



# MOBILE PHONE TRAINER

## MODEL - MOBILE100

This trainer has been designed with a view to provide practical and experimental knowledge of a Mobile Phone.



### FEATURES

1. Measurement of test point voltages.
2. Observation of test point Waveforms.
3. A detailed manual containing different practical are provided with the board.

### SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz for charging phone battery with adaptor
2. Battery : Built in Ni-Cd battery.
3. Technology : GSM
4. Display : Three lines.
5. Phone Memory : 100 Nos.
6. Answered Call memory : 5 Nos.
7. Last dialed call memory : 10 Nos.
8. Battery charging Time : 2 Hrs.
9. Facilities : STD and ISD facility, Caller line identification
10. SIM card : Pre-paid with Local service provider for Rs. 500/- airtime only.  
Recharging/renewal has to be done by customer afterwards.
11. Test Points : 28 Nos.
12. Faults : 14 Nos.
13. All components should be soldered on Single PCB of size 12" x 9" on the front side of PCB with complete circuit diagram Screen-printed section wise in multi-colour with 2mm multicolored sockets.
14. The parts and circuit must be on front side of PCB with true value printed.
15. The 2mm testing points should be provided with 1.25" tags to connect CRO.
16. The PCB with components should be fitted in elegant wooden box having lock and key arrangement and acrylic cover is fitted on PCB with holes for alignment and repair.
17. Standard Accessories : 1. A Training Manual

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:-**

## EXPERIMENTS

1. Introduction and general theory of Mobile Phone
2. To Study Specifications of a Cellular Phone
3. To Study Installation procedure
4. To Study the Block Diagram and Working principal
5. To Study the terms, definition and nomenclature used
6. To Study Input/output signals of different sections
7. To Study Ringer section
8. To Study Dialer Section
9. To Study Speech Amplifier Section
10. To Study Keyboard Matrix Section
11. To Study Transmitter Section
12. To Study Receiver Section
13. To study transmission/reception theory - (CDMA)
14. To study details of SIM card
15. To understand charging of Hand Set
16. To understand and perform operational procedure
17. To understand the testing procedure
18. To demonstrate and understand different types of faults
19. To study faults diagnosis method
20. To study the facilities provided by cellular company
21. To study cables & add-on accessories for Cell phones
22. To understand features of latest Cell phones
23. To compare features of some typical Cell phones available in market
24. To study Cellophane operator Companies and their plan and tariff.
25. To study some common questions