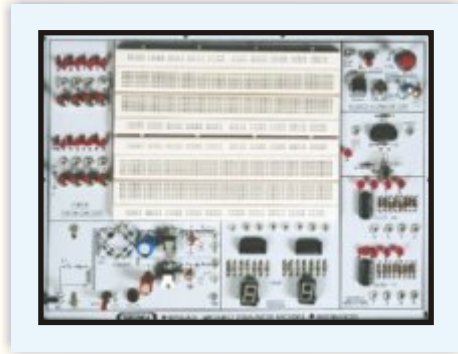




# ELECTRONICS CIRCUITS APPLICATION TRAINER MODEL -ESDM100

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.