

**Product Code:**  
**AL-E310**

## CATALOGUE

#118, Karanpuri, Behind B.D.Floor, Ambala Cantt, Haryana (India),

### 1. DISTRIBUTION AND TRANSMISSION LINE TRAINER:

#### Specifications:

- Electrical control panel with 1 Nos. 3 phase 3KVA transformer.(1KVA per phase)
- Panel size 42"x24 and 36x26"
- Distribution Protection with 3 Phase Over Voltage, Under Voltage combined and Over-Current 1 phase Relay
- Transformer provided will be high quality copper wound
- Primary of transformer of 440V and secondary of the transformer will be 220V.
- Transformer will be differently housed in a MS powder cabinet for easy carrying and other general use.
- Transmission line made of RLC component for 400 meter. Line simulation.
- Electrical panel fitted with front panel of high class insulated Bakelite sheet 6mm of thickness.
- It is fitted with appropriate Digital voltmeter, ammeter to record the readings.
- Short circuit protection with the help of MCB.
- 1 NOS. 5A variable AC Supply is provided separately through variac for short circuit test.
- 3 Types load system will be provided resistive (internally), inductive (Externally) and Capacitive (Internally).
- Lamp loads are of star connected (2 nos.) and delta (1nos.) connected on the front panel.
- Connections through 4mm highly shockproof safety sockets
- Supplied with instruction manual
- Digital Voltmeter Ammeter are connected on the front panel to measurement the electrical voltage current system.
- Load distribution connected with 4 mm education terminals with 4 pole Mcb 4 nos.

#### Product Photographs:



### Experiments:

1. Study of 3 phase transmission line parameters
2. Study of different loads in ring and Radial distribution system
3. Voltage and current measurement under 3 phase balanced unbalanced load at distribution transformer
4. Transmission line loss measurement
5. Operation of relays distribution protection system with overvoltage , overcurrent , undervoltage relay.

### Accessories:

1. 3 Phase Auto Transformer Close Type 5A per Phase
2. 3 Phase Step down Transformer Close Type 1KVA per Phase
3. 3 Phase Induction Motor 1Hp as Inductive Load.
4. Adequate No of 4mm Patch Cords for Interconnection.
5. Instruction Manual

