M21-7000 (E

Feature

- . High level, high quality digital-analog trainer
- Combines all essential function of analog and digital
- . With removable breadboard, DC power supply, function generator, two pulse switches, 2 1/2 inch 8 ohm 0.5W speaker 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:

- A. Fixed DC output: +5V, 1A
- B. Fixed DC output: -5V, 1 A
 C. Variable DC output: 0V to +15V, 1 A.
- D. Variable DC output: 0V to 15V, 1A.

3. POTENTIOMETERS:

- A. Variable resistor VR 1 = $1k\Omega$
- B. Variable resistor VR2 = $100k \Omega$

4. FUNCTION GENERATOR:

(A)Frequency range: 1Hz 10Hz 10Hz 100Hz 100Hz 1kHz 1kHz 10kHz 10kHz 100kHz

(B)Amplitude

Sine wave output: 0 10 Vpp variable Triangle wave output: 0 10 Vpp variable Square wave output: 0 10 Vpp variable TTL mode output: 4 Vpp

5. SIXTEEN BITS DATA SWITCHES:

16pcs toggle switches and corresponding output point. When switch is set at "down" position, the output is LO level; contrarily, it is to be HI level while setting at "up" position.

6. TWO PULSE SWITCH:

(WITH 2 SET OF OUTPUT: (A, A, B, B)) 2pcs pushbuttons contain switches debouncer for eliminating the bounce caused by switch from "open" to "close" or from "close" to "open" position.

7. SPEAKER:

2-1/2 inch diameter, 8 ohm/0.5W to be used for load.

8. FOUR CHANNELADAPTOR:

Both of the two banana sockets' and two BNC jacks' point tips are changeable. It is suitable for M21-7000 to be connected with peripherals.

9. TWO DIGITS OF 7 SEGMENT LED DISPLAY:

(A) Output display

Numerical designs and resultant displays



M21-7000 ANALOG & DIGITAL TRAINING SYS 00000000000 M21-7000

(B) Function tables

T direction tables										
Decimal Or		Inputs			Outputs					
Function	D	C	В	Α	а	b	C	d	е	f g
0	L	L	L	L	L	L	L	L	L	LH
1	L	L	L	Н	Н	L	L	Н	Н	нн
2	L	L	Н	L	L	L	Н	L	L	ΗL
3	L	L	Н	Н	L	L	L	L	Н	ΗL
4	L	Н	L	L	Н	L	L	Н	Н	LL
5	L	Н	L	Н	L	Н	L	L	Н	LL
6	L	Н	Н	L	Н	Н	L	L	L	LL
7	L	Н	Н	Н	L	L	L	Н	Н	нн
8	Н	L	L	L	L	L	L	L	L	LL
9	Н	L	L	Н	L	L	L	Н	Н	LL
10	Н	L	Н	L	Н	Н	Н	L	L	ΗL
11	Н	L	Н	Н	Н	Н	L	L	Н	ΗL
12	Н	Н	L	L	Н	L	Н	Н	Н	LL
13	Н	Н	L	Н	L	Н	Н	L	Н	LL
14	Н	Н	Н	L	Н	Н	Н	L	L	LL
15	Н	Н	Н	Н	Н	Н	Н	Н	Н	нн

10. SIXTEEN BITS LED DISPLAY:

16 red LED's separate input terminals. The LED will be lighted up when input is at "HI level", and it will be turned off when it is at no input or at "LO level".

11. UNIVERSAL CONNECTOR FIXED HOLDER:

It reserves universal connector fixed holder on the panel in order to be connected with various universal connectors, which are available as below: optional accessories:

- (1) Straight header 60 pin
- (2) Card edge connector 2.54mm 62pin
- (3) D sub25 pin connector, male & female
- (4) Card edge connector 3.96mm 56pin
- (5) Dip sockets connector 28 pin & 40 pin

12. OTHER STANDARD ACCESSORIES:

- (1) Power cord
- (2) Pin: 10cm 20pcs/20cm 20pcs
- (3) User manual
- 13. INPUT VOLTAGE: 110~127VAC±10% 60Hz, 220~240±10% 50Hz
- 14. DIMENSIONS(W×H×D): 258×95×334mm
- 15. WEIGHT: 4.5kg