

# ELECTRICAL CALIBRATION TEST BENCH

Model: ETB 2008

## FEATURES

- \* Three Phase Mains Power Supply
- \* 230/110V AC Output Socket Panel
- \* Single Phase Variable AC Power Supply
- \* Three Phase Variable AC Power Supply
- \* Variable DC Power Supply
- \* Digital Multimeter
- \* Fixed DC Power Supply
- \* Continuity Tester
- \* Air set

## CONSTRUCTION OF TEST BENCH

### **Work table:**

Manufactured with 40mm Square Mild Steel Square tube with suitable bench top made up of 25mm thick chip Board.

### **Under bench cabinet:**

Storage space with lockable drawers for keeping necessary stationary items/tools and tackles, etc.

### **Bench-top unit (Panel):**

This panel is constructed with 19mm thick chip board with aluminium frames to fix the front plates. The front plates are made up of 2/3mm high quality aluminium sheets duly anodized with suitable cut-outs corresponding to the instruments to be fixed on it. The instruments are duly mounted in the panel with good fixtures and for easy operations. This electrical wiring is done as per the standard practice by using quality wires, crimping legs and proper ferruling for troubleshooting in the future.

### **Panel consists of**

1. Three Phase Mains Power Supply
2. 230/110V AC Output Socket Panel
3. Single Phase Variable AC Power Supply
4. Three Phase Variable AC Power Supply
5. Variable DC Power Supply
6. Digital Multimeter
7. Fixed DC Power Supply
8. Continuity Tester
9. Air set

### **1. Three Phase Mains Power Supply**

- \* 415 VAC, 50Hz Three phase main power supply
- \* For protection of built-in modules/cassettes etc.
- \* Earth leakage circuit breaker (For Operators safety)
- \* Rated fault current : 30mA
- \* Rated Current : 63A
- \* No. of poles : 2
- \* Unregulated 415V AC Output, Current Rating: 15A, Output through Industrial Sockets



### **2. 230V / 110V AC Socket Panel**

- \* Miniature Circuit Breaker
- \* Unregulated 230V AC output, Current Rating: 15/5A, Output through Standard Indian make Sockets - 2 nos.
- \* Individual ON/OFF Switch for Output sockets.
- \* Unregulated 110VAC Output, Current Rating: 2A, Output through Standard Indian make Sockets - 2 nos., Individual ON/OFF Switch for Output sockets.

### **3. Single Phase Variable AC Power Supply**

- \* Miniature Circuit Breaker
- \* Digital / Analog Voltmeter & Ammeter
- \* Auto Transformer of Rating 0 to 270V AC, Current: 5A
- \* Output through Standard Indian make Sockets

### **4. Three Phase Variable AC Power Supply**

- \* Miniature Circuit Breaker
- \* Phase Selector Switch
- \* Digital / Analog Voltmeter
- \* Motorized Auto Transformer of Rating 0 to 440V AC, Current: 5A
- \* Switch to Increase/Decrease the motorized Auto Transformer
- \* Output through Standard Indian make Sockets

### **5. Variable DC Power Supply**

- \* Miniature Circuit Breaker
- \* Variable DC Power Supply Voltage Range: 0 to 32V DC, Current: 5A
- \* Digital Voltmeter / Ammeter Line Regulation of 0.1% plus 10mV change in the input line supply
- \* Load Regulation of 0.1% plus 10mV for load variation from No-Load to Full Load

### **6. Digital Multimeter (5 ½ Digits)**

- \* Display: 5 ½ digit dual display.
- \* Accuracy: 0.0015% basic DC V / 0.06% basis AC V or better
- \* Measure up to 1000V
- \* Bandwidth: 10Hz to 200KHz AC or better
- \* Direct dB and dBm measurement.

- \* Minimum / Maximum / Average read outs.
- \* Continuity & diode test facilities.
- \* Standard RS 232 interface.

### 7. Fixed DC Power Supply

- \* Miniature Circuit Breaker
- \* Range : +24V DC, Current Rating 5A
- \* Output: Through Banana Sockets.

### 8. Continuity Tester

- \* Facility to check the continuity through Audio / Visual Indication

### 9. Air set

The Air set module consists of

- \* 1 No. of Pressure Gauges (63mm Dial Size) of range 0 to 10 Bar with accuracy of 1.6% F.S
- \* Air Regulator to regulate the pressure output from 0.3 bar to 10 bar
- \* 1 no. of output Port
- \* With facility to connect Instrument air (which is available at the plant) to the test bench

### Accessories

- \* Necessary Test Leads to connect the output of the Power supplies, Digital Multimeters, etc.,
- \* Basic Tools required for the Instruments to operate.

### Optional

- \* Function Generator
- \* IC Tester
- \* LCR Meter
- \* Oscilloscope
- \* Decade Resistance Box
- \* Soldering / De Soldering Stations
- \* Continuity Tester
- \* Anti-Static / ESD Facility
- \* Calibration Management Software System
- \* Integrated Calibration Software
- \* Space for Computer Systems (CPU, Monitor, Keyboard, Mouse & Printer)
- \* Mobile / Stationery Under bench Cabinets

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**Note:** For special custom built Test Benches, please contact us.



## R&D Instrument Services

NABL Accredited Calibration Laboratory  
(Specialist in Calibration Instruments)

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