

# INSTRUCTIONS

## Timer and temperature controller (ATC--300)for aquaria

### [General description]

ATC--300 is one of a newly, successfully developed timer and temperature controller series products applied to aquaria market. Its practical functions, delicate appearance will please both your eyes and mind perfectly.

### [Main functions and parameters]

- ◆ Control range: 16~36°C
- ◆ Measuring range: 0~50°C
- ◆ Distinguish : 0.1°C
- ◆ Accuracy:  $\pm 1^{\circ}\text{C}$
- ◆ Temperature difference : 1°C
- ◆ Over heat alarm:  $\pm 2^{\circ}\text{C}$
- ◆ Time unit: hour
- ◆ The heater is protected by sensor's power off when water
- ◆ Input voltage: 220V  $\pm 10\%$ , 50HZ~60HZ
- ◆ Product consumption:  $\leq 1.5\text{W}$
- ◆ Control load:  $\leq 1200\text{W}/220\text{VAC}$

### [Operation ]

#### ◆ Temperature setting

Press key "TEMP" for 3s to blink the current temperature . Press key "▲" to increase 1, press key "▼" to decrease 1. Setting range: 16~36°C. Press key "TEMP" again for 3s to save and exit when finishing setting. Return to display the current temperature automatically and do not save the changing value if no operation for 15 seconds.

#### ◆ Time setting of timer

Press key "TIME" for 3s to blink the current setting opening time, at the same time it will display "□" on bottom of the first number pipe. Press key "▲" or "▼" to change the original setting value, setting range : 0~24H  
press key "TIME" again to blink the current setting stopping time and it will display "□" underside the first number pipe simultaneously. Press key "▲" or "▼" to change the original setting value, setting range: 0~24H. Press key "TIME" for 3s to exist and save the setting value simultaneously. Return to display the current temperature automatically and do not save the changing value if no operation for 15s.

#### ◆ Check the setting temperature

Press key "TEMP" to display the current temperature value and it will exist automatically after 2 s

#### ◆ Check the setting time

Press key "▲" to display the current opening time ,press key "▼" to display the stopping time and then exist automatically.

#### ◆ Power on/off timer forcibly

In normal measuring and control mode , press key "TIME", power the timer, press key "TIME" again to power off, Cycle like this.

#### Alarm sound:

1. press any key to cancel the out of limit alarm, sensor's failure alarm can not be cancelled
2. press key "▲" and "▼" together for 3 s to open or close out of limit alarm. Alarm on will remind you by "B\_o"; alarm sound closure will remind you by "B\_C". Display delays for 2S and then exits.

### [Other description]

- ◆ Alarm when out of setting measuring temperature : actual  $\leq$  setting value -2°C or  $\geq$  setting value +2°C, and then temperature value will blink and make an alarm sound "DIDI"
- ◆ Alarm when out of measuring range : the actual temperature  $\leq 0^{\circ}\text{C}$ , display "LLL";  $\geq 50^{\circ}\text{C}$ , display "HHH"; make an alarm sound "DIDI"
- ◆ Alarm for sensor's failure ,display "EEE", cut off the heater, make an alarm sound "DIDI"
- ◆ Power off when water
- ◆ Socket output controls load I is heating stick, II is timer output connected with light or oxygen pump.