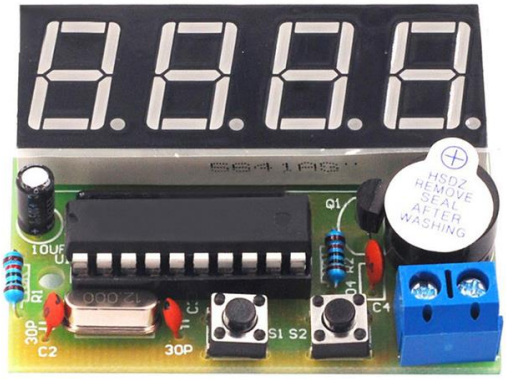
Multi-function 4 Bit Digital Clock
51 Single Chip DIY Kit



Description:

This product is a 4-digit digital clock kit, which needs to be welded and assembled by itself. It is suitable for the installation and learning of electronic enthusiasts and major electronic vocational schools. The program of the MCU has been tested, and no electronic version of the program is provided.

Features:

1. It adopts 4-digit 0.56-inch clock-specific display;
2. The PCB board is made of high-quality fiberglass board sprayed with tin;
3. The optimized design is specially designed for training, which is convenient to withstand repeated desoldering, which can improve the use efficiency.
4. In order to reduce the difficulty of installation, all components are straight plug-ins;
5. The single-chip microcomputer adopts AT89C2051 or its compatible single-chip microcomputer, and the program has been written well;
6. With power supply terminal block, battery interface is also reserved, which can realize power-down timing function;
7. Supply voltage: 3V-5.5V
8. Equipped with a single-chip IC socket for easy upgrade and learning;
9. Accurate travel time, monthly error of about 3 seconds.

Functions:

- When the time is normal, the time is displayed (the two points are not flashing).
- The hour and minute are independently adjustable.
- Time second correction function.
- You can fine tune the speed of the clock, 0--9 is adjustable, the default is in the 5th.
- Two alarm clocks, and the alarm switch can be set independently.
- Whole point prompt function, and can turn off the turn-on point reminder function.
- Equipped with a battery interface, you can power off when you go. The battery only needs to be larger than 3V to ensure that the power is off. Use two 5th batteries, three 5th batteries, or a mobile phone battery.
- Countdown function, can count down within 99 minutes, countdown to end the alarm.
- Stopwatch function, pause the stopwatch and clear out.
- The counter function can be implemented, and the number of key presses can be recorded. It is also possible to record the number of external pulses.

Operation Instructions:

Power-on display 12:59 travel time interface, the default two-way alarm clock is turned on and the first alarm clock is set at 13:01; the second alarm clock is set at 13:02.
Shortly press **S2** after power-on to switch between the time-division travel time interface and the minute-second travel time interface; press and hold the **S1** key to enter the system menu settings, there are nine sub-groups A, B, C, D, E, F, G, H, and I. In the Menu, short press **S1** submenu to add 1 and finally return to the walk time interface.

A Submenu corrects the hour, press **S2** to increase it by 1; after adjustment, press **S1** to save and exit this submenu to enter B submenu.

B Submenu corrects the minute, press **S2** to increase it by 1; after adjustment, press **S1** to save and exit this submenu to enter the C submenu.

C Submenu chime switch, the default status is ON (. 8 am to 20 is the point Chime open) by **S2** may be ON and OFF (turned switch off between chime); then press **S1** to save and exit. The menu enters the D submenu.

D submenu is a first alarm switch path, the default status is ON (the first alarm on the road) by **S2** may be ON and OFF (turn off the first path alarm clock) to switch between. If set to ON , short press **S1** to save and exit this submenu to enter the E submenu; if set to OFF, short press **S1** to save and exit directly to enter the G submenu.

E submenu first alarm clock hour setting, press **S2** to increase 1; after adjustment, short press **S1** to save this submenu and enter F submenu.

F submenu first alarm clock minute setting, press **S2** to increase 1; after adjustment, short press **S1** to save this submenu and enter G submenu.

G submenu second alarm switch path, the default status is ON (the second alarm on the road), by **S2** may be ON and OFF (to close the second passage alarm clock) to switch between. If set to ON, short press **S1** to save and exit this submenu to enter the H submenu; if set to OFF short press **S1** to save and exit directly to the travel time interface.

H submenu second alarm clock hour setting, press **S2** to increase 1; after adjustment, short press **S1** to save this submenu to enter I submenu.

I submenu second alarm clock minute setting, press **S2** to increase 1; after adjustment, short press **S1** to save this submenu and return to the travel time interface.

Time seconds correction: Short press **S2** to enter the minute and second display interface during the walk time interface. Press and hold **S2** to reset the seconds to zero. After the seconds return to zero, press **S2** twice to check whether the current seconds are on time.

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