



Technical Specification

A] Aluminum profile sturdy flat demo panel (table top) system, having top row carrying tube, led lamp, metal halide/halogen etc., While bottom 3 rows carry various device panels as below & it is fronted by particle board for wiring practice with inclination settable.

1phase AC input supply panel (TMT16A)

- 1ph., MCBs of 4A/1.6A-2Nos

Grounding * protection panel (TMT36)

- Consists of a 2 pole Earth Leakage Circuit Breaker (ELCB) 25A with current imbalance of 30mA.
- One No push button to create Earth leakage fault.
- One SPDT to select HI-leakage or LO-leakage fault.
- One 15W bulb for Hi-leakage fault & 22KW resistor for Lo leakage fault

Integrated AC (1phase) measurement (TMT20F)

- 1nos of Digital meter for 1ph. parameter V, I, W, Wh, VA, VAR, Hz, etc.
- Current specs = 1A/5A for 1ph. meter (170-250V).

AC power supply panel (TIT1)-2nos

- AC OSARAM power supply for metal halide lamp 70W (max,5KV).
- Input 230VAC/0.4A

DC power supply panel (TIT2)

- SMPS power supply for LED
- Input 230VAC, Output+12V/5A,60W
- DC supply for down lighter

Switches panel (TIT3)

- One way switch = 2nos
- Two way switch = 2nos

Buzzer/bell switch/Neon panel (TIT4)

- Buzzer/bell, I/P230VAC
- Bell switch
- Neon lamp indicator
- Kitkat fuse

Dimmer/Fault panel (TIT5)

- Dimmer
- Fault = 2nos

Sockets panel (TIT6)

- Three pin AC mains Sockets = 3nos
- 230V/10A rating

DC switch panel (TIT7)

- Double pole single through four terminal S/W = 2nos
- Rating 32A/240VAC

Lamp panel (TIT7)

- Incandescent lamp - 3nos, CFL tube = 1 no

Various lamp/Tubes provided

- Metal Halide lamp (70W)
- Electronic tube
- Point source LED
- Strip LED
- Electric Tube

Display panel (TIT8) Showing Various wiring accessories

- Conduit, Elbow joints, casing taping,
- Cleats, Batten with clips, cable/wires etc.

Wiring practice board (1100X300X20 mm)

- A replaceable 20 mm particle / PVC board is mounted horizontally between legs like a drawer. It is used for wiring practice by students using self tapping screws & wiring accessories use drilling machine to drill holes. All banging by hammer.

List of experiment

1. Electrical Safety Rules for working in laboratories
2. Variety of wiring experiments based on above operational panels
3. Study of protective devices panel
4. Study and use of Measurement devices
5. Understanding working of various types of lamps including tube, led & other high intensity lamps
6. Hands on wiring practice using cables, casing and hand tools

Accessories: Drill machine, screw driver set self, self tapping screws, drill bits (3mm,4mm)

Mechanical Dimension (mm) of Trainer:

- 1170(L) X 300(W) X 900(H)
- Net Weight: 42kg.

Note: Specifications are subject to change.

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