

## Physics Lab Equipments & Experimental Setups

### ME 830 - Inductance Measurement (Using Impedance at Different Frequencies)

#### Objective:

- Inductance Measurement is designed to measure the Self Inductance of Coil Impedance at different frequencies.



#### Technical Specifications:

- Output voltages :
- Housed in PVC cabinet, circuit diagram printed, Band Switches, Resistance, Inductance & all important output brought out at Aluminum front panel.
- Power Requirement : 220 VAC  $\pm$ 10%, 50Hz

#### Standard Accessories:

- Power Cords, Patch Cords, Instruction Manual.

### ME 842 - To determine a High Resistance by the Method of leakage of a Capacitor.



#### Setup Consist of:

- Ballistic galvanometer with lamp and scale arrangement
- Capacitor : 0.47 Microfarad Approx.
- High resistance : 20 Mega ohm Approx.
- Battery Eliminator : 2-12V DC/2 Amps
- Morse key, Typing key, Two way key & One way key

#### Standard Accessories:

- Power Cords, Patch Cords, Instruction Manual.

### ME 843 - Thermo Electric E.M.F. with Temperature for a Copper Iron Thermocouple by means of a Potentiometer (Complete Setup)

#### Objective:

- To draw the calibration curve of the thermocouple, using potentiometer arrangement and hence to determine the thermo electric power of the thermo couple at a certain temperature.



#### Setup comprises of:

- Thermocouple : Copper constrain (with stand)
- Potentiometer : 10 wire Potentiometer
- Electronic standard cell : 1.018V DC
- Resistance box : 0 to 5000 ohm
- Digital Ammeter : 100microA DC
- Thermometer : -10 to 110 Degree C - 2 Nos.
- Water heater (Emulsion rod)
- Beakers : 500ml & 250ml (1 Each)
- DC connecting wire : 2 Meters

*Note: no one way key required because supply has on/off switch*