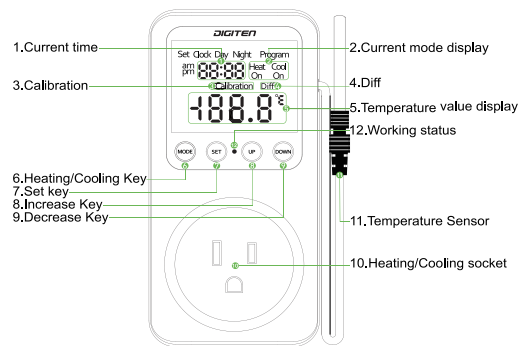# DIGITEN
*Making Life Better*

## Day/Night Temperature Controller User Manual

### Model:TTC-1501

The thermostat displays the measured temperature and the current time. It can set the time period and the target temperature to control the heating or cooling equipment. This scientifically designed and easy-to-operate thermostat is suitable for reptile markets, fish tanks, greenhouses, incubators, and refrigerators, where constant temperature control is required.

## Specifications

- Power supply: 100-240VAC 50/60HZ
- Timing function: Setting the time period (Day/Night)
- Temperature control range: - 40~80℃ /- 40~176 ℉
- Time format: 24hr/12hr
- Control accuracy: ± 1℃ / ℉
- Display accuracy: ± 0.1℃ / ℉
- Maximum load: 15A
- Working mode: Heating/Cooling
- SENSOR: NTC 3950 R25=10K 2m
- Calibration range: -10~10℃ / ℉ (increase ± 0.1℃ / ℉ )
- Diff: 1℃ ~10℃ / ℉ (increase ± 1℃ / ℉ )

1.Current time
3.Calibration
6.Heating/Cooling Key
7.Set key
8.Increase Key
9.Decrease Key
2.Current mode display
4.Diff
5.Temperature value display
12.Working status
11.Temperature Sensor
10.Heating/Cooling socket

## Clock Setting

1. Long press and hold the **SET** button to enter setting mode.
2. Press the **UP** and **DOWN** to switch 24Hr or 12Hr.
3. Then short press the **SET** button to set the current time.
4. Press the **UP** and **DOWN** to adjust the number.
5. Long press the **SET** button to save and exit.

## ℃ / ℉ conversion

Press **UP** and **DOWN** button simultaneously to switch ℃ / ℉ .

## Mode Switch

Short press the **MODE** button to switch heating or cooling mode.

## Programming

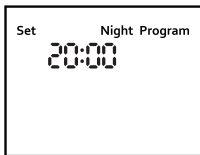Short press the **SET** button to start program the day/night and the target temperature.

1. When **Day** time flash and you can short press the **UP** or **DOWN** buttons to set **Day** time.
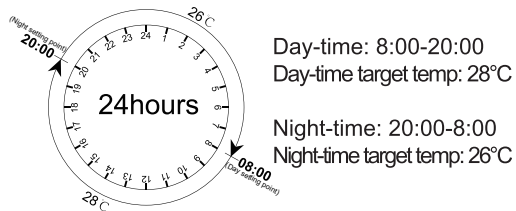- Each interval is 15 minutes

2. After you have set the **Day** time. Then short press the **SET** button to set the day-time `s temperature.
- The day temperature flash and then press the **UP** or **DOWN** buttons to set it.
  Each interval is 1° C/ ℉

3. Then short press the **SET** button to set the **Night** time.
- When **Night** time flash and you can short press the **UP** or **DOWN** buttons to set **Night** time.

Set　　　　Night Program
**20:00**

4. Short press the **SET** button to set the night temperature.
- The temperature flash and then press the **UP** or **DOWN** buttons to set it.
- Press the **SET** button to save your settings and back to the current temperature and clock display.Then the unit will be set well.

Set　　　　Night Program
**26.0℃**



Day-time: 8:00-20:00
Day-time target temp: 28℃

Night-time: 20:00-8:00
Night-time target temp: 26℃

## Temperature difference

Press the **SET** and **MODE** buttons simultaneously until the LCD display **Diff**. The default DIFF is 2℃ /2 ℉.
You can adjust the DIFF (Temperature Difference) value while the icon DIFF flashes, then press the **UP** or **DOWN** key to adjust the ideal temperature difference you want.

## Backlight Function

Press any key to wake up the LCD backlight.
The backlight will automatically turn off after the 30s.

## Restore factory settings

Long press and hold the **SET** button when connecting to the load to restore the factory setting.

## Defaults

| Clock | 00:00 |
|---|---|
| Unit | ℃ |
| Day time | 08:00 |
| Day temperature | 28℃ |
| Night time | 20:00 |
| Night temperature | 26℃ |
| DIFF | 2.0℃ |
| Time format | 24hr |
| Calibration | 0.0℃ |

## Memory function

All the data will be saved after power off.
This thermostat has memory function, you don`t need to worry about power failure.
NOTE: When the built-in battery is dead, the clock will not be saved.

## How to work

| Function | Output ON | Output OFF |
|---|---|---|
| Heating | Measured Temp < Target Temp - DIFF | Measured Temp > Target Temp |
| Cooling | Measured Temp > Target Temp + DIFF | Measured Temp < Target Temp |

## Calibration

When there is a deviation between the current temperature and the actual temperature, use the temperature calibration function to correct the current temperature.
Corrected Temperature = Temperature (before Calibration) +calibration value (calibration value could be positive value, 0 or negative value)
Long press the **SET** and **UP** buttons simultaneously about 3s until the LCD display **Calibration**, press **UP** and **DOWN** to adjust it. Press **SET** to save and exit.

## Low battery

When the low battery symbol appears, you need to unscrew the screw, open the case, and replace the battery inside.
1. Unscrew the case screws.
2. Please disassemble and handle carefully.
3. Replace the battery and close the case.

## Limited warranty

This thermostat carries a 12-month limited warranty from the date of purchase. If there is any quality-related issue, please contact technical support at service@digit-en.com.

service@digit-en.com
www.digit-en.com/support