TECHNO SCIENCE INSTRUMENTS

Regd. Office: 951, 1st B Main Road, Nagarahhavi
2nd stage, 9th Block, Bangalore - 560 072

MFG Unit: 101, Lakshmanappa Tota,
Kasaghattapura, Silvepura Post,
Bangaiore - 560 090

Phone: 9743739168 **E-mail:** technoscience.india@yahoo.com

Web: www.technoscience.in

TECHNO SCIENCE INSTRUMENTS

INNOVATIVE SOLUTIONS
FOR A BETTER TOMORROW

PCMB INSTRUMENTS

PHYSICS CHEMISTRY BIOLOGY MATHEMATICS

MATHEMATICS MODELS

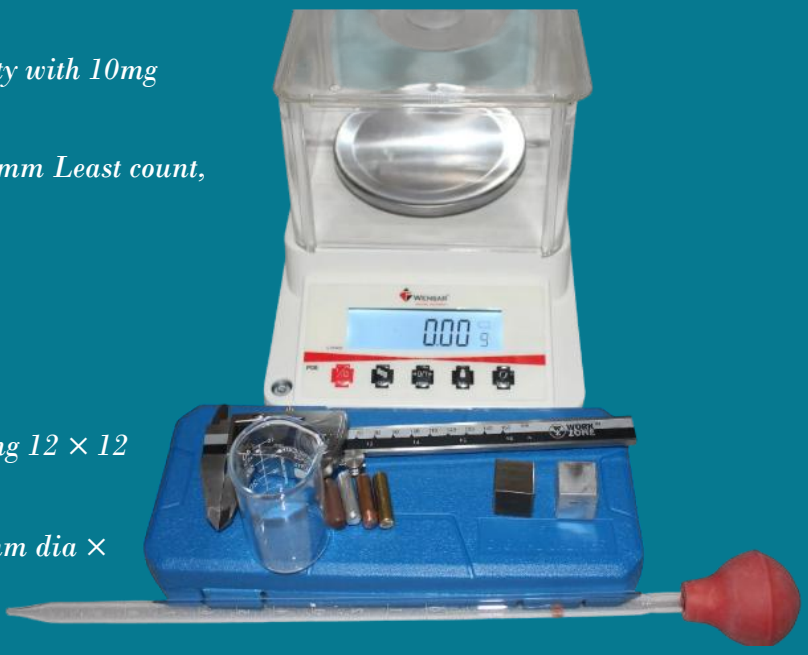
QUALITY PRODUCTS · INNOVATIVE SOLUTIONS · RELIABLE PERFORMANCE · CUSTOMER SATISFACTION

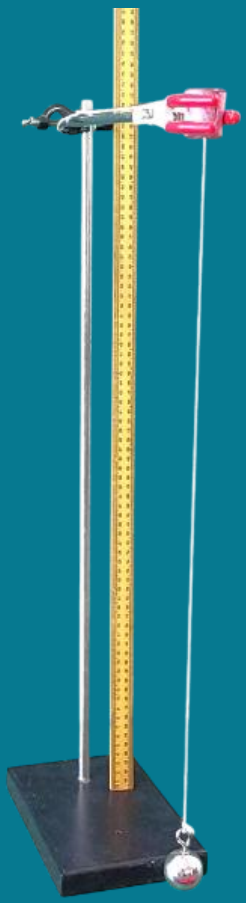
PRODUCT CATALOGUE

2026-2027

1. Determination of Density of Solids and Liquids

- *Digital weighing balance 300g capacity with 10mg resolution, battery backup, with shield*
- *Digital Vernier calliper SS type, 0.01mm Least count, 150mm length*
- *Pipette 10ml with rubber squeezer*
- *Cotton thread one roll*
- *50 ml glass beaker*
- *Al, Cu, Fe, Brass metal cuboids having 12 × 12 × 30mm dimensions*
- *Al, Cu, Fe, Brass Metal cylinder 10mm dia × 30mm length*
- *Sphere 15mm dia*

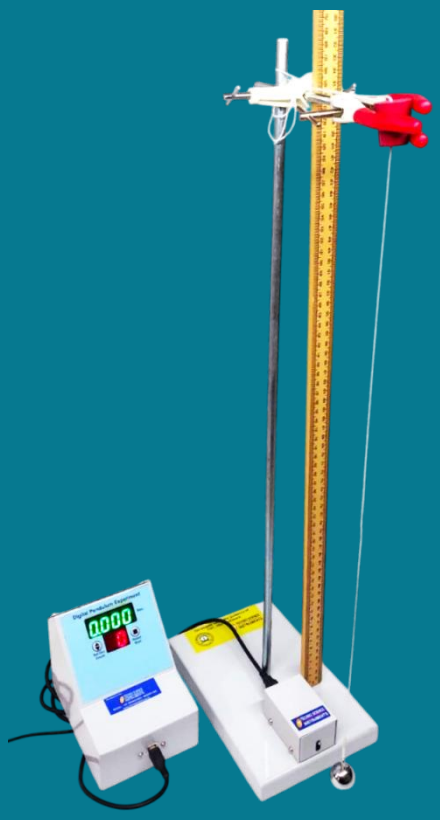




2. Determination of acceleration due to gravity 'G' (manual method)

- *Metallic bob with hook (2 Nos),*
- *Metal clamp stand 75cm height*
- *Split halves of a cork with plane faces*
- *Fine cotton thread roll*
- *Digital stopwatch with 0.01s resolution*
- *Wooden 1 meter scale.*

3. Determination of acceleration due to gravity 'G' (Digital method)



- Metallic bob with hook (2 Nos),
- Metal clamp stand 75cm height
- Slotted cork with plane faces
- Fine cotton thread
- Digital oscillation counter with timer 0.01s resolution
- Wooden 1 meter scale.

4. Verification of Law of conservation of energy

- Height adjustable metal plane 50cm length with pvc slide
- Solid SS sphere 16 mm diameter
- Adjustable height 0-6 cm pvc slide
- IR sensors and digital Timer 0 – 9999.9 sec with 100µs resolution

5. Study of Projectile motion

- Adjustable height metal stand
- Adjustable angle 0-90°
- Spring loaded launcher
- Measuring tape (metal).
- Solid SS sphere 16 mm diameter

6. Determination of velocity of sound – Resonance column

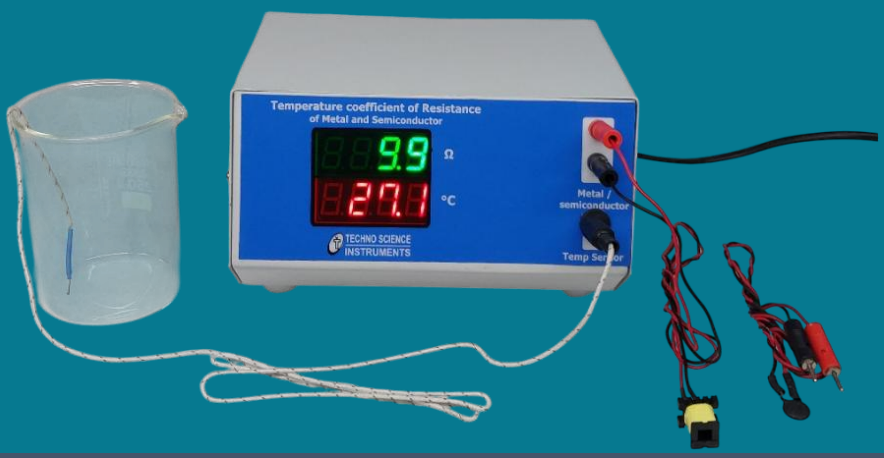
- Metal stand with 75cm height
- 60mm and 30mm length of open-ended brass pipes with graduation
- Two aluminium tuning forks (480Hz & 512Hz)
- Rubber pad
- Tall 1 litre PVC measuring cylinder

7. Study of Heat Transfer and determination of flame temperature

- Digital Thermometer 0-1000°C with 0.1 °C resolution
- K-Type thermocouple sensor
- Cu, Al, Brass and Fe metal rods of 8mm dia and 15cm length
- Spirit lamp glass type

8. Study of Temperature dependence of resistance of metal and semiconductor

- Integrated electronic instrument to measure resistance and temperature
- Resistance Range: 0-200Ω with 0.1Ω resolution
- K-Type thermocouple sensor
- Temperature Range: 0-300°C with 0.1°C resolution
- Copper coil 10Ω
- Thermistor 10Ω
- 250 ml beaker
- Glass stirrer 6 inch



9. Study of Magnetic moments using null deflection equal distance methods

- *1 meter length Magnetometer board with 4-inch magnetic compass.*
- *Bar magnets 2 Nos.*

10. Study of Newton's Law of cooling

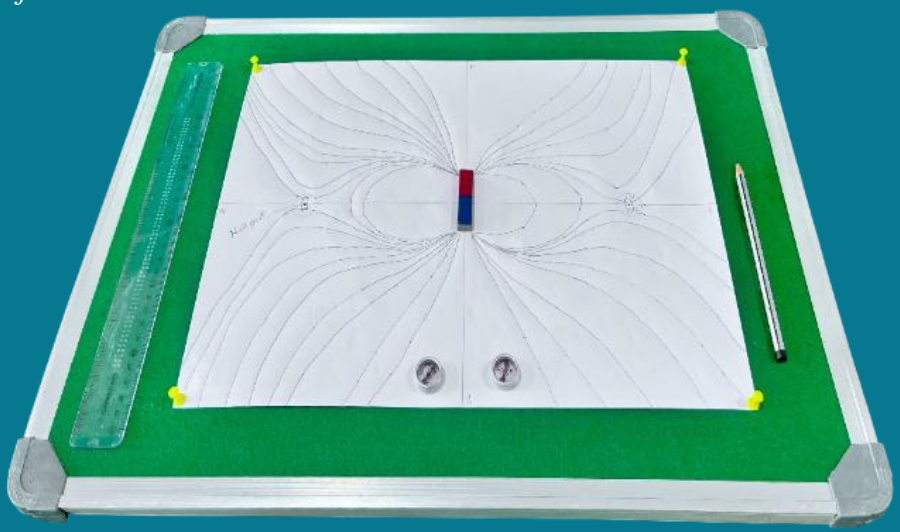
- *Digital Thermometer 0-300°C with 0.1 °C resolution*
- *K-Type thermocouple sensor*
- *Digital Timer 0.1 sec resolution*
- *250 ml beaker*
- *Glass stirrer 6 inch*

11. Verification of Newton's Law equations

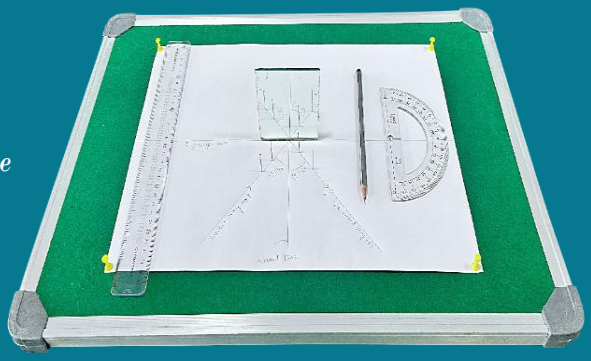
- Adjustable angle inclined plane 0 to 35°
- Digital timer 0-9999.9s with100μs resolution
- Inclined plane with two IR sensors mounted (one adjustable position)
- Digital inclinometer to measure angle from 0-40° (0.1° reading)
- SS sphere 16mm dia,
- 50cm PVC slide cm scale for distance measurement

12. Mapping of magnetic lines of force

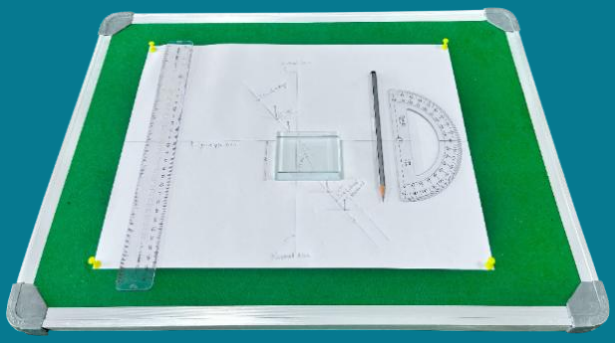
- Bar magnets 2 nos.
- 20mm dia magnetic compass 2 nos.
- Drawing board 1 × 2 feet size

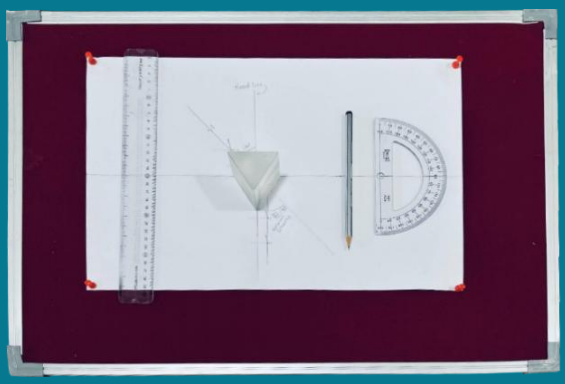


13. Verification of Laws of Reflection, Laws of Refraction and Determination of Refractive index of prism

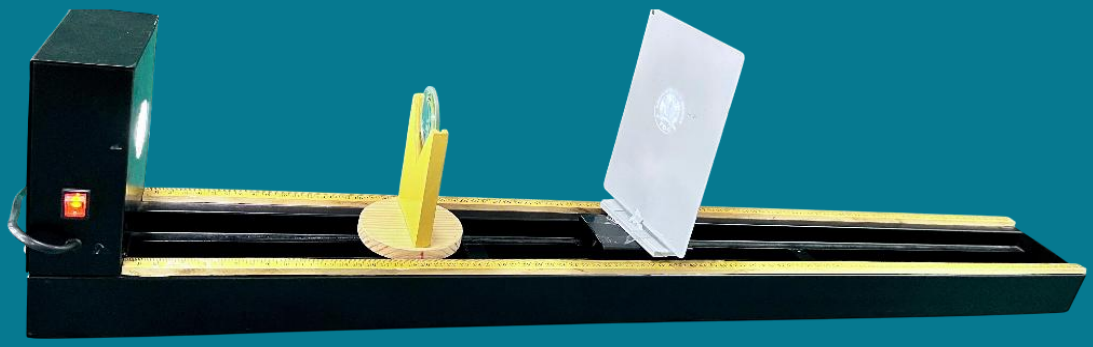


- Plane mirror 100x100mm size
- Glass slab flint white glass 77 × 50 × 20mm size
- EDF prism 32 × 32mm size
- PVC protractor
- 30cm PVC ruler
- Drawing board 1 × 2 feet size
- Pin box





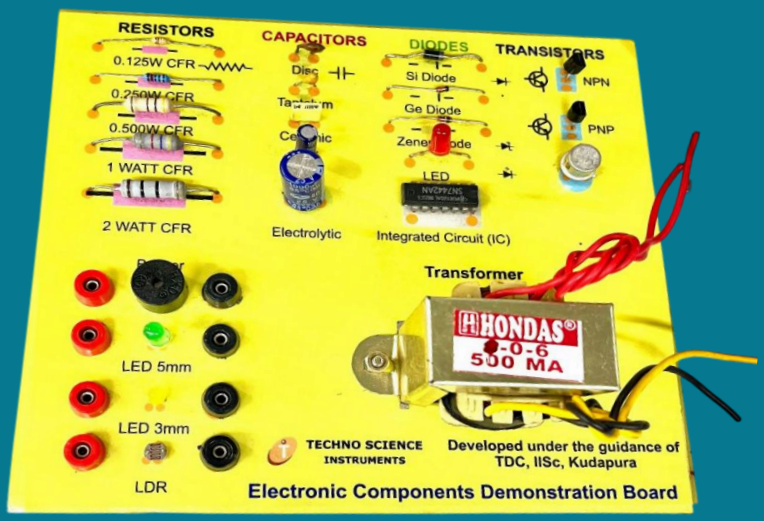
14. Determination of focal length of lens and mirror



- Optical bench 1m length metal type with wooden scale on either side
- Bright LED light source
- Adjustable position Lens holder and image screen
- Convex lens 2 Nos, Concave lens 2 Nos, Convex mirror 2 Nos, Concave mirror 2 Nos

  (all having 10cm focal length)

15. Electronics Components Demonstration board



- *Printed Circuit Board (PCB) with soldered components (Transistor, Diode, LED, Resistor, Capacitor, Transformer)*
- *Patch Cords*

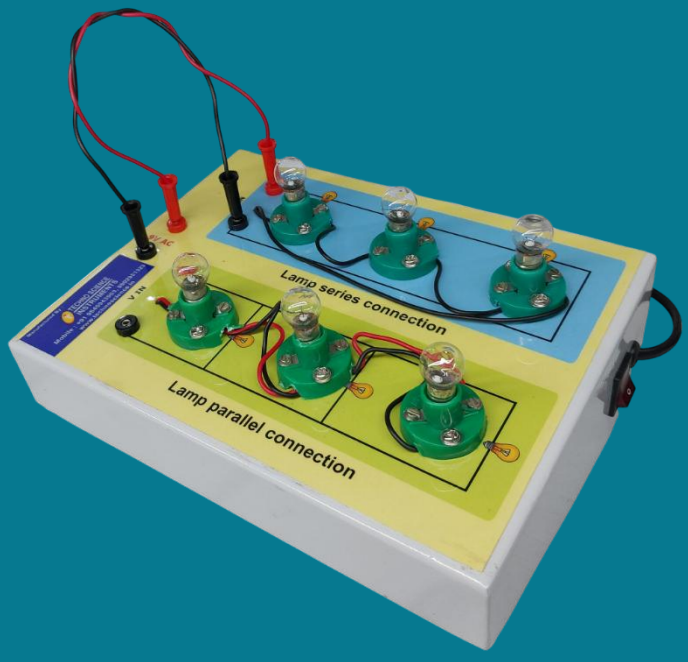
16. Verification of Ohm's Law

- *Easy to connect socket board to insert resistors*
- *10 turn potentiometers to adjust applied voltage*
- *DC power supply 0-10V*
- *Digital Voltmeter 0-10V with 0.01V resolution*
- *Digital Ammeter 0-100mA with 0.1mA resolution*
- *Spare resistors of different values.*

17. Ohm's law and combination of resistors in series and parallel ckt (2 in 1 experiment kit)

- Inbuilt 0-15V DC power supply
- Digital voltmeter: 0-20V/0.01V
- Digital Ammeter: 0-200mA/0.1mA/1μA
- Resistor: 1k Ω, 330 Ω, 560 Ω (½ Watt).
- Series and parallel circuit arrangement.
- AC230V operated system

18. Understanding series and parallel circuits using Bulbs



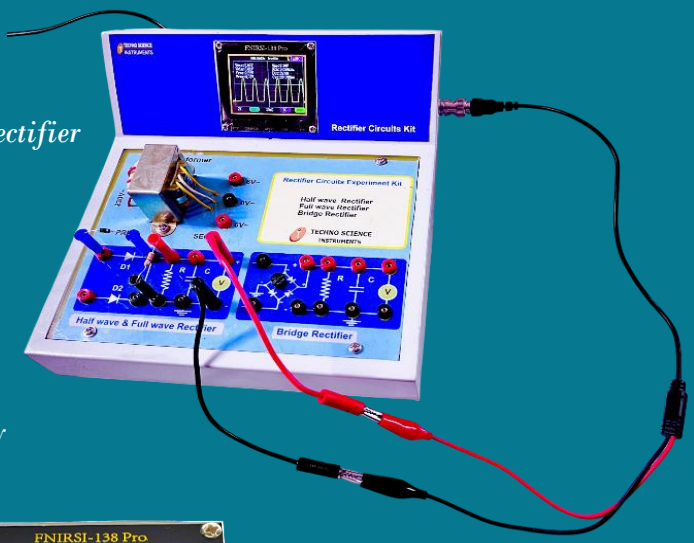
- Bulb board
- 6 V bulb 10 numbers
- 6V AC power supply
- Patch card 1 pair

19. Study of Forward and Reverse bias characteristics of diode, Zener diode and LED (3 in 1 experiment kit)

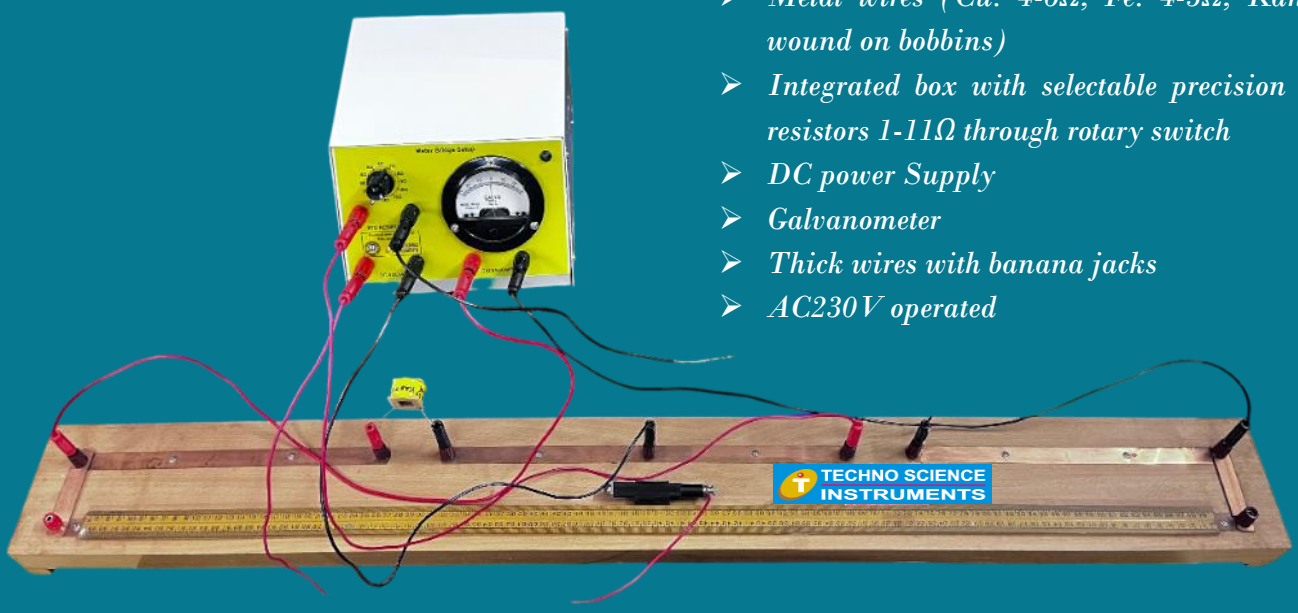
- Rectifier diode-1N4007
- Zener diode- 1N750
- Inbuilt 0-15V DC power supply
- Digital voltmeter: 0-20V/0.01V
- Digital Ammeter: 0-200mA/0.1mA/1μA
- LEDs: Red, yellow, green and blue colour
- Resistor: 1000 Ω (¼ Watt)

20. Study of Half wave, Full wave and Bridge Rectifier circuits

- Inbuilt 6-0-6V ac power supply
- Connecting ports for half wave and full wave rectifier
- Rectifier diode: 1N4007, 2W10
- Resistor 1000 Ω (¼ Watt)
- Capacitor 1000uF
- patch cords,
- 1 channel mini digital oscilloscope 2.4" display



21. Determination of Resistivity of metal using Meter bridge



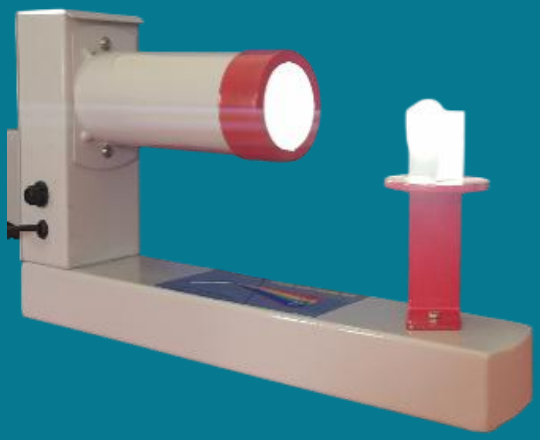
- Meter bridge board with copper strips 1m length with Jocky
- Metal wires (Cu: 4-6Ω, Fe: 4-5Ω, Kantal wound on bobbins)
- Integrated box with selectable precision 1Ω resistors 1-11Ω through rotary switch
- DC power Supply
- Galvanometer
- Thick wires with banana jacks
- AC230V operated

22. Diffraction spectrometer using CD grating with CFL lamp

- Integrated box with CFL lamp
- CD grating, slit and view port

23. Study of dispersion of light study Prism

- Rotatable prism table
- EDF Prism
- LED light source
- Image screen



24. Study of Electroplating

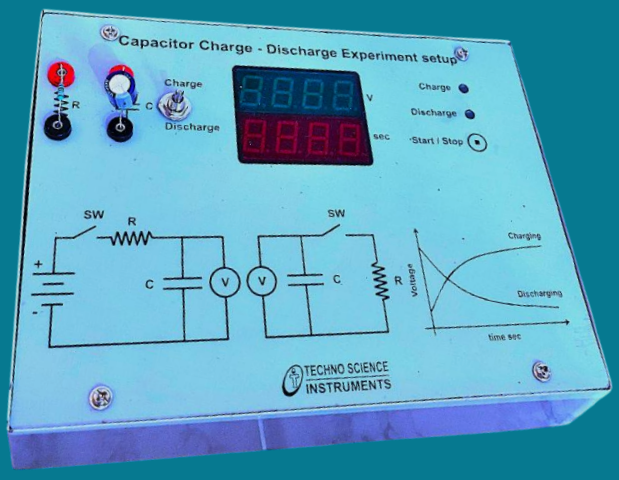
- Constant current source
- 250ml glass beaker
- SS and Cu strips
- copper sulphate 500g
- connecting wires with clips

25. Study of Electrolysis of water

- Acrylic tub
- measuring cylinders 25ml for collecting oxygen and hydrogen
- Constant current source
- Potassium hydroxide palette 500g

26. Study of Capacitor charging and discharging

- Instrument with connection for inserting resistor and capacitor
- Regulated dc power supply
- Timer control counter
- Digital voltmeter 0-5V with 10mV resolution
- Data freeze for 3 seconds to facilitate noting down the voltage & time value
- Electrolytic capacitor $1000\ \mu F, 25V$ and $100k\Omega$ resistor



27. Verification of Earth's magnetic field using Tangent Galvanometer

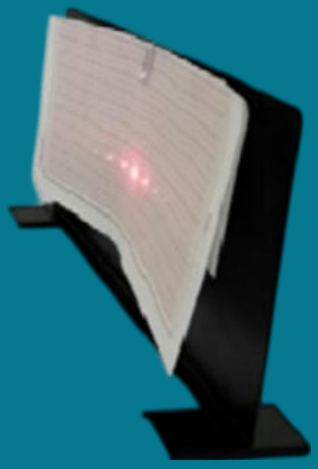
- Adjustable constant current source 0-200mA
- copper coil frame and coils of different number of turns
- 10 cm diameter magnetic compass

28. Determination of spring constant

- Two types of springs 10cm and 12cm
- Weight hanger with 50g × 5 weights
- Metal stand 70cm height with cm ruler sticker.

29. Determination of wavelength of light using diffraction grating

- *650 nm Laser light with power supply*
- *Height adjustable laser light stand*
- *Grating plate (100 lines/mm, 300 lines/mm, 600 lines/mm) with stand*
- *Metal screen*$(20 \times 15 \times 0.1\ cm)$
- *Meter scale (1 m wooden)*



30. Study of Photoelectric effect

- *Photoelectric measurement unit*
- *Photocell of work function of 1.5 eV*
- *12W white light source*
- *Colour filters (680nm, 580 nm, 520nm, 480nm, 435nm)*

31. Determination of Avogadro's number

- Constant current source 0-200mA
- Digital Timer 0-999 s with 0.1 sec
- Digital balance 200g/0.001g precision
- Glass beaker 250ml
- SS strip for electrodes
- Connecting wires

32. Verification of Boyle's Law

- Digital pressure meter 0-600 kPa with 0.1 kPa resolution
- PVC syringe 5ml with 0.2ml graduation
- Connecting silicone hose

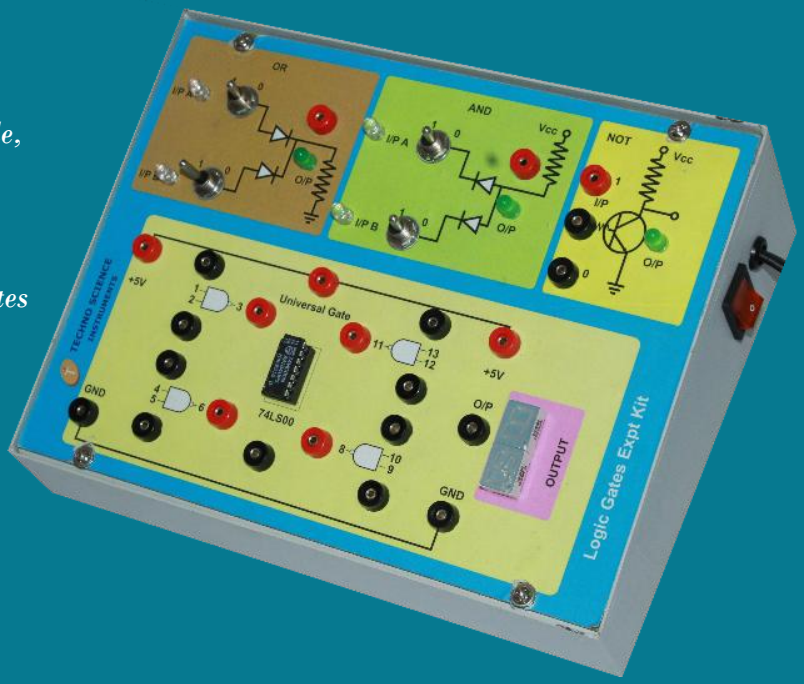
33. Verification of Gay Lussac's Law

- Digital pressure meter 15 - 115 kPa with 0.1 kPa resolution
- Digital Thermometer Pt-100 sensor 0-600°C with 0.1 °C resolution
- Connecting silicone hose
- 1 litter volume glass flask
- 15 litter tub

34. Study of NPN Transistor characteristics

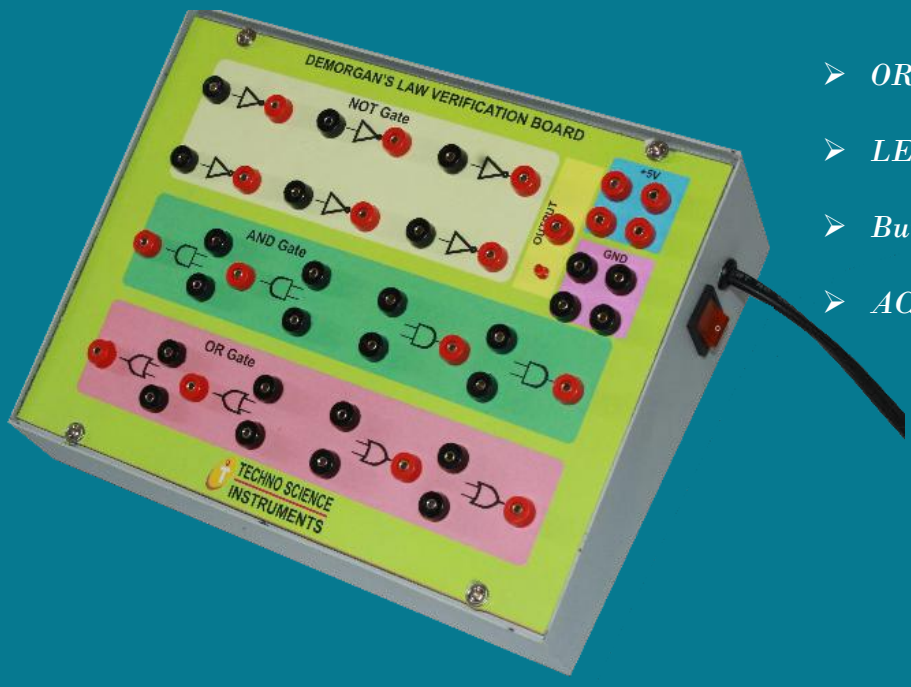
- BC547 / CL100 NPN transistor,
- two variable dc power supply (0-5V, and 0-20V)
- two dc ammeter (0-100μA; 0-100mA), digital voltmeter
- Circuit board with a base resistor of 50kΩ, a collector resistor of 1kΩ

35. Study of Logic Gates and Universal gate principle



- *Board with easy to wire gates using discrete components (diode, transistor and resistor)*
- *OR, AND, NOT, NOR and NAND gates. Quad NAND gates to build all logic gates including XOR gates*
- *LED indicator for output*
- *Built-in power supply*
- *AC230V operated*
- *Patch cards*

36. Verification of De Morgon's theorem



- *OR, AND, NOT gates.*
- *LED indicator for output*
- *Built-in power supply*
- *AC230V operated*

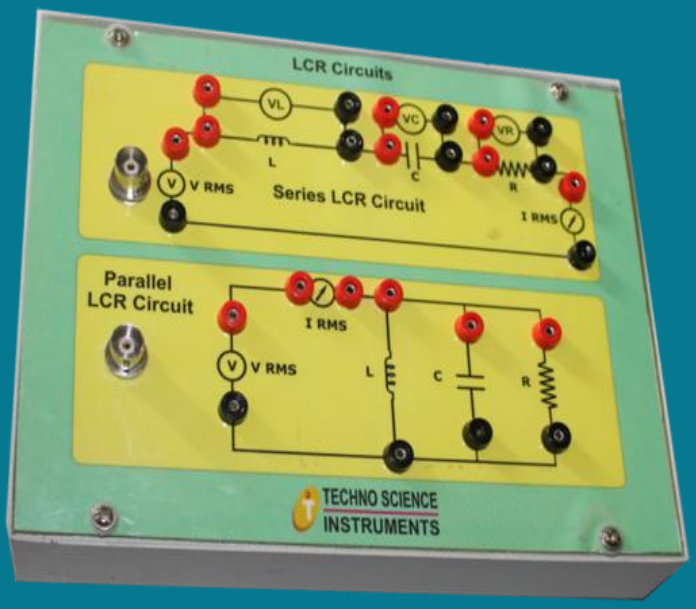
37. FET Characteristics experiment setup

- *BFW11 Field effect transistor*
- *two variable dc power supply (0-5V, and 0-20V)*
- *Digital ammeter (0-100mA)*
- *Digital voltmeter (0-20V)*
- *Circuit board with a gate resistor, a drain resistor*
- *AC230V operated*

38. Solar Cell Characteristics

- *6V- 5W Solar cell*
- *Circuit arrangement for measuring cell voltage and current*
- *Variable load resistor*
- *Two digital multimeters*

39. LCR series and parallel resonance circuit



- *Series LCR and parallel LCR circuit arrangement.*
- *BNC input connector for the function generator*
- *Inductor 100mH and Capacitor 10µF*
- *Resistor 1kΩ*
- *AC current measurement through digital multi-meter*

40. DC Regulated Power Supply

- *1.2 – 12 V fine adjustable Voltages*
- *Built-in digital voltmeter*
- *230V AC operated*

41. Digital DC Ammeter and Digital DC Voltmeter

- *Ammeter range 0 to 200mA*
- *Resolution 0.1mA*
- *230V AC operated*

- *Voltmeter range 0V to 20V*
- *Resolution 0.01 V*
- *230 V AC operated*

42. Digital multi-meter

- *3 ½ digit digital LCD Display*
- *Voltage – Current – Resistance function*
- *Both auto ranging and manual*
- *Supplied with probes*

43. LCR Digital multimeter

- *V 8222 H, Handheld Digital LCR Meter and Digital multimeter with 3½ Digits*
- *True RMS, Manual ranging, Backlight, Torch*
- *Auto Power Off, 1000/750 V DC/AC, 20A AC/DC, 200MΩ Res.,*
- *L - C - R, Temp., Freq. (Upto 20 MHz), Continuity, Diode & Tr. Test, D.H., Min./Max., W/H.*
- *Capacitance 20 nF to 2 mF - Auto Ranging, Inductance 2 mH to 20 H - in 2 Auto Ranges, Resistance 200 Ω to 200 M Ω*
- *With flashlight, Data hold, Low battery indicator, Auto power off functions*

44. DC Current Source

- *0-200mA continuously adjustable*
- *9V compliance output*
- *0.1mA resolution*
- *Digital Display*
- *AC230V operated*

45. Digital Timer Start – Stop type

- Time count: 0-9999.9 sec
- Resolution: 0.1ms
- Digital Display
- Start-Stop-Reset buttons
- Can be used as a stop clock timer

46. Digital Thermometer

- Digital Thermometers with both Pt100 and K-Type Thermocouple are available
  - Range: 0-600˚C (for Pt100); 0-900 ˚C (K-Type)
  - Resolution: 0.1 ˚C
  - LED display
  - Supplied with AC adopter

47. Measurement of atmospheric pressure using digital meter

- Digital pressure meter 200kPa range with 0.1kPa resolution
- silicone tube
- Power adaptor 5V 1A

48. Concurrent forces in equilibrium /parallelogram of force / Lami's theorem experiment (metal)

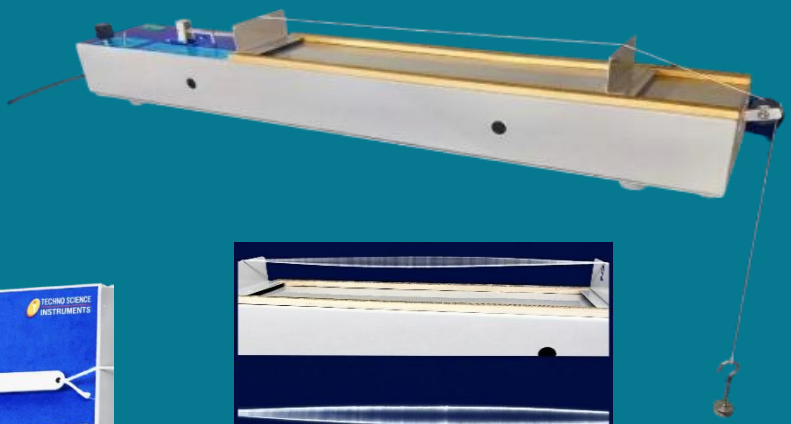
- Height adjustable metal stand
- Metal board with attached fixed free rotatable 2 ball Bering pulley
- Magnet provided for paper mount
- Slotted weight hanger 250 grms – 3 nos.
- 1 thread roll

49. Conservation of angular momentum using rotating stand and wheels explanation

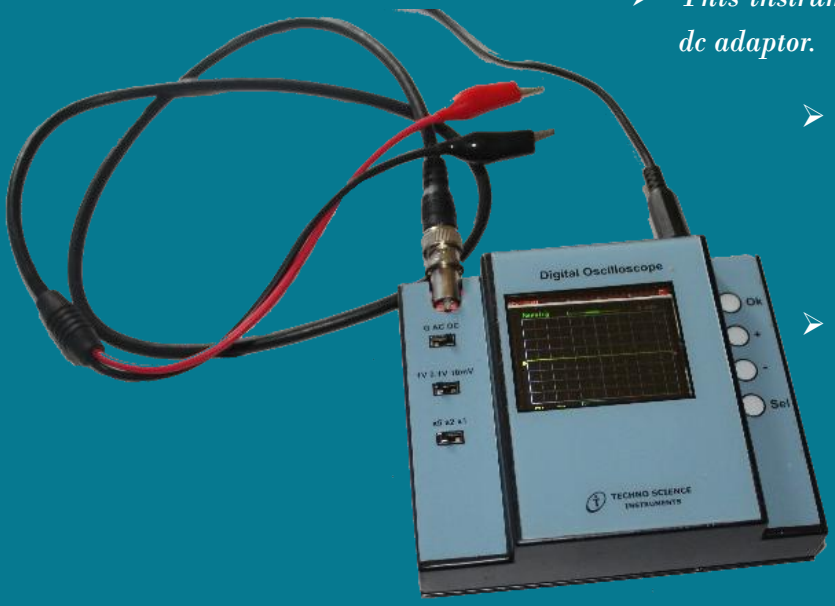
- Freely rotatable metallic base with Bering
- Freely rotatable wheel having both side holders

50. Sonometer – Digital frequency display

- Sonometer bench
- Digital frequency display
- Electric frequency generator
- Knife edges 2 numbers
- Slotted weight hangers with 10g X 5 (50g)
- Spare threads



51. Mini-Digital Oscilloscope



- *This instrument is very handy which operates on a 6V dc adaptor.*
- *Another important aspect of this oscilloscope is that the waveform can be locked and made still which helps for taking measurement with ease.*
- *The bandwidth of this oscilloscope is 10MHz and the voltage range is 10V*

52. Digital Spectroscopy

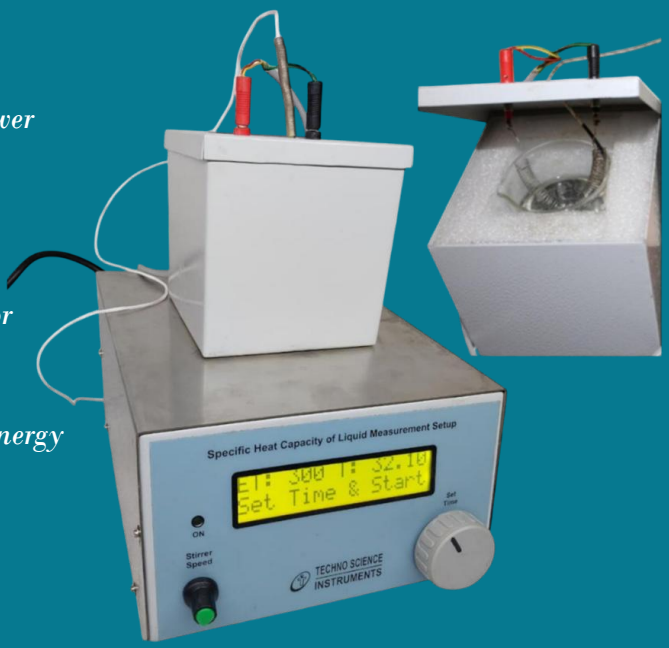
- *Constant deviation spectrometer*
- *Digital nano-meter display*
- *Hydrogen lamp with power supply*
- *12W LED white light bulb with support*

53. Specific heat of solids

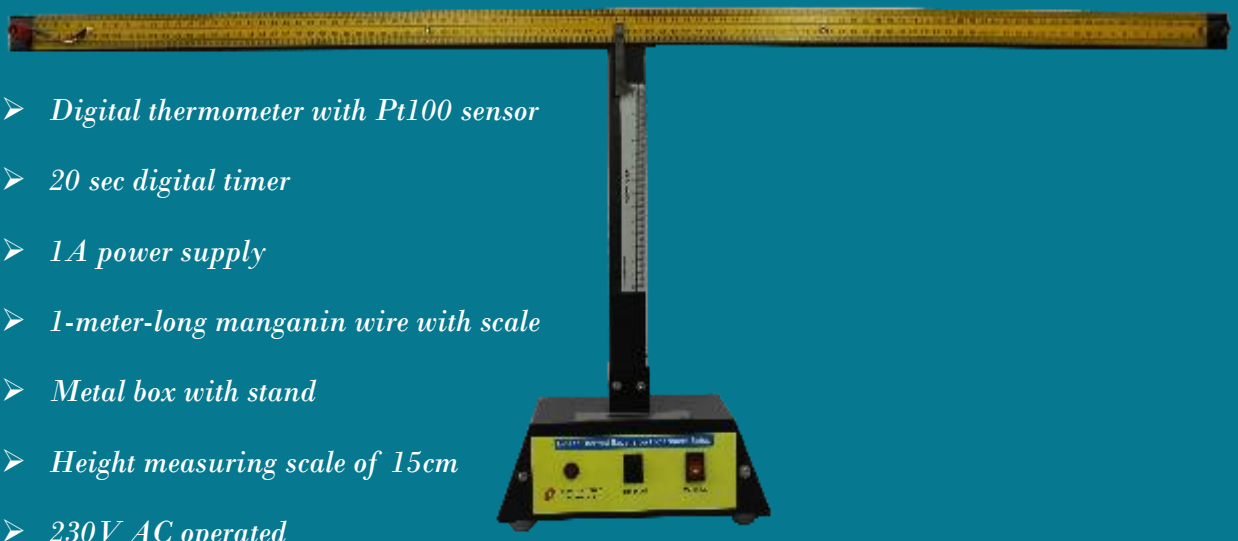
- *Rectangular blocks (Al, Cu, Fe, Brass, SS)*
- *(15 mm × 15mm × 30mm)*
- *50 ml beaker*
- *Water bath with digital display*

54. Specific heat of Liquids

- *Built-in 10W electric Heater with power supply*
- *Variable speed magnetic stirrer with magnet*
- *Digital thermometer with Pt100 sensor*
- *Digital timer (adjustable)*
- *2x16 LCD display to measure time, energy and temperature*
- *Directly displays delta T and E*
- *250ml glass beaker with thermally insulated box*
- *230V AC operated*



55. Linear thermal expansion of metal



- *Digital thermometer with Pt100 sensor*
- *20 sec digital timer*
- *1A power supply*
- *1-meter-long manganin wire with scale*
- *Metal box with stand*
- *Height measuring scale of 15cm*
- *230V AC operated*

56. Linear Volume expansion

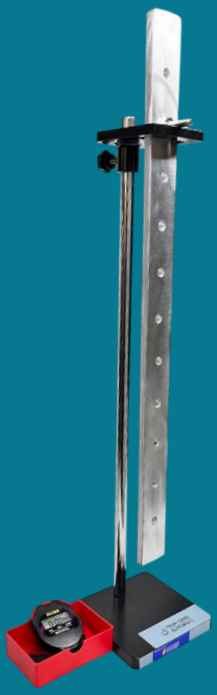
- *Digital thermometer with Pt100 sensor*
- *1 Liter Measuring Jar - 2 numbers*
- *Burette 10ml with 0.05ml graduation*

57. Center of mass exp set

- Digital weighing balance 600g capacity with 10mg resolution, Battery backup with shield
- 2 rods 30 cm/ 50cm length with option to vary centre of mass
- Water level for maintain horizontal position
- Two different heights stand with adjustable height for holding rods

58. Compound pendulum / Bar pendulum apparatus

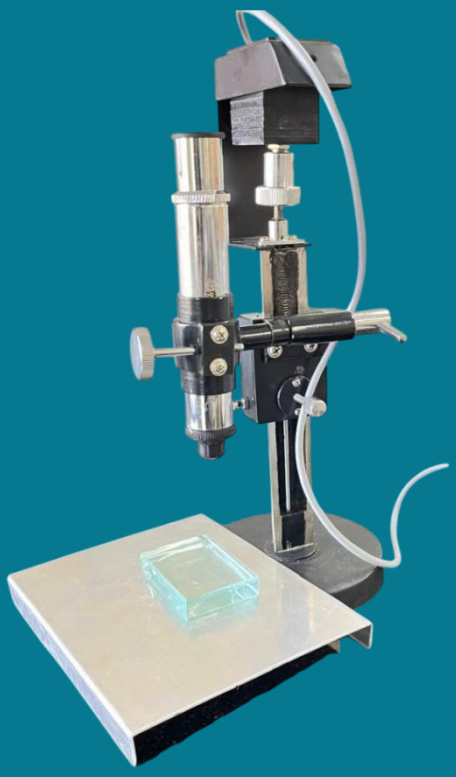
- Type: Desktop version (Anolog and digital)
- Length:600 mm
- Number of holes: 11
- Material: Aluminium rod
- Fulcrum: Suitable for all holes
- Pitch: 50mm
- Stand: Heavy cast iron base with grooved rod



59. Determine the velocity of light in water and refractive index of water using a diffraction grating

- Acrylic tub with grating holding
- 3 in 1 diffraction grating
- Laser source with power supply

60. Digital Traveling microscope

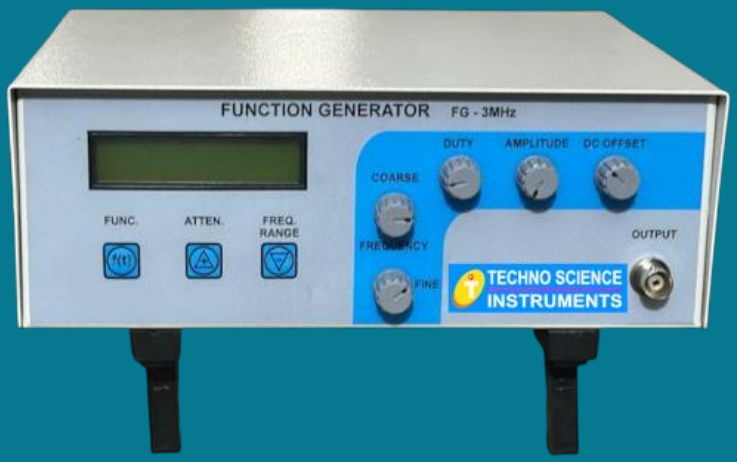


- Number of axis: 1 (Vertical)
- Base: Cast iron
- Moving parts: Brass
- Focus: Adjustable
- Free movement: 150 mm
- Micrometer movement: 10 mm
- Least count: 0.01 mm
- Display: LCD
- Detector: Resistive type
- Rated Input: 220 V/50 Hz or 110 V/60 Hz
- Power consumption:

61. Inertia disc with table

- Base: Heavy mild steel
- Support rod: Stainless steel
- Chuck nut: one
- Reference pointer: one
- Levelling screw: yes
- Wire: Brass (2 m)
- MI plate: Circular

62. Function Generator



- FG – 3MHz generator
- Function selection button
- dB selection button
- Coarse and fine adjustments knob
- Frequency range change button

63. Good and Bad conductor

- *Bulb (6V) for conducting Indicator*
- *^V power supply*
- *Two crocodile clips for material holding*
- *Different type of conductor and non-conductor material for testing*

64. Magnetic effect of electric current

- *Compass (50mm dia)*
- *Copper coil*
- *Direction changes toggle switch*
- *LED indication*

65. Spectrometer 6-Inch and Mercury vapour lamp set

- Bulb: Philips / Osram
- Power: 160 watts
- Transformer free operation
- Encloser: Wooden box with slit
- Rated Input: 220V / 50Hz or 110V 60 Hz
- Spectrometer 6"

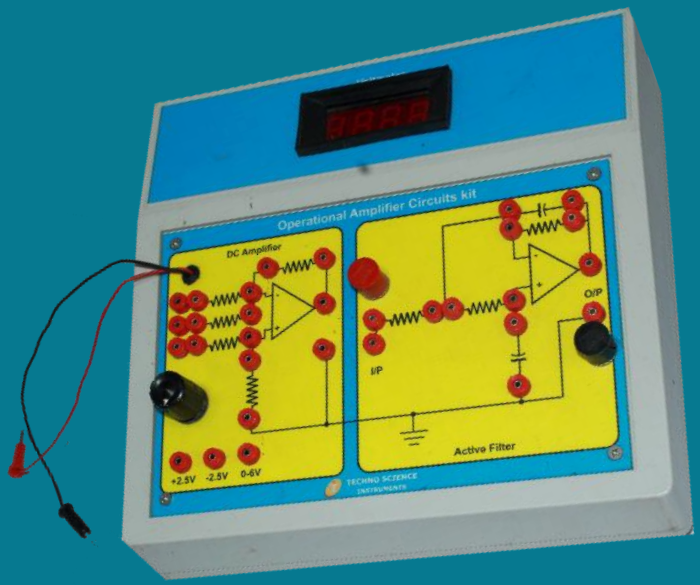
66. Spectrometer 6-Inch Sodium vapour lamp with Wooden box set (35 watt)

- Lamp: Philips 35W lamp
- Lamp house: Single lamp with fixed slit openings
- Transformer: 35 W, Instant ON type
- Rated input: 220V / 50Hz or 110V 60 Hz
- Spectrometer 6"

67. CE Amplifier Characteristics expt setup

- *Circuit arrangement of CE amplifier*
- *Built-in sinewave generator*
- *Variable amplitude adjusts*
- *All components required are supplied*
- *Built-in digital voltmeter*

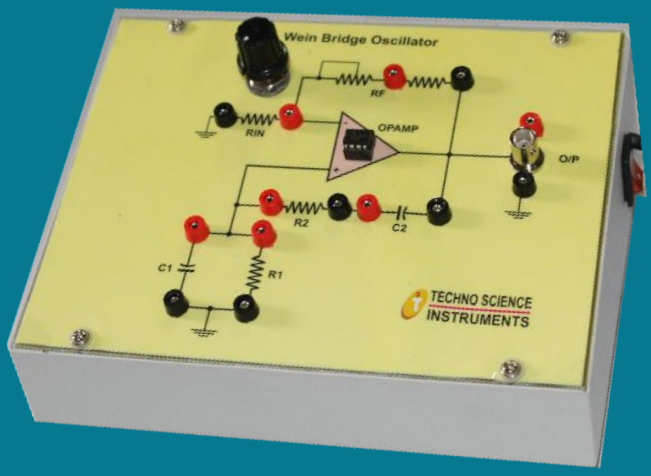
68. OPAMP experiments (Inverting, Non-inverting, Summing, Difference amplifier circuits, Active Filters)

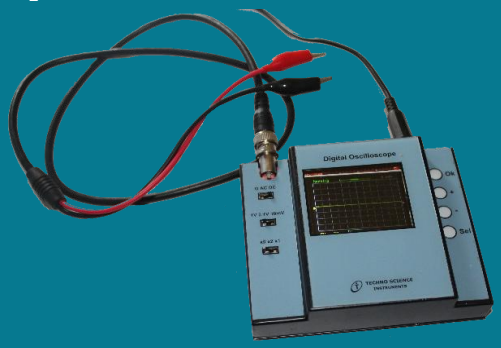


- *Circuit arrangement for various linear circuits and active filters.*
- *Built-in digital voltmeter*
- *Adjustable dc power supply*
- *AC230V operated*

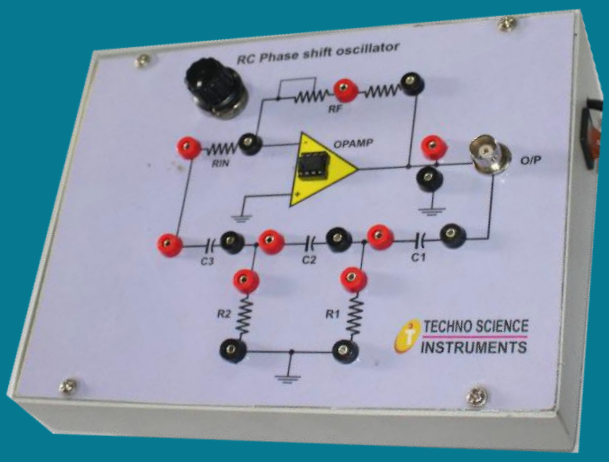
69. Wein Bridge Oscillator experiment

- Wein bridge circuit arrangement
- OPAMP IC base provided
- Adjustable resistor
- BNC connector for output
- AC230V operated
- Mini- digital oscilloscope to measure the output

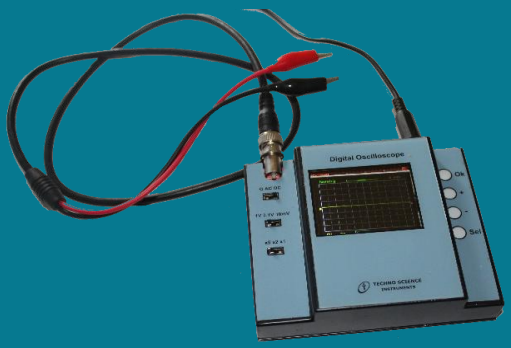




70. RC-Phase shift Oscillator experiment



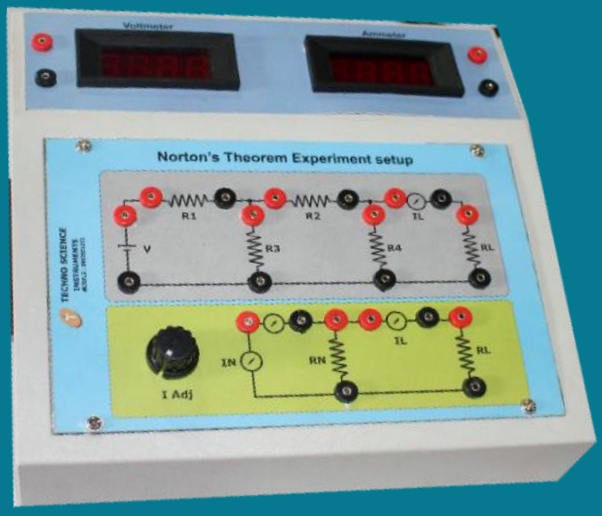
- RC Phase shift circuit arrangement
- OPAMP IC base provided
- Adjustable resistor
- BNC connector for output
- AC230V operated
- Mini- digital oscilloscope to measure the output



71. Thevenin's Theorem verification

- *Adjustable dc voltage input*
- *Circuit arrangement for Thevenin's Theorem*
- *Built-in digital voltmeter and ammeter*
- *AC230V operated*

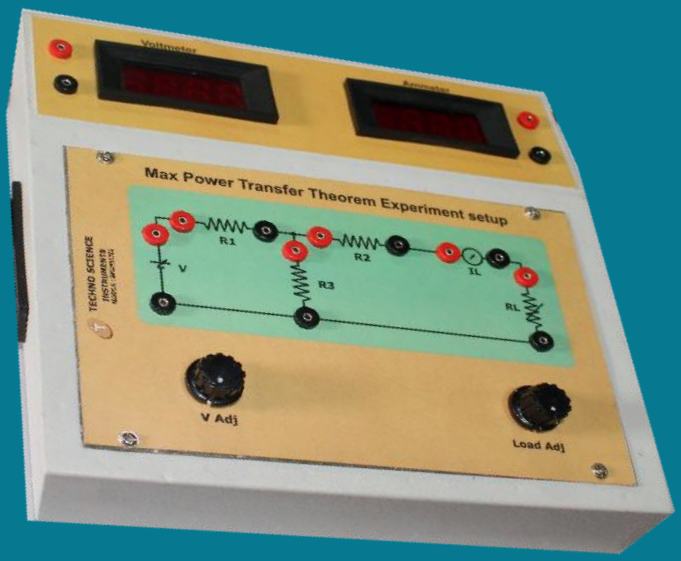
72. Norton's Theorem verification



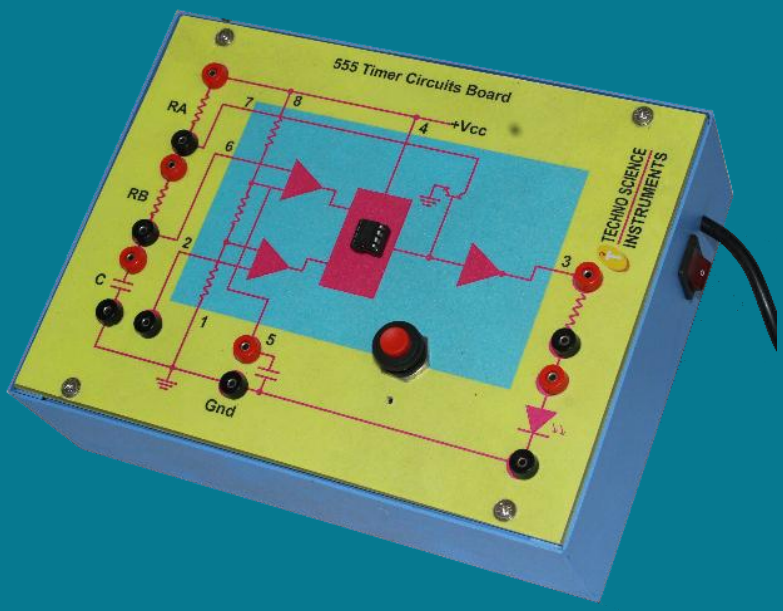
- *Adjustable dc voltage input*
- *Circuit arrangement for Norton's Theorem*
- *Built-in digital voltmeter and ammeter*
- *AC230V operated*

73. Maximum Power Transform theorem

- Adjustable dc voltage source for source and load
- Circuit arrangement to insert resistors and meters
- Built-in digital voltmeter and ammeter
- AC230V operated



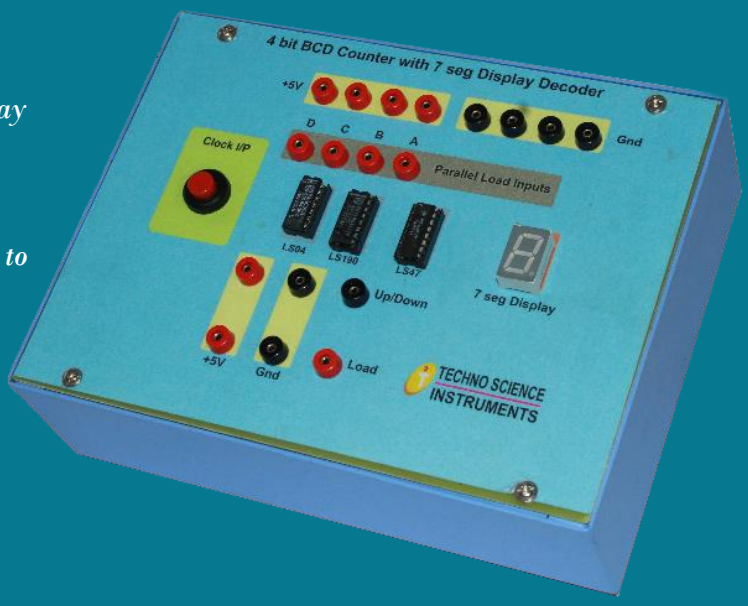
74. Astable & monostable multivibrator using 555 Timer IC



- Circuit arrangement to carryout Astable and MMV
- Micro switch for triggering the circuit
- LED output
- AC230V operated

75. 4-bit BCD counter with 7 segment Display decoders

- *IC7490 based BCD counter*
- *IC7447 based BCD to 7 segment display decoders*
- *Independent input / output connection to carryout parallel load, up-count and down-count*
- *AC230V operated*

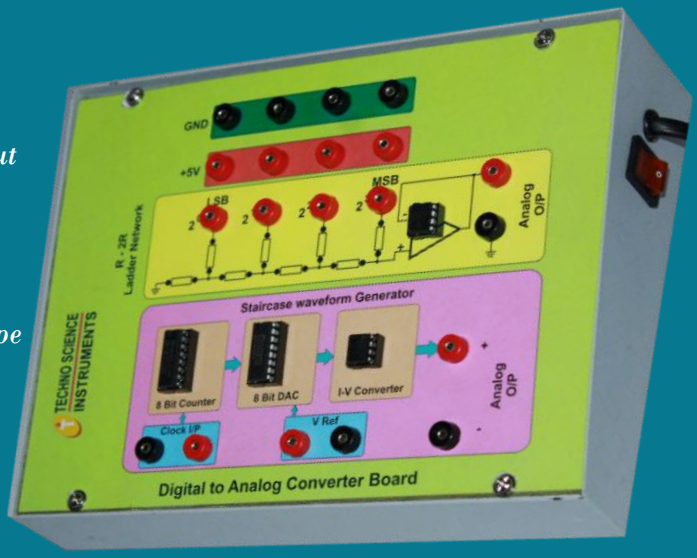


76. Analog to Digital Converter kit

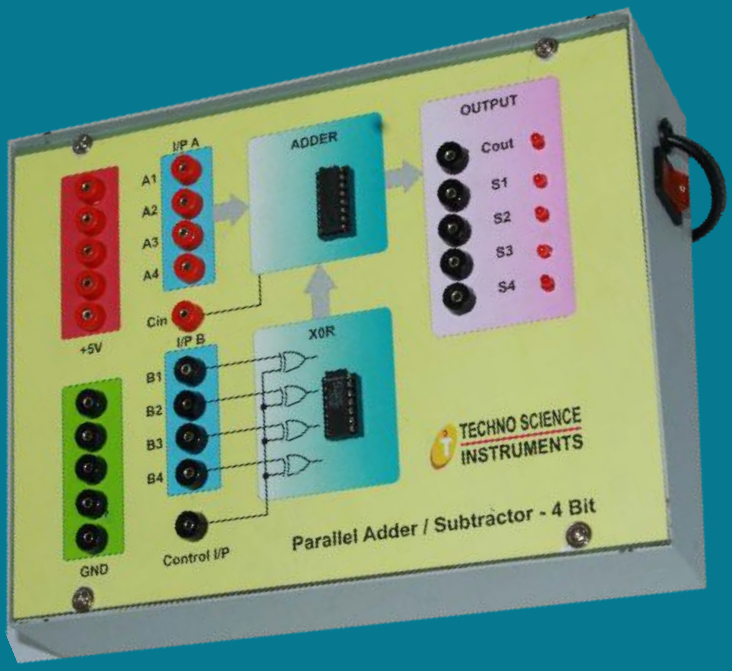
- *8-bit Analog to digital converter IC*
- *Adjustable DC voltage input 0-5V*
- *LED output for all 8 bits*
- *Built-in voltage reference*
- *AC230V operated*

77. Digital to Analog Converter kit

- 4-bit R-2R resistor ladder network
- OPAMP circuit to show voltage output
- 8-bit digital to analog converter IC
- Output can be measured on oscilloscope
- 256 levels of output
- Built-in voltage reference
- AC230V operated



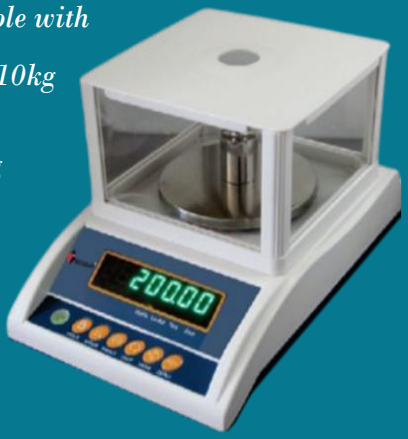
78. 4-bit parallel adder subtractor



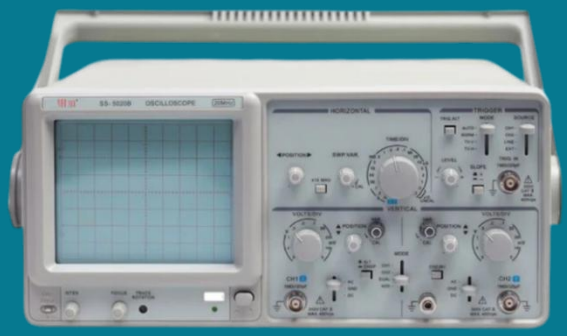
- 4-bit Adder/subtractor IC
- Independent 4-bit A and B inputs
- LED output for 4-bit O/P with carry
- AC230V operated

79. Digital Weighing Balance

- Wensar make, PGB630, PGB220 etc
- Various models are available with weighing capacity 220g to 10kg
- Resolution: 10mg to 0.1mg



80. Digital / analog Oscilloscope



- SS 5150 DS1 B FG 150 MHz 1GS/S Digital storage oscilloscope DSO with Function Generator
- 2 mV - 10 V / Div.
- USB Interface, 7" TFT
- Analog - SS 5030 B, 30 MHz Dual Channel Oscilloscope
- 5 mV - 5 V Vertical Sensitivity
- 2 Ratio Probes & 1 BNC Cable Included as standard

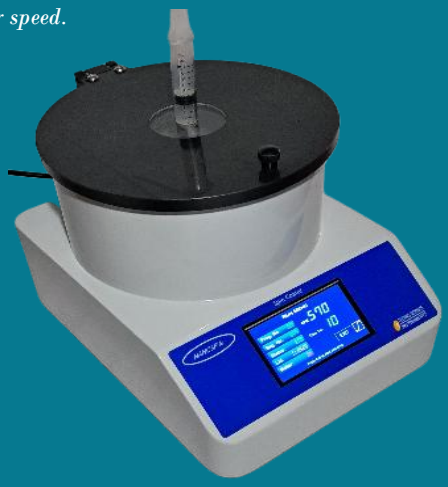
81. Signal generator - Dual channel

- SGD 6M 6 MHz Function Generator
- Signal Generator (DDS, Function), 6 MHz Dual Channel, LCD B/L Display with USB Interface.
- Frequency Output : 6 MHz (10 MHz Resolution)
- Output Channels : 2 Channels
- Sampling Rate : 200 MSa/S (Vertical Resolution - 12 Bits)
- Waveforms : Sine, Square, Triangle, Sawtooth, TTL Digital Signal Wave
- Amplitude : 5mVpp ~ 20Vpp. -20dB Attenuation Facility Provided
- Frequency Counter (Multi Function) : Frequency Range : 0.1 Hz ~ 60 MHz.

82. Dc Linear Power Supply

- (Single O/P), 0~30 V, 0~5 A, CV/CC, With Two 4 Digits L.E.D. Meters With O/P On / Off Switch.
- 0-30V 0-5A Variable Power Supply with Coarse and Fine Controls and Output On/Off Switch with Voltage Live Control
- Transformer Based with Intelligent Cooling System & Overheating Protection
- 4 Digit Multicolour Display With 2 LED Meters
- Superior Build Quality with Heavy Duty Transformer, Overload Protection & Short Circuit Protection
- Users can pause the output and vary the voltage without turning off the output

83. Spin Coater (Touch Screen) - Model: Nano spin SC10K-TS and SC12K-TS



- *Direct Drive Motor.*
- *Digital Signal Processor based PID control of motor speed.*
- *Multi program – multi segment memory.*
- *Large PP bowl.*
- *Nitrogen purge / drain provision.*
- *Colour touch screen for smooth user interface.*
- *Big vacuum chuck to hold smaller to bigger sample.*
- *Spin Speed : 200 -12000*
- *Display : 4.3-inch touch screen*
- *Motor Control: PID Controller*
- *Speed Regulation: <0.2%*
- *Program Memory: 250 programs / 10 seg*
- *Speed Profile: Speed, Duration and Dwell*
- *Ramp Timer: 10 sec to 1200 sec*
- *Dwell Timer: 10 sec to 1200 sec*
- *Disk Diameter: 80 mm*
- *Sample Size: Up to 75mm*
- *Bowl Type & Size: PP bowl 170mm ID*
- *Sample Holder: Polished aluminium disk with Silicone O-Ring / PTFE disk*
- *Sample Mounting: Vacuum holding*
- *Vacuum Connector: 8mm dia Snap-in hose connector*
- *N2 Purge Connector: 6mm dia Snap-in hose connector*
- *Lid: PP Lid Assembly with interlock safety*
- *Dimension (mm): 400(D) 300(W) 250(H)*
- *Real time display of speed, time, motor status, lid status.*
- *Safety feature built in for motor overload and lid open condition.*
- *AC Input / Power: 230V, 40VA*

84. Segment Type Spin Coater - Model: SC8K

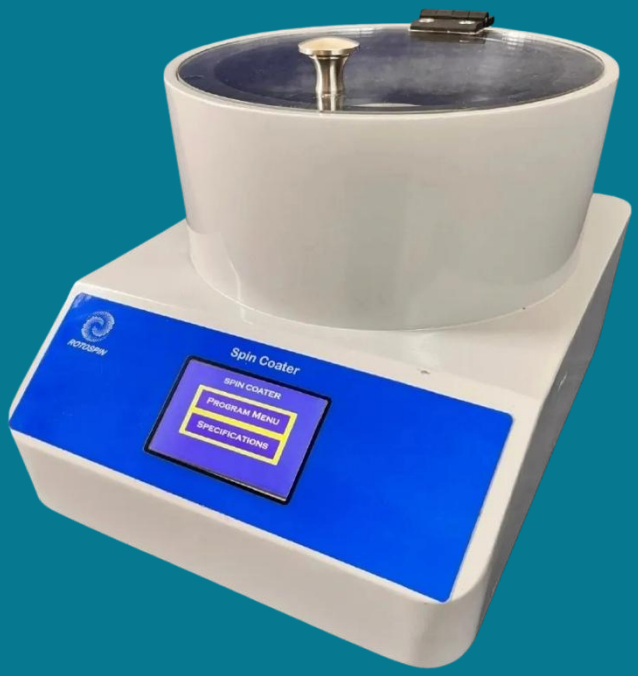
Display Indications

- *RPM: Green 7 segment Display*
- *Status / Time: Red 7 segment Display*
- *Spin On : Green LED*
- *Motor Fault: Red LED*
- *Lid Close: Green LED*
- *Lid Fault: Red LED*

- *Spin Speed: 500 RPM to 8000 RPM*
- *Motor Control: PID Controller function*
- *Speed Regulation: <0.2%*
- *Program memory: 8 programs, multi segment looping*
- *Speed profile: Acceleration, dwell, deceleration*
- *Ramp Timer: 10 sec to 1200 sec*
- *Dwell Timer: 60 sec to 1200 sec*
- *Disk Diameter: 25mm*
- *Sample size: Max 2 inches diameter*
- *Bowl size: 7 inches PP Bowl*
- *Sample holder: Aluminium/PTFE disk with 4mm hole*
- *Sample mounting: Secured by vacuum holding*
- *Vacuum connector: 8mm dia Snap-In connector*
- *Nitrogen Purge: 6mm dia Snap-In connector*
- *Dimension (mm): 400(D) 300(W) 250(H)*
- *AC Input: 230V, 40VA*

85. Spin Coater - Model SC8K-TS

- 8000 rpm DC motor
- Speed adjustable from 200 to 8000 RPM
- 3.5-inch colour Touch Screen.
- PID based motor speed control.
- Digital RPM and timer display on colour
- Touch Screen.
- 25 program memory with
- programming.
- 80mm diameter spinning
- 6.7" PP bowl with acrylic
- Nitrogen purge option.



86. Dip Coater system - Model DC600-TS

- Completely digital technology
- Micro-stepping movement
- Built-in Safety features
- 40 program memory
- User-friendly Menu operation
- Moving Distance: 150 mm
- Up / Down Velocity : 0.1mm to 600 mm/min
- Dip / Dry Timer : 1 to 18000 sec (5 Hours)
- Number of Cycles : 1 to 999
- No. of Substrates / Size: 1 to 4; 100mm x 100mm Max
- Substrate Holder : 50mm dia; chemical resistant
- Mounting adjustment : 0-25 mm
- Display : 4.3" colour touch screen
- Dimension : Dipping arm :430 (H) 250 (D) 140 (W)
- Control Unit : 140 (H) 250 (D) 180 (W)

- Weight : 5 kg
- Material of construction Base: Stainless steel
- Linear guide: Aluminium
- Electronics unit: Aluminium
- Ac input power : 230V 40vat

87. Potentiostat – Galvanostat - Model PG12110

Potentiostat Mode

- *Applied Potential: ±5.000V*
- *Potential resolution: 1.0mV*
- *Accuracy: ±0.05% of full-scale voltage*
- *Noise and ripple: <0.2mV*
- *Slew rate: 6V/µs*
- *Rise time: 10% to 90% with 10k Load: <8µs*
- *Voltage sweep range: 0.1mV/sec to 2000mV/sec*
- *Noise filtering: 0.1ms*

Computer Requirements

- *Hardware: IBM PC compatible, Pentium 1.6GHz upwards, 128MB RAM, at least 1MB disk space for the PGstat program, one COM port and other peripherals.*
- *Software: Windows XP or higer operating system*

Power Requirements

- *AC 230V, 30W*
- *250 mA fuse protected*
- *AC line filter for EMI and RFI suppression.*

Galvanostat mode

- *Applied current: 50µA – 100mA in 8 ranges*
- *Current resolution: 125nA – 625µA*
- *Output compliance: ±16V*
- *Accuracy: ±0.05% of full scale current*
- *Noise and ripple: <0.2mV rms*
- *Rise time: <8µs*
- *Time per point: 200µs min*
- *Max No. of data points: 10000*
- *Noise filtering: 0.1ms*
- *PC Interface: Serial USB 115200 baud, 8 bits data, No parity and 1 stop bit*

88. Other Instruments supplied by Techno Science

Labman Product List		
Sl No.	**Description**	**Model**
1	UV-VIS Double Beam Spectrophotometer	LMSPUV1900/LMSPUV1900S
2	UV-VIS Single Beam Spectrophotometer	LMSPUV1200/LMSPUV1000B
3	Peltier/Sipper System	PS1565
4	Visible Spectrophotometer	LMSPV325/LMSPV320
5	Online PH Controller	OPH11
6	Gradient Thermal Cycler PCR	PCR9602G
7	Dry Bath Incubator	DBI10/DBI18/DBI20
8	Refrigerated Circulating Bath	RCB620/RCB1220
9	Digital Water Bath	LMWB04/LMWB06
10	Digital Ultrasonic Cleaner	LMUC3/LMUC6/LMUC9/LMUC12/LMUC25
11	Turbidity Meter	LMTB200
12	Bio Chemistry Analyser	BCA80

13	Vortex Mixer	LMVM20
14	Visual Colorimeter	LMCR80F
15	Probe Sonicator	PRO650
16	Ice Flaker	LMIF30/LMIF50/LMIF100
17	Digital Rotational Viscometer	LMDV60/LMDV100/LMDV200
18	Automatic Digital Polari meter	ADP45/ADP90
19	Digital ABBE Refractometer	LMAR1317
20	Automatic Digital Refractometer	RFM950/RFM970
21	Ceramic Hot Plate Magnetic Stirrer	LMMS5LC
22	Hot Plate Magnetic Stirrer	LMMS300
23	Dissolved Oxygen Meter	LMDO50
24	PH Meter	LMPH9/LMPH10/LMPH12
25	PH Meter with Thermal Printer	LMPH15
26	Conductivity/TDS Meter (3 Point)	LMCM20

Wenser Product List		
Sl No.	***Description***	***Model***
1	Moisture Analyzer	HPB60H/PGB1MB
2	Analytical Balance-Touch Screen	MAB220T
3	Semi Micro Analytical Balance	MAB220LCD/MAB250
4	Analytical Balance	MAB201/MAB301
5	High Precision Balance	HPB201/HPB501/HPB1001/HPB3000
6	Precision Balance	PGB211M/PGB200/PGB301/PGB220/PGB321
7	Density Balance	PGB201D
8	Precision Gold Balance	PGB600/PGB1000/PGB610/PGB630
9	Platform Balance	PFB101H
10	Density Determination Kit	WDK250
11	Thermal Printer	TP10