Product Name :	**Product Code :**
MCU Training and Testing Devices	CIVIL-MCU-98-0001

Description :

MCU Training and Testing Devices

Technical Specification :

Our
structure, including power supply, smallest single-chip system, ISP
downloader, MCU simulated load, matrix keypad, nixie tube, logic level
indication, logic level input, various I / O interface chips frequently
used by microcontrollers, 122 × 32 dot matrix LCD application circuit,
KEIL programming software, PROTEL drawing software, and others. The
power supply unit can provide various low-voltage power supply required
by experiments, such as ± 5V/1A DC voltage source, ± 12V/1A DC voltage
source, and 5V/3A DC voltage source.

On this MCU training and testing device, students can finish a lot of
training content, like the understanding of the smallest single-chip
system, programming training, analog unit training, expansion of SCM,
etc. Complete the training of basic skills, professional skills and job
skills through the project content drafting, project analysis, project
implementation, project summary, and capacity assessment.

Experimental training content

I. Electronic Part

1. Differential amplifier

2. Common-emitter single-tube amplifier

3. Two-stage transistor amplifier

4. FET amplifier

5. Negative feedback amplifier

6. Emitter follower

7. RC sine wave oscillator

8. LC sine-wave oscillator

9. Integrated operational amplifier indicator test

10. Basic application of integrated operational amplifier - Analog arithmetic circuit

11. Basic application of integrated operational amplifier - Waveform generator

12. DC stabilized power supply - Transistor regulated power supply

13. DC stabilized power supply - Integrated voltage regulator

14. Low-frequency power amplifier - Integrated power amplifier

15. Logic functions and parametric tests of TTL integrated logic gate

16. Logic functions and parametric tests of CMOS integrated logic gate

17. Design and test of combinational logic circuit

18. Decoder and its application

19. Data selector and its application

20. Flip-flop and its application

21. Counter and its application

22. Shift register and its application

23. Pulse distributor and its application

24. Using gate circuit to generate pulse signal

25. Monostable trigger and Schmitt trigger

26. 555 time base circuit and its application

27. Intelligence contest responder device

28. Electronic stopwatch

II. SCM Part

1. Binary code to BCD code conversion

2. Binary code to ASCII code conversion

3. Program jump table

4. Memory block movement

5. Data sorting

6. I / O

7. Counter

8. Timer

9. Digital clock

10. External interrupt

11. Basic I / O port experiment

12. Relay control experiment

13. A/D conversion experiment

14. D/A conversion experiment

15. Electronic organ simulation

16. Calculator

17. Static serial display

18. Dynamic scanning display

19. Query-based keyboard

20. Array-style keyboard

21. Buzzer sound experiment

22. RS232 serial communication of the SCM and PC

23. 16 × 2 dot matrix liquid crystal display

24. LED dot matrix display

25. 8255 expansion

26. Digital voltmeter

27. V / F conversion interface circuit

28. Digital frequency meter

29. Real-time clock experiment

30. Stepper motor motion control

31. DC motor control