigeration systems stop working in below situation:

the measuring temperature \leq the set temperature. (Refrigeration system works delay 1 minute)

Heating output:

A. Heating systems works in below situation:

the measuring temperature \leq the set temperature + the temperature difference;

Others: heating systems stops working.

Over temperature alarming:

Buzzer sounds in alarming status and alarm icon flashing in below situation:

- A. the measuring temperature $>$ the set temperature + over temperature alarming value
- B. the measuring temperature $<$ the set temperature - over temperature alarming value.


Timing setting:

FROM : timing of turning on light.

TO : timing of turning off light.

If the system time is during FROM time and TO time. the light will light when timing setting has adjusted and saved. For example, original timing starting time is 8:30, original timing ending time is 18:30, new timing starting time is 6:00, new timing ending time is 18:00, the system time is 7:00, you will see the light is on. If not, the light is off.

Others:

◆Over temperature alarm:  icon rapid flashing with "drops" alarm sounds and display the measuring temperature in below situation:

- A. the measuring temperature \geq the set temperature + super temperature alarming value
- B. the measuring temperature \leq the set temperature - super temperature alarming value

◆Over temperature limit alarming:

the measuring temperature $< 0.0^{\circ}\text{C}$, display LLL: super floor temperature;
the measuring temperature $> 50.0^{\circ}\text{C}$, display HHH: super limit temperature;
with "drops" alarm sounds at the same time.

◆Probe fault alarm: when probe have open circuit or short circuit faulty, display error message of probe faulty "ERR"

◆Mute alarming manually:

A. Super temperature or super limit temperature: press any key to mute alarm, but probe fault alarm sound can not eliminate.

B. Press **▲**, **▼** at the same time for 3 sec or more, the menu is available to choose whether to eliminate alarm sound, **AL**: have alarm sounds, **NO**: have no alarm sounds.

C. You can choose one and press SET to save and exit.

◆Socket output control load:

I: heating output.

II: timer output, lights or oxygen pump;