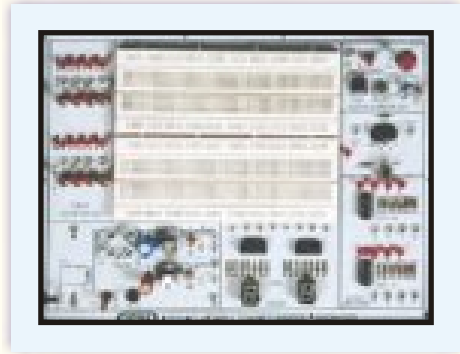




ELECTRONICS CIRCUITS APPLICATION TRAINER

MODEL -ESDM100

This trainer has been designed with a view to perform various Diode application circuits, Transistor circuits, Voltage regulation circuits, amplifier and oscillator circuits etc and large number of other experimental circuits.



SPECIFICATIONS

(1) Following components are provided on P.C.B. on tags:

1. GE point contact Diode	: 2 Nos.
2. GE junction Diode	: 2 Nos.
3. GE bias stabilization Diode	: 2 Nos.
4. SI junction Diode	: 2 Nos.
5. Zener Diode	: 6 Nos.
6. Varicap Diode	: 2 Nos.
7. Tunnel Diode	: 1 Nos.
8. Rectifying Diodes	: 8 Nos.
9. Signal Diodes	: 2 Nos.
10. Switching Diode	: 4 Nos.
11. Transistors - NPN	: 4 Nos.
12. Transistors - PNP	: 4 Nos.
13. N Channel FET	: 2 Nos.
14. N Channel MOSFET	: 2 Nos.
15. Medium Power Transistor-PNP	: 2 Nos.
16. Medium Power Transistor-NPN	: 2 Nos.
17. High Power Transistor -PNP	: 2 Nos.
18. High Power Transistor -NPN	: 2 Nos.
19. R.F. Transistor	: 3 Nos.
20. Switching Transistor	: 2 Nos.
21. Matched Transistor Pair	: 1 Nos.
22. UJT	: 2 Nos.
23. PUT	: 1 Nos.
24. Diac	: 2 Nos.
25. Traic	: 2 Nos.
26. SCR	: 2 Nos.
27. Thermistor - NTC	: 1 Nos.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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Dealer:-

28. Thermistor - PTC	:	1 Nos.
29. VDR	:	1 Nos.
30. LDR	:	1 Nos.
31. LED	:	4 Nos.
32. Photo Diodes	:	2 Nos.
33. Photo Transistor	:	2 Nos.
34. Photo Cells	:	2 Nos.
35. Opto Coupler	:	1 Nos.
36. Opto-isolators	:	2 Nos.
37. Potentiometers	:	4 Nos.
38. Relay	:	2 Nos.
39. Reed Relay	:	1 Nos.
40. 1/2 Watts Resistors	:	72 Nos. (different values).
41. Capacitors	:	32 Nos. (different values).
42. Oscillator Coils (Inductors)	:	2 Nos.
43. A.F. and Power Transformer	:	4 Nos.
44. I.F. Transformer (IFT)	:	3 Nos.
45. Loud speaker	:	1 Nos.
46. Pulsar with dual polarity	:	1 Nos.
47. Electronic load	:	2 Nos.
48. Variable Capacitors	:	1 Nos.
49. DPDT switch	:	2 Nos.
50. 16 pin IC sockets	:	2 Nos.
(2) Built in Power Supply	:	+ 5V, 500mA, +15V, 500mA, -15 V, 500mA, 0 to + 20 V DC variable, 1A. 0 to - 20 V DC variable, 1A. 0 to 70V, 50mA. Short circuit protected.
(3) Built-in AC source	:	15-0-15 V AC, 500mA. 6.3-0-6.3 V AC, 500mA.
(4) LED output level indicators	:	4 Nos.
(5) Logic input switches	:	4 Nos.
(6) Dot Bar Display	:	10 LEDs.
(7) Display	:	2 No seven segment display with decoder drivers.
(8) Built-in function Generator	:	Sine, Square and Triangular waves. Frequency - 0.1 Hz to 100Khz and Amplitude - 0 to 10Vpp variable.
(9) Audio Amplifier	:	1 Watt output with speaker.
(10) TTL clock generator	:	1Hz to 1MHz in 6 range.
(11) Bread Board	:	1280Tie point and 1 Distribution strip Breadboard provided - 175mm long accepting 0.56 mm dia (24 SWG) ordinary wires for bread boarding ckts. Slot marking provided. The conducting strip is of SnCu.
(12) Schematic Diagram	:	The schematic circuit diagram printed on P.C.B. for all Terminals, switches, Components and power supplies.
(13) Standard Accessories	:	1. A Instructional Manual 2. Connecting wires in assorted colours.