

KEW-01

ELECTRICAL TEST BENCH

MAKE : KITEK

KEW-01 is an Antistatic Electrical Test Bench consisting of instrument Panel and working table suitable for students to learn, perform and test various experiments related to electrical. Trainer offers an excellent approach to the teaching of Electrical Machines & Electrical Relays principles by introducing a unique modular designed control unit. It provides flexibility for the students to carry out experiments over AC/DC Machines and Electrical Relays using a large selection of Industry standard inbuilt components. Instruments are internally electrically connected and are fitted in the panel such that only front panel and necessary interfaces are easily accessible to use. Three Phase 415V, 50 Hz input supply sockets are provided on the unit.



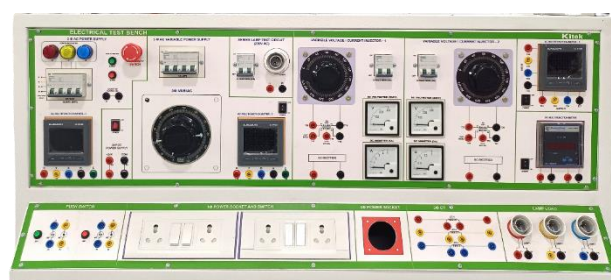
WORKSTATION FEATURES

- The complete Work Bench is Powder Coated and divided into three different section for better aesthetic looks.
- Equipped with Measurement Facilities for Experimentation on AC Machines, DC Machines and Transformers
- Terminals provided to obtain Three Phase Fixed as well as Variable AC Supply and Variable DC Supplies with suitable protection
- Basic Electronic Workbench, Heavy duty all welded (2mm X 38mm x 38mm) approx. square type of mild steel structure.
- Construction is for long wearing use. Sufficient working area with appx.18mm wooden top and anti-static mat on working area.
- The overall dimensions of the Standard workstation are Length 1250 mm, Width 1150mm & Height of 1350 mm (with leveling screws) & Depth of 800 mm
- Fixed MS drawers of size Width of 200 mm, Depth of 400 mm, Height of 300 mm and Thickness of 1.2mm with handle & lock is provided.
- An Emergency mushroom switch is provided for any unpredicted Short circuits.
- Caster Wheel with locking mechanism is provided for front side of workstation, so that it can be easily moved.
- Coating Rust Free Powder Coating
- Mimic diagram on Panel with 4mm Shrouded Socket.
- Input / Output : 4mm shrouded cable used of various length

TECHNICAL SPECIFICATION

Workbench consists of following Instruments

- **3 Phase AC Power Supply**
 - 4Pole 415V/32A MCB C Curve
 - 25A Contactor with 230V / 50 Hz / 11VA COIL
 - Bimetallic Class 10 thermal O/L relay with range 16A - 20A
 - R-Y-B Input display Indicators.
 - Manual start / stop with local trip contact
 - One Emergency Mushroom Switch
- **AC Multifunction Meter**
 - Bidirectional Multifunction
 - 3 Phase $\frac{3}{4}$ wire, 415V, CT Input 5A, Accuracy Class 1
 - Alphanumeric LED/LCD display, Aux supply 230V AC/DC, 45-65 Hz, 5W
 - V,I, Hz, Pf, KVA, KW, KWH
 - RS485 Communication Modbus RTU (Optional)
- **AC Multifunction Meter – 2 No's**
 - Individual On-Off Switch
 - Bidirectional Multifunction
 - 3 Phase $\frac{3}{4}$ wire, 415V, CT Input 5A, Accuracy Class 1
 - Alphanumeric LED/LCD display, Aux supply 230V AC/DC, 45-65 Hz, 5W
 - V,I, Hz, Pf, KVA, KW, KWH
 - RS485 Communication Modbus RTU (Optional)



- **DC Multifunction Meter Panel**
 - 1 Channel Digital Multifunction
 - 6 Digit LED/LCD Display to Measure V, A, W, Wh
 - Range 0-300VDC V, 0-20A
 - RS485 Communication Modbus RTU
- **3 Phase AC Variable Power Supply**
 - 4Pole 415V/16A MCB C Curve
 - 0-415V / 10 Variable Supply
- **Variable Voltage / Current Injector – 2 No's**
 - 2Pole 230V/6A MCB C Curve
 - Dimmerstat Input Voltage 230V AC, 50 Hz, Output Voltage 0-230V / 3A
 - Short Circuit Transformer Input Voltage 230V / 3A AC, Output Voltage 0-2/12A & 0-8V / 8A taps
 - DC Rectifier to convert Variable AC into Variable DC
 - 0-300V DC Voltmeter & 0-5A/2A DC Ammeter
- **Series Lamp Test Circuit (230V AC)**
 - 2Pole 230V/6A MCB C Curve
 - One Lamp Holder
- **Push Switch**
 - 2 No's of Momentarily Contact Push Switches
 - Each with NO & NC Contacts
- **1Phase Power Socket and Switch**
 - 1 Phase 16A Socket – 4No's
 - 1 Way, 2 Terminal Surface Mount Switch – 4No's.
- **3 Phase Power Socket**
 - Industrial 5 Pin Socket for Power Distribution
 - R, Y, B, N & E terminals
- **3 Phase CT**
 - 3 No's of 5/5A CT provided.
 - Primary & Secondary Windings are terminated at 4mm shrouded sockets.
- **Lamp Load**
 - 3 Lamp Load with lamp holder socket with 230V /15/40/60/100W bulb.

