



Electrical Installation Trainer is a rugged training system mounted on Aluminum profile rack with sturdy table top Panel. Each Panel has ABS molded plastic sturdy enclosure with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections. Trainer is having facility to control 3 phase & 1 phase circuits through Computer with 45 switchable faults locally or remotely. The product helps you to get fully acquainted with the Safety Rule and precaution for working in lab and the experiments like working of various types of Low voltage devices, various lamps power consumption, wiring practice using cables, casing & hand tools etc

Features

- Trainer having control panel provided in 30X30mm Aluminum profile rack with sturdy table top flat panel
- ISI/CE marked branded Components/ Meters are used
- Electrical Control panels are provided in MS panel mounted on the aluminum rack with mimic diagram.
- Motor/Machine/Heater/ Provided with Earth socket for protection.
- Electrical testing panel is configured with 45 faults having categories like Open Circuit, Short Circuit & Interconnections,
- Polarity, Fault Loop Impedance, Earthing, and Insulation Resistance Faults.
- All input & output are terminated in 4mm BS-10 shrouded connector, provided with 4mm shrouded cable for experiments

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Specifications**• 3 Phase AC Power Supply Panel**

- 4Pole 415V/4A MCB C Curve,
- 9A Contactor with 230V / 50 Hz / 11VA COIL
- Bimetallic Class 10 thermal O/L relay with range 1.6A - 2.5A
- R-Y-B Input display Indicators.
- Tower Light 3 level
- Manual start / stop with local trip contact

• 3 Phase AC Measurement Panel

- 3 Phase 3/4 wire, 230V, CT Input 5A, Accuracy Class 1
- LED/LCD display, Aux supply 230V AC/DC, 45-65 Hz, 5W
- V,I, Hz, Pf, KVA, KW, KWH, THD
- RS485 Communication Modbus RTU

• ELCB Protection Panel

- 4 pole Earth Leakage Circuit Breaker (ELCB) 25A with current imbalance of 30mA
- 2 pole Earth Leakage Circuit Breaker (ELCB) 25A with current imbalance of 30mA

• MCB Protection Panel

- 3Pole 220V/6A MCB C Curve
- 2Pole 220V/6A MCB C Curve (7nos)
- 1Pole 220V/6A MCB C Curve (5nos)

• Contractor Panel (4No's)

- 9A Contactor, 230V/50Hz with 3 Nos. of NO Power contact.

• HMI Display Panel (1No's)

- 10.1" HMI Display with TCP/IP interface communication
- RJ45 connector for Ethernet connection.

• CAM Switch Panel

- CAM Switch with NO Contact for Air conditioning Control terminal output at 5 pin Industrial Socket.
- CAM Switch with NO Contact for Pump Control terminal output at Screw Terminal
- CAM Switch with NO Contact for Heater Control terminal output at Screw Terminal

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• Relay Panel

- 45 numbers of 24V DC SPST relay
- Each relay support one NO & one NC Contact.

• Switch Panel

- Surface mount, 1 way, 2 terminal, 10A, 3 gang
- Surface mount, 2 way, 3 terminal, 10A, 1 gang

• Socket Panel

- 1 Phase Socket with switch, 13A, 3 prong, 9 gang
- Surface mount, 1 way, 2 terminal, 10A, 9 gang

• Application Load

- 2 Lamp Load E27 socket with 100W Bulb.
- Smoke detector

• Software

Electrical Installation software is to study view & control active faults. This software connects via a network using WiFi or Ethernet. Faults are grouped into five different categories. They can be individually applied or configured as a fault sequence.

This feature allows the instructor to store up to ten pre-defined fault sequences on each panel. As the validated fault sequences can be stored on the panel and recalled at the touch of a button, instructors can easily set which sequences to be assigned to each students to ensure that each students receives fair assessment. The panel also remembers which faults are active in the event where power supply is cut off halfway through an practicals. It allows you to re-apply those faults immediately after the next login.

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