

TC421 WiFi Time LED Controller

Product Specification



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1.Product description

There is an upper computer in the programmable time controller to make the load output change over time, the customer may customize schedule mode they want through the upper PC or APP client. Then through the USB port or Wi-Fi to download required schedule to the controller. The upper PC and Mobile phone APP to the client in addition to the function of editing schedule mode, it also can be setup time for the controller because of synchronous clock function of upper host. If user want to see the schedule mode effect after editing, they can use fast sowing function of upper. Because there is no delete function of the upper host, so the mode name display space will come into blank as long as you execute delete. This controller can control load of led changing effect no more than five channels. And it can be used in the occasion of the plant lights, light box advertising, the stage, home decoration, etc.

2. technical parameters

- 2.1 Working temperature: -20-60°C
- 2.2 Supply voltage: DC12-24V
- 2.3 static power: < 0.5W
- 2.4 net weight: 220g
- 2.5 gross Weight: 360g
- 2.6 External dimension: 150MM*78.5MM*26MM
- 2.7 Packing dimension: 185MM*180MM*54.8MM
- 2.8 Output: 5 channels
- 2.9 Max load current: 20A

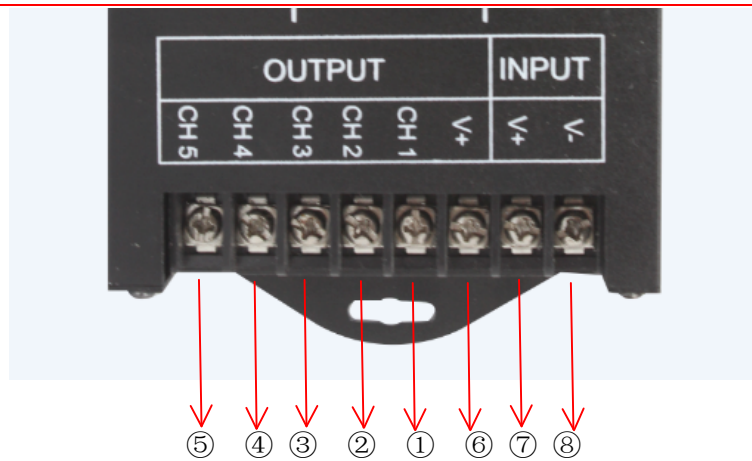
3. Interface instruction

3.1 Input interface



- ① It is the reset button, when the controller crash, can touch this key to reset.
- ② It is USB signal joint entrance, when epistatic machine model after editing, can through the USB line to download to the controller.
- ③ It is DC plug, when the load power is small, can choose this port to input voltage.

3.2 Output interface



- ①CH1: It is the load output first channel negative pole;
- ②CH2: It is the load output second channel negative pole;
- ③CH3: It is the load output third channel negative pole;
- ④ CH4: It is the load output 4th channel negative pole;
- ⑤ CH5: It is the load output 5th channel negative pole;
- ⑥V+: It is the load output positive pole;
- ⑦⑧V-. V-: It is power supply input positive and negative pole, when the load power is too large, you can choose this 2 port. (Remark: you only need to choose one between power supply input DC port and this 2 port)

4. Function instructions

There are two kinds of modes like energy saving mode and setup mode in this controller, and also there are four buttons such as "Menu", "Enter", "+", "-" in it.

4.1 Wi-Fi Settings

Wi-Fi has two modes:

AP mode: Mobile phone connected to the controller to control, the Wi-Fi name for time controller is (SmartTime xxxx); Long press the Menu key can change Wi-Fi mode to AP mode, The Settings screen shows "Set: softAP..." , After the completion of the set will enter the normal mode.

STA mode: Mobile phone is connected to the router, and then through a router to control the time controller, through the phone APP Settings and add network; When switched on, controller will initialize the Wi-Fi, display shows "Init: Wi-Fi..." Initialization is completed, will enter the normal mode, Wi-Fi model for last time setting state (AP or STA mode).

4.2 Power saving mode

When the controller in the situation of setup mode without any key press in 30 seconds, the screen background light will be closed, and if within 30 seconds there is still no any key press, the controller will go into the energy saving mode.

When the controller is in the energy saving mode, the first line of the screen shows that the current date and mode; the second line displays the current time.

Energy saving mode is as shown in figure 1:

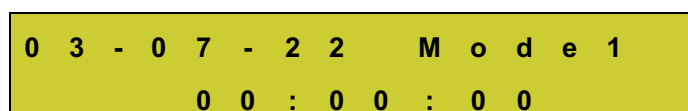


Figure 1

4.3 Setup mode

① Press "Menu" button in the main menu, it will enter into the time display interface.

The first line of the time display interface shows the current time or date and mode, it will automatically switch every two seconds.

The second line shows that "[Menu]", press "Enter" button to access the main menu interface.

Time display interface is as shown in figure 2:

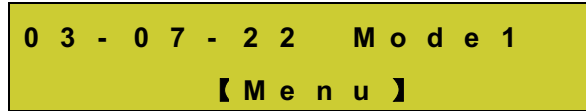


Figure 2

② When press "Enter" button in the time display interface , or "Menu" button in the submenu of the main Menu , it will go into the main Menu.

The first line shows the location of "[Menu]" in the main Menu of the display.

The second line of the display shows "1. Mode", "2. Setup" or "3. Run", that you can switch each mode by pressing the key "+" and "-".

Press "Enter" button, it will access the corresponding setting mode; and press the "Menu" button to return to the time display interface.

The main menu display is as shown in figure 3:



Figure 3

③ Select "1. Mode" in the main menu and press "Enter" button to go into the mode choice options.

The first line of the display shows the location of "【 Mode 】" in mode selection status .

The second line shows that the name of mode choice such as: "Mode11".

Press the "+" or "-" key to choose mode, and save the selection mode; Press the "Menu" button to return to the main menu.

The mode choice of display is as shown in figure 4:

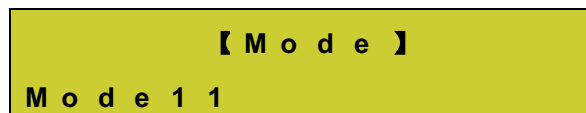


Figure 4

④ Select "2. Setup" in the main menu and press "Enter" button to go into the Setting menu;

The first line of the screen shows the location of "【 Setup 】" in the setting menu status .

The second line of the display shows "1. Time" and "2. Date" or "3. Sound", you can select setting object through the key "+" or "-".

Press "Enter" button to access the corresponding Settings, and click "Menu" button to return to the main Menu.

Setting menu is as shown in figure 5:



Figure 5

I. In the status of setting menu, choose "1. Time" and press "Enter" button, it will enter into time setting mode;

The first line of the screen shows the location of "【Time】" in the time setting status .

The second line of display shows the setting time ": hour: minute: second", for instance, "11:16:56" is the current setting time.

Press "Enter" button to choose every setting number (hour / minute /second), as you seen, in editing state, the selected area will be flashing.

Press the key "+" to add 1, when the number reach maximum, it will return around to the minimum value;

Press the key "-" to reduce 1, when the number reach minimum, it will be back to the maximum value.

Press the "Menu" button to save and return to the setting menu.

Setting mode displays as shown in figure 6:

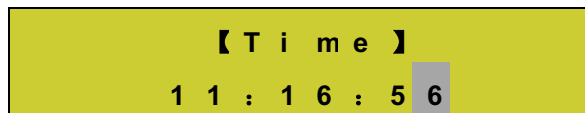


Figure 6

II. In the status of setting menu, choose "2. Date" and press "Enter" button, it will enter into date setting mode;

The first line of the screen shows the location of "【Date】" in the date setting status .

The second line of display shows the setting date " year - month - day ", for instance "13-01-01" is the current setting date.

Press "Enter" button to choose every setting number (year / month / day), as you seen, in editing state, the selected area will be flashing.

Press the key "+" to add 1, when the number reach maximum, it will return around to the minimum value;

Press the key "-" to reduce 1, when the number reach minimum, it will be back to the maximum value.

Press the "Menu" button to save and return to the setting menu.

Setting mode displays as shown in figure 7:

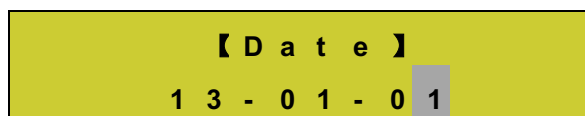


Figure 7

III. In the status of setting menu, choose " 3. Sound " and press "Enter" button, it will enter into sound setting mode;

The first line of the screen shows the location of "【sound】" in the sound setting status .

The second line of the display shows "OPEN" or "CLOSE" which means the situation of sound setting.

Press the key "+" or "-" to switch voice close or open;

Press "Menu" button to return to the setting menu.

Sound Setting is as shown in figure 8:

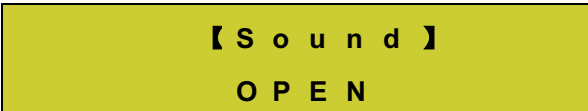


Figure 8

- ⑤ In the status of main menu , choose " 3.Run " and press "Enter" button, it will enter into run menu; The first line of the screen shows the location of " 【Run】 " in the run menu . The second line of the display shows "Start " or " Stop " which means the on/off situation of the controller. Press the key "+" or "-" to start or shut down. Press "Enter" button to execute user's option; and press the "Menu" button to return to the main Menu. Run menu displays as shown in figure 9:



Figure 9

5. Typical application

