

M21-5000

Feature

- High level, high quality digital trainer
- Combines all essential function of digital experiment
- With removable breadboard, DC power supply, pulse generator, two pulse switches, digital probe, TTL/CMOS selector and etc.

Specification

1. SOLDERLESS BREADBOARD:

Interconnected with 2820 tie points nickel plated contact, fitted all DIP sizes and all components with lead and solid wire AWG # 22-30 (0.3-0.8mm). It can be changed and replaced for different purpose and can be connected with demonstration panel. Therefore, it is very convenient for both teachers and students.

2. DC POWER SUPPLY:

- Fixed DC output: +5V, 1A
- Fixed DC output: -5V, 1A
- Variable DC output: +3V to +15V, 1A
- Variable DC output: -3V to -15V, 1A.

3. MODE SELECTOR SWITCH:

When the switch is put on "TTL" or "CMOS" position, the input or output of pulse generator, pulser switches, 8 bits data switches digital probe, 8 bit LED display will meet the HI or LO level of "TTL" or "CMOS".

4. TWO DIGITS OF 7 SEGMENT LED DISPLAY:

5. PULSE GENERATOR:

- Duty cycle: 50%
- Frequency range:
 - 1Hz ~ 10Hz
 - 10Hz ~ 100Hz
 - 100Hz ~ 1kHz
 - 1kHz ~ 10kHz
 - 10kHz ~ 100kHz
 - 100kHz ~ 1MHz

(C) Amplitude: 0 ~ 10Vpp

(D) TTL/CMOS mode output

TTL: +4V

CMOS: +VDC (depend on the +VDC output)

6. SIXTEEN BITS LED DISPLAY:

Set mode selector switch to "TTL" position

Logic Level	Input level	Display light up
LO	$<0.8 \pm 0.2V$	Green
HI	$>2.3 \pm 0.2V$	Red
Open	0.8 ~ 2.3	No display

Set mode selector switch to "CMOS" position

Logic Level	Input level	Display light up
LO	$<30\% + VDC \pm 10\%$	Green
HI	$>70\% + VDC \pm 10\%$	Red
Open	30% ~ 70% +VDC	No display

7. TWO PULSE SWITCH:

- A, /A, B, /B output
- Output level:
 - TTL: HI=4V LO=0.1V
 - CMOS: HI=+VDC LO=0.1V

8. SIXTEEN DATA SWITCHES:

- TTL: HI=4V LO=0V
- CMOS: HI=+VDC LO=0V

9. DIGITAL PROBES:

Set mode selector switch to "TTL" position

Logic Level	Input level	Display light up
LO	$<0.8 \pm 0.2V$	L
HI	$>2.3 \pm 0.2V$	H
Open	0.8 ~ 2.3	O
Transit	LO-->HI	P

Set mode selector switch to "CMOS" position

Logic Level	Input level	Display light up
LO	$<30\% + VDC \pm 10\%$	L
HI	$>70\% + VDC \pm 10\%$	H
Open	30% ~ 70% +VDC	O
Transit	LO-->HI	P

Memory: the two points of LED beside 7 segment LED display will keep lighting when they are in "level transition" (LO-->HI or HI-->LO)

10. OTHER STANDARD ACCESSORIES:

- Power cord
- Pin: 10cm 20pcs/20cm 20pcs
- User manual

11. Input Voltage: 110~127VAC $\pm 10\%$ 60Hz, 220~240 $\pm 10\%$ 50Hz Switchable

12. DIMENSIONS(W×H×D): 334×95×258mm

13. WEIGHT: 4.5kg



M21-5000