

THC810 top 1-channel 7 day timers

The Characteristics

Up to 96 programs can be set within 24 hours or a week, and the minimum set time interval is 1 minute.
810 control contact is 1-way group 1 (1C).
If external power supply is disconnected, the lithium battery stored in the timer can also maintain working of timer for about four years. The contact state cannot be changed, but the control program is normal changeover.
Language can be changed. Choose among: English, Portuguese, Italian, Spanish, German, French.

Technical Parameters

Voltage:

- AC220-240V ■AC110-120V ■AC380V ■AC/DC12V
- AC/DC24V ■AC/DC48V ■AC85-260V

the other voltage specifications can be customized

Power consumption: max 7.5VA

Power control and contact: 16A/20A/25A: 1NO+1NC 30A: 1NO

Control way: 1way

Timing accuracy: time difference ± 1 second per day at room temperature (20°C)

Maximum setting procedure: 96

Minimum setting time: 1 minute

Display: LCD

Operation keys: four operation keys plus a reset key

Storage power: at room temperature (20°C), lithium battery can supply power for about four years

Working temperature -10°C~+40°C

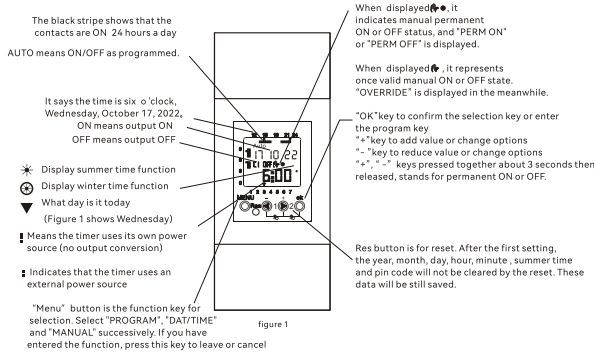


figure 1

Setting Language : (see figure 2)

When first start up, please press "Res" to reset. Then "ENGLISH 810" flashes on the display to indicate language selection. Press "+" or "-" keys to change language. (English, Portuguese, Italian, Spanish, German, French), (see figure 2), press "OK" to confirm the selected language.

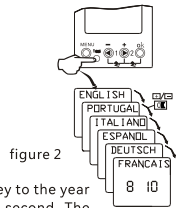


figure 2

Date Setting

- (1) After selecting the language, the screen displays "2022"; Press "+" or "-" key to the year needed, press "OK" to confirm. Then to set month, the day, hour, minute, second. The setting procedure is the same as the setting year.
- (2) If only to reset the date, there is no need to press the "Res" button, just press the "Menu" key under the general status two times (the screen shows "DAT/TIM"), and press "OK" to confirm, then enter the year, month, day, hour, minute setting and summer and winter time function selection. Setting procedure of year, month, day, hour and minute are same as (1).
- (3) After setting the minute, press "OK" button to confirm, "SUM/WIN" (summer/winter) will be displayed. Since there are many areas in the world do not use summer and winter time, if it's not needed, please press "+" button to select "END", and then press "OK" button to confirm.

Summer and Winter Time Function Settings

- (1) Under the general screen, press "Menu" button twice (the display screen shows "DAT/TIME"), and then press "OK" button to enter the date setting function. If change of setting is not needed, press "OK" button continuously until the display screen shows "SUM/WIN", and then press "OK" button to enter the summer and winter time function. (see figure 3)
- (2) After entering the function, the screen will show "NO SU/WI" or "WITH S/W", use the "+" or "-" key to change the display.
"NO SU/WI": no need for summer/winter time function, press "OK" Key confirmation to exit the setting; Return to the general status;
"WITH S/W": requires summer/winter time function, press "OK" button, the "EUROPE" option will be displayed after confirmation, at that time, "+" or "-" can be used to change (5 options are available), press OK to confirm selection.
 1. "FREE": Customized summer/winter time setting by user
 2. "EUROPE": Summer/winter time setting for Europe;
 3. "GB/P": Summer/winter time setting for Great Britain;
 4. "SF/GR/TR": Summer/winter setting for Mediterranean region;
 5. "USA/CAN": Summer/winter time for United States and Canada;

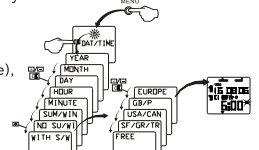


figure 3

Program Setting : (see Figure 4)

- (1) In the general screen display, press the "Menu" button (Screen displays "PROGRAM"), and press "OK" to enter the ON/OFF time program setting function. After entering, the screen will display "NEW PROG".
- (2) Press "OK" key to enter, and "FREE 96" will be displayed. It means that 96 programs can be set (up to 96 programs can be set, the serial number of the program will automatically subtract 1 after each program set up). Press "OK" to confirm, and "TIME ON" will appear, indicating setting the contact ON state. Press the "+" or "-" key to switch to "TIME OFF", indicating setting the contact "OFF" state. Press "OK" key to enter the time setting. Set time first (several minutes), please according to your demand to type the value, each completed step should with "OK" key pressing to confirm, and then set the week via "+" or "-"

key to select your demand, press "OK" key after the completion. When "COPY" appears, which indicates whether to copy this program to another date. Need copy, please press "OK"; No need for copy, please press "+" to select "STORE" and press "OK" to jump back to "NEW PROG" to set the next program.

- (3) Setting next program according to (1), (2) (96 programs can all be set as per above procedure if user needs), Press the "Menu" button to exit the program setting after the completion of the program setting.
- (4) Program inspection and editing: In the display of "NEW PROG", Press "+" or "-" key to select the required function. After selecting, press the "OK" key to confirm. "CHECK" means to check the content of the all existing program (CHECK daily ON/OFF time by week)

"MODIFY" means to modify the program

"CLEAR" means to clear existing program

"SINGLE" clears single program, "ALL" clears all programs.

"END" means to end up program setting.

(5) clear program Settings (see figure 5) :

To clear the PROGRAM, go to "PROGRAM" setting. Press "Menu" to enter "PROGRAM" and press "OK" key to confirm. Then press "+" or "-" and select "CLEAR" and press "OK" to confirm. Select "SINGLE" or "ALL" as per requirement.

Battery Power Saving Function

When using the built-in power supply, if there is a set date, time and procedures, or stay in the state of language screen, as long as no operation of any button within 3 minutes, the screen will automatically close to save battery consumption. Press any button to restore the original screen.

Set key lock (see figure 6)

- (1) In general display, press 'Menu' button three times, and 'MANUAL' will appear. The 'MAN' at the top of the screen will continue to flash, press "OK" and then via "+" or "-" key to enter "PIN" interface, select "PIN", Press OK again and you'll see "WITH PIN" or "NO PIN" using "+" or "-" key to select.

- (2) Set pin code (total 4 digits) : When screen shows "WITH", press "OK" key to enter "PIN" operation. Using "+" or "-" key to select 0 ~ 9

Arabic number, press "OK" once after setting a number. (example: if pin code is set to 0000, press "OK" for 4 consecutive times to complete the setting). After setting up, please be sure to remember the pin code. Attention please, when pin code inadvertently forgotten, the product can only be returned to manufacturer.

- (3) After setting, it will directly jump back to the main screen. If user wants to change any settings, be sure to enter the correct pin code. If there is no operation for more than 60 seconds after changing the setting, user needs to re-enter the correct pin code to change the setting again.

- (4) Remove the pin code: enter the "PIN" display and press "OK" button, with "+" or "-" key to select "NO PIN", press "OK" key again to cancel the pin code, and the display will return immediately

Other Notice

- If no setting is made for 30s, the timer will return to the time display, and you can enter the specified steps according to the entry method in the manual.
- The setting time cannot be cross-set and should be set in the order of time.

- Please do not use it in dusty, corrosive gas, direct sunlight or rainy places.
- Please store and use under rated voltage and specified temperature and humidity conditions.
- Discarded electrical products shall not be disposed of together with domestic waste and shall be recycled in places with facilities.

Holiday

- (1) Press "Menu" button continuously until the screen displays "MANUAL", and press "OK" button to confirm entry.
- (2) Press "+" or "-" keys to select. When the screen displays "HOLIDAY", press "OK" to confirm the access. The screen shows "START" (setting holiday start date) to set "YEAR", "MONTH" and "DAY", Please use "+" or "-" key to input the required value. Press "OK" Button after each time setting finished. Then "END" shows up (Setting the date of end of holiday). Press "OK" Button after each time setting finished.
- (3) To cancel holiday, press "Menu" until the screen displays "MANUAL", press "OK" to select and the screen will display "HOLIDAY", press "OK" to confirm and use "+" or "-" key to select "CLEAR". Then press "OK" to confirm cancel.

Override

Under the automatic control mode, the output status can be changed manually without affecting the automatic function of subsequent programs, which is "once effective output change function".

- (1) Press "Menu" button continuously until the screen displays "MANUAL", and press "OK" button to confirm entry.
- (2) Press "+" and "-" keys to select. When the display displays "OVERRIDE", press "OK" to confirm the access.
- (3) To cancel once, press "Menu" until the screen displays "MANUAL", press "OK" to confirm entry, and the screen will display "CLEAR", press "OK" to confirm the cancel.

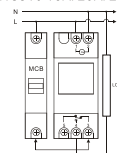
Perm ON/OFF

Under the automatic control mode, the output status can be changed manually without affecting the existence of the set program. The output state is a persistent state which only can be cancelled after next manually changing.

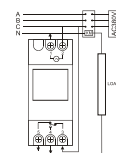
- (1) Press "Menu" button continuously until the screen displays "MANUAL", and press "OK" button to confirm entry.
- (2) Through the "+" "-" key selection, when screen displays "PERM ON/OFF", press "OK" button to confirm entry.
- (3) To cancel permanent on/off, press "Menu" until the screen displays "MANUAL", press "OK" to confirm entry, and the screen will display "CLEAR" and press "OK" to confirm to cancel.

Wiring Diagram

THC810 16A/20A/25A

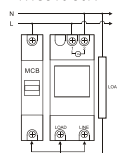


Single phase 220V

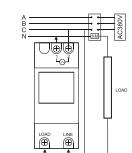


Three phase 380V

THC810 30A



Single phase 220V



Three phase 380V

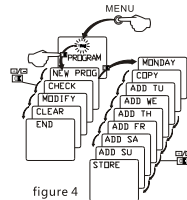


figure 4

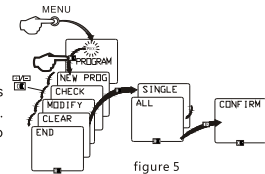


figure 5

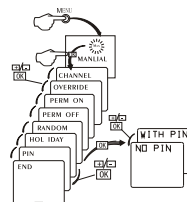


figure 7

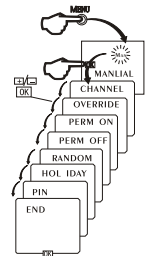


figure 6