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## Feature

. High level, high quality digital-analog trainer
. Combines allessential function of analog and digital experiment
. With removablebreadboard, DC powersupply, function generator, two pulse switches, 2 1/4 inch 8 ohm 0.25 W 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 fordifferent purpose and can be connected with demonstration panel.
Therefore, it is very convenient forboth teachers and students.
2. DC POWER SUPPLY:
A. Fixed DC output: $+5 \mathrm{~V}, 1 \mathrm{~A}$
B. Fixed DC output: $-5 \mathrm{~V}, 1 \mathrm{~A}$
C. Variable DC output: 0 V to $+15 \mathrm{~V}, 1 \mathrm{~A}$.
D. Variable DC output: $0 V$ to $-15 \mathrm{~V}, 1 \mathrm{~A}$.

## 3. POTENTIOMETERS:

A. Variable resistor VR1 $=1 \mathrm{k} \Omega$
B. Variable resistor $\mathrm{VR} 2=100 \mathrm{k} \Omega$
4. FUNCTION GENERATOR:
(A) Frequency range: $1 \mathrm{~Hz}-10 \mathrm{~Hz}$
$10 \mathrm{~Hz}-100 \mathrm{~Hz}$
$100 \mathrm{~Hz}-1 \mathrm{kHz}$
$1 \mathrm{kHz}-10 \mathrm{kHz}$
$10 \mathrm{kHz}-100 \mathrm{kHz}$
(B) Amplitude

Sine wave output: $0-10 \mathrm{Vpp}$ variable
Triangle wave output: $0-10 \mathrm{Vpp}$ variable
Square wave output: 0-10 Vpp variable
TTL mode output: 4 Vpp
5. SIXTEEN BITS DATA SWITCHES:

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

## 6. TWO PULSE SWITCH

(WITH 2 SETOF OUTPUT: ( $\bar{A}, A, B, B)$ )
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

segment identification


M21-7000
(B) Function tables

10. SIXTEEN BITSLED DISPLAY:

16 red LED's separate input terminals. The LED will be lighted up when inputis at "HI level", and it will be turned off when it is at no inputor at "LO level".
11. UNIVERSAL CONNECTORFIXED 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 2.54 mm 62 pin
(3) D sub25 pin connector, male \& female
(4) Card edge connector 3.96 mm 56 pin
(5) Dip sockets connector 28 pin \& 40 pin
12. OTHER STANDARD ACCESSORIES:
(1) Power cord
(2) $\operatorname{Pin}: 10 \mathrm{pcs}$
(3) User manual
13. DIMENSIONS $(W \times H \times D): 258 \times 95 \times 334 \mathrm{~mm}$
14. WEIGHT: 4.5 kg

