IDMT OVER CURRENT RELAY TRAINER (TMS-PRT/OCR) (ELECTROMECH / NUMERIC)




SALIENT FEATURES

- Facilitates characteristics of IDMT/DMT over current relay.
- Each of above trainer has built in requisite relay testing kit typically consisting of voltage injector, current injector, elapsed time counter (1 msec resolution), trip relay logic etc.
- The trainer need a few set of associated relay testing (current / voltage injection etc.) panels (7-8 nos. typically) which are mounted in a light weight sturdy aluminum profile flat demo panel system. Do not need any separate testing kit.
- Facilitates easy and safe wiring by students due to use of 4mm sturdy Shrouded banana patch cords and shrouded socket arrange-ments for high voltage circuits
- Each panel has ABS molded plastic sturdy enclosure, and colorful screwless overlays showing circuits diagrams & its connection tag numbers for easy understanding and connection
- Useful for Post Graduate projects and research purpose.
- Set of Instructor Guide & Student Workbook

Technical Specifications

- **1 phase AC Input supply panel (EMT16A)**
- 1ph. MCBs of 4A/1.6A - 2nos.
- Bulb Load.
- **Variable voltage & current injector panel (EMT23A)**
- Consist of 1 phase dimmer 230VAC/1A
- Short circuit transformer with primary 230VAC/1A, secondary 0-2-8V/12Ataps.
- **Over current & elapsed time measurement panel (EMT 39)**
- Consists of AC ammeter of 20A
- Elapsed time counter range 999.001 sec, resolution 1 msec.
- **Over Current Relay Panel (EMT45/EMT50)**
- All the connection of relay are brought out on this panel.
- 2 NO trip contacts.
- Relay Coil

Protection relay type (EM/Static /Num)

Numerical IDMT over current relay, current rating 5A, with different current settings & time setting 0.1 to 1.

List of Experiments

- To plot Inverse Definite Minimum Time (IDMT) characteristics of over current relay.
- To perform experiment on definite / instantaneous mode setting of the relay.

- **Optional Relays**

1) Electromechanical Non Directional IDMT over current relay
2) Electro mechanical Directional IDMT over current relay
3) Combined Over Current and Earth Fault Numerical Relay
4) Directional Inverse Time over current static relay
5) Neutral Displacement (Earth Fault Warning) Relay

- **Mechanical Dimensions :**
  960(L) x 300 (W) x 720 (H)
- **Net Wt. =** 17 Kg. **Gross Wt. =** 28 kg.