GUPTA AGENCIES™

AN ISO 9001:2008 CO.

A Complete House of
Scientific & Laboratory Equipments

ELECTRONIC INSTRUMENTS

Address: Gupta Agencies 5341 Punjabi Mohalla Ambala Cantt – 133001 (Haryana INDIA)
Mobile No: +91-9896301766, +91-9896311766, +91-9416021766
Email Address: info@guptaagenciesindia.com, info@labfabricatorsindia.com | **Website:** www.guptaagenciesindia.com

Microprocessor & Micro Controller Lab

8031/8051 Micro Controller Training Kit With Inbuilt Power Supply (200611)

8085 Microprocessor Training Kit With Inbuilt Power Supply (200612)

8086 Microprocessor Training Kit With Inbuilt Power Supply. (200613)

Interfacing Cards

ADC-0809 Interface (200614)

Dual DAC Interface (200615)

Logic Controller Interface (200616)

Elevator Simulator I-face (200617)

IC Tester Interface (200618)

Display Interface (200619)

Stepper Motor Interface (200620)

Stepper Motor 0.25 Kg-cm Torque (200621)

Power Supply For Stepper Motor of 0.25 Kg Cm Torque (200622)

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Interfacing Cards

- Keyboard Interface (200623)
- LCD Display Interface (200624)
- Traffic Light Controller Card (200625)
- Temperature Measurement card With Thermocouple (200626)
- Dc Motor Controller Card With Motor & Power Supply (200627)
- Relay & OPTD Coupler Card (200628)
- LED Display Matrix Card (200629)
- Thumb Wheel Switch Card (200630)

Study cards

- Study Cards 8212 Memory Decoder Card. (200635)
- 8251/8253 Study Card (200636)
- 8255 PPI Study Card (200637)
- 8257 DMA Study Card (200638)
- 8259 PIC Study Card (200639)
- 8279 Keyboard Display Controller Supply Card (200640)
- 8155 PPI With Timer Card (200641)
- 6264 RAM Study Card (200642)
- 373 Latch Study Card (200643)
- 50Pin FRC Cable To Connect The Kit & Each Study Card (not Provided With Cards Order Separately) (200644)

Electrical bridges

Anderson Bridge (200651)

200651 A Anderson Bridge (with Head Phone & Bridge Oscillator)
200651 B Anderson Bridge (with Bridge Oscillator & Null Detector)
Optional Acc:
1. Fixed Frequency Sine Wave Oscillator 1kHz
2. Unknown Decade Inductance Box
3. Two Dials of 0.01&0.1 uF
4. Sensitive Head Phone/Null Detector

Schering Bridge For Capacity Measurement (200652)

200652 A Schering Bridge With Head Phone & Bridge Oscillator
200652 B Schering Bridge With Bridge Oscillator & Null Detector
Optional Acc:
1. Fixed Frequency Sine Wave Oscillator 1kHz
2. Decade Capacitance Box
3. Sensitive Head Phone/Null Detector

Schering Bridge For Capacity Measurement

Industrial Kelvin Double Bridge To Measure Small Values Resistance of 0.2 Micro Ohm To 11ohm (200653)

Optional Acc:
1. DC Source 0-12VDC/10A
2. Galvanometer 30-0-30 Division Sensitivity of 2µA/Division
3. Conductivity Attachment
4. Connecting Leads (current carrying capacity 10Amps)

Kelvin Bridge(Student) (200654)

200654 A Kelvin Bridge (student) With Dc Source 5 Amp. Dcc Wire , Galvanometer , 4 Terminal Resistance
Optional Acc:
1. DC Source 0-12 VDC/10A
2. Galvanometer 30-0-30 Division Sensitivity of 2µA/Division
3. Conductivity Attachment
4. Connecting Leads (current carrying capacity 10Amps)

Maxwell Inductance Bridge (200655)

200655 A Maxwell Inductance Bridge With Head Phone & Bridge Oscillator
200655 B Maxwell Inductance Bridge With Bridge Oscillator & Null Detector
Optional Accessories :
1) Fixed Frequency Sine Wave Oscillator
2) Sensitive Head Phone /Null Detector
3) Single Dial of 0.1mH
4) Air Core Inductance in Wooden Box Any value from 0.1mH to 100mH

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Electrical bridges

Weins Bridge (Capacity Measurement) (200656)

200656 A Weins Capacitance Bridge With Head Phone & Bridge Oscillator
200656 B Weins Capacitance Bridge With Bridge Oscillator & Null Detector
Optional Accessories :
1) Fixed Frequency Sine Wave Oscillator
2) Sensitive Head Phone /Null Detector
3) Two Dials of 0.01 & 0.1µF

Weins Bridge (Frequency Measurement) (200657)

200657 A Weins Bridge (frequency Measurement) With Head Phone & Bridge Oscillator
200657 B Weins Bridge (frequency Measurement) With Bridge Oscillator & Null Detector
Optional Acc.
1) 1Hz to 200KHz Function Generator
2) Sensitive Head phone/Null Detector
3) Two Dials of 0.01 & 0.1µF

Wheatstone Bridge (Portable) (200658)

Optional Accessories :'Metal Film Resistance of 0.5 Watt in wooden/Bakelite Box

Desauty Bridge (200659)

200659 A Desauty Bridge With Head Phone & Bridge Oscillator
200659 B Desauty Bridge With Bridge Oscillator & Null Detector
Optional Acc.
1) Fixed Frequency Sine Wave Oscillator
2) Sensitive Head phone/Null Detector
3) Two Dials of 0.01 & 0.1µF

Carry Foster Slide Wire Bridge (200660)

200660 A Carry Foster Slide Wire Bridge Galvo, 2v/100 Ma Dc Supply , Unknown Resistance
200660 B Callender & Griffin's Bridge Without Accessories
200660 C Callender & Griffin's Bridge with Platinum Resistance Thermometer, Galvo,2v/100 Ma Dc Supply , Hot Plate & Steam Boiler
200660 D Crompton Potentiometer Bridge Without Accessories
200660 E Crompton Potentiometer Bridge (galvo , 2v/100 Ma , Dc Supply , Voltmeter, Power Supply, 4 Terminal Resistance
Optional Acc.
1) Galvanometer 30-0-30 Division Sensitivity of 2µA/Division
2) Battery Eliminator 2-12 VDC/3 Amps
3) Tapping key

Religh Bridge (200661)

200661 A RELIGH BRIDGE BALLASTIC GALVANOMETER, FIXED POWER SUPPLY 2VDC UNKNOWN RESISTANCE**Optional Acc.**
1) Galvanometer 30-0-30 Division Sensitivity of 2µA/Division
2) Two Dials of 0.1mH & 1mH or Two Dials of 1mH & 10mH or Two

Electrical bridges

Owen Bridge (200662)

200662 A Owen Bridge with Head Phone & Bridge Oscillator
200662 B Owen Bridge with Bridge Oscillator & Null Detector
Optional Acc.
1) Fixed Sine wave oscillator.
2) Sensitive Head Phone/Null Detector
3) Two Dials of 0.1mH & 1mH or Two Dials of 1mH & 10mH

Hay Bridge (200663)

200663 A Hay Bridge with Head Phone & Bridge Oscillator
200663 B Hay Bridge with Bridge Oscillator & Null Detector
Optional Acc.
1) Fixed Sine wave oscillator.
2) Sensitive Head Phone/Null Detector
3) Two Dials of 0.1mH & 1mH or Two Dials of 1mH & 10mH

Hay Bridges

LCR / AC Bridge (200664)

Technical Specifications:
Inductance Measurements :

Min :	0.2 microH
Max :	110 H or more
Ranges :	8
Accuracy :	+ 1% for greater 'Q' coils

CapacitanceMeasurements :

Min :	1 pF
Max :	1110 micro Farad or more
Ranges :	8
Accuracy :	+ 1%

Resistance Measurements:

Min :	100 milli Ohms
Max :	10 Megohms
Ranges :	8
Accuracy :	+ 1%
Display :	Numeric 3.5 digits
D/QFactor :	Available for Fine adjustment Q: 0-30 D : 0 to 3
Excitation :	Internal 1KHz + 10% sine wave and DCPower Supply : 220V +/- 10% 50Hz.

Null Detector Digital (200665)

The null detector comprises of a solid state amplifier having output stage with meter indication. The said detector has been designed for use with AC bridges replacement of head phone.

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Microwave Lab Experiment Training Module

Experiments of Reflex Klystron (200671)

Experiments :

- To study the characteristics of Reflex Klystron
- To study frequency, guide wavelength & free space wave length
- To measure the SWR & Reflecton Coefficient.
- To Measure Impedence of a load.

Experiments Of Reflex Klystron

Experiments on Gunn Diode (200672)

Experiments :

- To study the characteristics of Gunn diode.
- To study the frequency, guide wavelength & free space wavelength
- To measure the SWR and reflection coefficient.
- To measure impedence of a load.

Experiments To Measure The Polar Pattern & Gain Characteristics of The Antena. (200673)

Experiments :

- Pyramidal Horn
- Pick Up Horn
- Slotted W/G Horn
- Dielectric Horn
- Sectorial Horns
- Parabolic Dish

Experiment to Measure Dielectric Constant of Solids & Liquid and to measure Phase Shift & 'Q' of a cavity. (200674)

Experiments :

- To Measure dielectric constant of Solids.
- To Measure dielectric constant of Liquids.
- To Measure Phase Shift
- To Measure 'Q' of a cavity

Study of Microwave Components (Magic T, Directional Coupler, Isolater, Circulator) (200675)

Experiments :

- To Study Magic Tee, Directional Couplers, Isolators & Circulators.
- To Study the characteristics of detector diode
- To study Attenuation measurement.
- To study the return loss measurement.

Microwave Lab Experiment Training Module

VSWR Meter (200676)

Power Meter 8.2 GHz.~ 12GHz (200677)

Power Meter 10 MHz.~ 18GHz (200678)

Network Theorem Training Boards

Verification of Network Theorem (200701)

Objective : To verify Superposition, Norton's, Thevinin's & Maximum Power Transfer Theorems.
Features : Instrument comprises of 2 fixed output DC Regulated Power Supplies of 12 V & 5V at 250 mA current, 4 moving coil meters, Circuit diagram for all the 4 theorems Printed on the front panel .

Verification of Superposition Theorem. (200702)

Features : Instrument comprises of Two Fixed output DC Regulated Power Supplies of 12V & 5V at 250 mA current. Three moving coil meters, circuit diagram Printed on the front panel.

Verification of Norton's Theorem. (200703)

Features : Instrument comprises of One Fixed output DC Regulated Power Supply of 12V at 250 mA current. Two moving coil meters, circuit diagram Printed on the front panel.

Verification of Norton's theorem.

Verification of Thevinin's Theorem. (200704)

Features : Instrument comprises of One Fixed Output DC Regulated Power Supply of 12 V at 250mA current, Two moving coil meters, Circuit Printed on the front panel.

Verification of thevinin theorem.

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Network Theorem Training Boards

Verification of Tellegan's Theorem. (200705)

Features : Instrument comprises of one fixed Output DC Regulated power supply of 12V. Two moving coil meters, circuit diagram printed on the front panel.

Verification of Maximum Power Transfer Theorem (200706)

Features : Instrument comprises of One Fixed outuput DC Regulated Power Supply of 12V at 250mA current, Two moving coil meters, Circuit Printed on the front panel.

Verification of maximum power transfer theorem

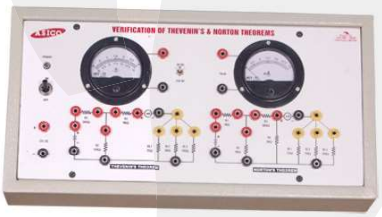
Verification of Milliman's Theorem. (200707)

Features : Instrument comprises of three fixed Output DC Regulated power supply of 12V, 15V, 18V. Two moving coil meters, circuit diagram printed on the front panel.

Verification of Reciprocity Theorem. (200708)

Features : Instrument comprises of one Fixed Output DC Regulated Power Supply of12 V at 250mA current, two moving coil meters, Circuit Printed on the Front panel.

Verification of Norton's & Thevinin's Theorems. (200709)



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