

RHEOSTATS AND WHEATSTONE BRIDGE/ELECTRICITY

PR-245 RHEOSTATS

For use as series resistors or potentiometers. Open type slide wire type with a variety of resistance and current carrying capacity. Copper-nickel alloy wire is oxidised to provide perfect insulation. Three 4mm. socket terminals are provided. Supports are made of metal/bakelite. Diameter 43 mm.



PR-246 RHEOSTATS SINGLE

With **protected cover**, newly designed, wound with heavily oxidised resistance wire upon a tube. Fitted with 4 mm. safety socket terminals. Resistance $\pm 10\%$ compared to nominal value.

Resistance Ohms Current Amp.

10	4
10	5.6
33	2.2
33	3.1
100	1.25
100	1.75
330	0.7
330	0.95
1000	0.4
1000	0.5



PRECAUTION

Open design Rheostats are not protected therefore should not be used on more than 50 volts.

- While ordering Rheostats, please specify the Ohms, Current capacity clearly.
- Current indicating is for vertical Intermittent use.
- Current should not exceed 75% of the marked value when Rheostat are used horizontally.

PR-247 WHEAT STONE BRIDGE, ONE METER

This substantial bridge has broad, heavily plated brass strips mounted on polished hardwood base. Terminals with 4 mm. sockets are provided. The 24 SWG constantan wire is stretched along the top of a meter scale in mm. and cm. Supplied WITH JOCKEY. Dimensions 1.13 mm x 80 mm x 50 mm approx. Wheatstone Bridge, Two - Gap Wheatstone Bridge, Four - Gap



PR-248 WHEAT STONE BRIDGE, ONE METER

Four gap type, mounted on **metal base**. The 24 SWG constantan wire is stretched along the top of a metre scale in mm. and cm. Supplied WITH JOCKEY.

PR-249 JOCKEY

For Wheatstone bridge and potentiometer work, with insulated handle, plated brass contact, and a plated brass terminal with 4 mm. socket. Overall length 100 mm.



Electrical Lab Training Modules & Equipment

- | | |
|--|----------------------------|
| Bridges | |
| 1. Anderson Bridge | 2. Schering Bridge |
| 3. Kelvin Bridge (Industrial) | 4. Kelvin Bridge (Student) |
| 5. Maxwell Inductance Bridge | |
| 6. Weins Bridge (Capacity Measurement) | |
| 7. Weins Bridge (Frequency Measurement) | |
| 8. Wheatstone Bridge (Portable) | |
| 9. Desauty Bridge | 10. Hay's Bridge |
| 11. Carry Foster Slide Wire Bridge | |
| 12. Kohlrausch Conductivity Bridge | |
| 13. Religh Bridge | 14. Owen's Bridge |
| 15. Platinum Bridge | |
| 16. Direct Reading Resistance Bridge | |
| 17. Callender and Griffith's Bridge | |
| Optional Accessories for Electrical Bridges | |
| 18. Decade Capacitance Box with Sine Wave Oscillator & Inductance | |
| 19. Decade Inductance Box with Sine Wave Oscillator & Inductance | |
| 20. Decade Capacitance Box with Multirange Sine Wave Oscillator | |
| 21. Conductivity Attachment & Connecting Lead 10Amps (for Kelvin Bridge) | |
| 22. Head Phone | |
| Potentiometers | |
| 23. Potentiometer Single Wire | |
| 24. Potentiometer Double Wire | |
| 25. Potentiometer Four Wire | 26. Potentiometer Six Wire |
| 27. Potentiometer Ten Wire | 28. Junior Potentiometer |
| 29. Senior Potentiometer | |
| 30. Senior Potentiometer (Improved Type) | |
| 31. Crompton Potentiometer | |
| 32. Slide Wire Precision Potentiometer | |
| 33. Vernier Potentiometer | |

SODIUM LAMP, SOLAR SYSTEM & PHOTO CELL

PR-250 SODIUM LAMP WITH POWER SUPPLY



PR-251 SOLAR CELL UNIT

With motor, unit capable of rotating a small propellor, mounted on mini motor to explain conversion of solar energy into mechanical energy.



PR-252 MOUNTED MOTOR FOR SOLAR CELL

This is a small low consumption electric motor on a base specially designed to run directly from the output of the solar cell and to illustrate the direct conversion of light energy to electrical and hence to mechanical. The motor spindle carries a simple pulley, 16 mm. diameter, and is capable of raising a mass of at least 4g. when powered by the solar cell.



PR-253 OTHER MODELS ARE SHOWN BELOW IN THE PICTURE OF A SOLAR CELL SYSTEM UNIT



PR-254 PHOTO ELECTRIC CELL UNIT



Mounted on base, colour coded sockets, with circuit diagram printed for demonstration.

PR-255 PHOTO GATES AND TIMER

These pair of photo gates is housed in tough moulded cases giving them excellent durability. The lamps operate on 6Volts with a special built in circuitry which prevents lamps from damage in case higher voltage is applied accidentally. The photo gates can be connected by 4 mm. sockets to a timer and power supplies.



CAUTION !

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VOLTMETERS, SOCKET & BANANA PLUGS

PR-256 ELECTRIC WHIRL

For demonstrating the effect of electric discharge from points. The apparatus has a 60mm diameter, Three-pointed star wheel with all the points curved in one direction. The wheel rotates freely on a pivot point mounted on a short stand and the stand is provided with a 4mm connection socket on its round moulded base.



PR-257 COPPER VOLTMETER

Consists of 3 copper plates with insulated cover and glass jar.



PR-258 VOLTMETER WITH CARBON ROD

Consists of two Carbon Rod with insulated cover and plastic jar.



PR-259 VOLTMETER

Platinum electrodes, with two graduated test tubes, 10 ml. capacity. Mounted on a base with terminals.



PR-260 BANANA PLUGS

4 mm. Pin, 18 mm. Long spring insert and hard plastic body. Overall length of plug 40mm.



PR-261 INSULATED SOCKET, SPIN FREE

Panel mounted, spin free with 4 mm. sockets. Available in Black/Red colours



Different types of Sockets, Plugs are shown in the picture below



PR-262 SOCKET FOR BANANA PLUGS

Moulded plastic body 4mm. socket, threaded with fixing nut. Sockets are also available in Black, Red, Green & Yellow colour.



PR-263 CROCODILE CLIPS, STANDARD

Spring-loaded, serrated jaws, with screw to clamp end of lead held in tubular extension, both sides insulated. Length 50 mm. and jaws open 9 mm. Red Colour & Black Colour.



BULB HOLDERS, SWITCHES & CIRCUITS

PR-264 BULB HOLDERS

Mounted bulb holder for easy connections to electrical circuits. Overall dia. 30 mm.



PR-265 CIRCUIT MODULES

Simple circuit modules can be used to construct simple circuits. Very useful for younger pupils.

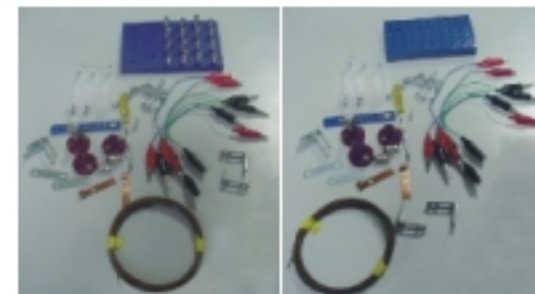


PR-266 WORCESTER CIRCUIT BOARD KIT

The kit consists of baseboard terminals, set of metal connection pillars and a number of clip-on connections strip and accessories units, enable a variety of circuits to be constructed quickly. Supplied with all accessories without cells. Operating instructions provided.



PR-267 SIMPLE CIRCUIT DEMONSTRATION



PR-268 CONNECTED LEADS



PR-269 BULB HOLDERS M.E.S.

Mounted bulb for easy connections to electrical circuits. Overall dia. 30 mm. Bulb Holder M.E.S. Plastic Bulb Holder M.E.S., PVC



PR-270 MORSE KEY

On rectangular wooden base with two terminals, pivoted contact arm with adjustable spring.



PR-271 KNIFE SWITCH, SINGLE POLE

Low voltage, single pole double throw, moulded base with plated metal contacts and screw connectors.



PR-272 KNIFE SWITCH, DOUBLE POLE

Low voltage, double pole double throw, may be used as changeover switch with appropriate connections, moulded base with plated metal contacts and screw connectors.



BATTERY, CELL HOLDERS & TRANSFORMER

PR-273 ACCUMULATORS

Multiplate type, fitted with positive and negative plates, for heavy current loads in plastic container.

Voltage	Capacity
2	45AH
2	60AH
2	75AH



PR-274 BATTERY

Multipurpose, zinc carbon, good quality, leakproof, safe recommended where the current demand are modest.



Type	Voltage	Size
R6 (915B, AA)	1.5 Volt	Pk of 10
LR6 (AA), Alkaline	1.5 Volt	Pk of 2
R03 (AAA)	1.5 Volt	Pk of 4

PR-275 CELL CHARGER

Specially designed for charging Ni-Cd 1, 2, 3 or 4 AA batteries at a time of 1.2 volt, 700 milli amps. Operates on 220 volt AC.



PR-276 CONDUCTIVITY APPARATUS

The apparatus consists of a fabricated transparent acrylic stand supporting three cells in the form of 50 ml glass beakers. Electrodes are suspended into the cells, each having a low voltage lamp in series to indicate the current flowing. The three cells and lamps, as a group are connected in parallel and provided with a pair of 4 mm sockets for connection to the external supply. The lamps provided will allow operation on a supply of up to 12V D.C. Dimensions are 215mmx155mmx115mm widthxdepthxheight



PR-277 CELL HOLDERS

Battery Holder stackable accommodate upto 1.5V, held in spring clips 4 mm. sockets for 1.5, 3, 4.5, 6, 0 Volt tappings. Supplied without battery.

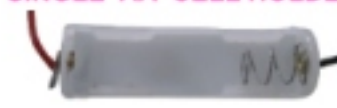


FOUR 'AA' CELL HOLDER

TWO 'AA' CELL HOLDER



SINGLE 'AA' CELL HOLDER



PR-278 CHARGER

Fast charging, operates on 220 Volt AC.



PR-279 DEMONSTRATION TRANSFORMER

With one mains coil 230 to 240 V, 50 Hz, 2400 turns and two interchangeable secondary coils, 65 and 130 turns giving outputs of 6 and 12 V approximately at 2A maximum. The laminated iron core is in two sections, 'T' and 'U' with butt joints, the stem of the 'T' having a cross section 24 x 24 mm. A simple channel and wing-nut clamping arrangement facilitates quick assembly and interchange of coils. The coils are wound on insulating bobbin, with 2-pin connection for mains and 4 mm sockets for the secondary outputs. The number of turns, voltage and amperage is marked on each coil. The transformer is supplied complete with 2 m of flex and a 2-pin mains connector. Overall dimensions 150x100x130 mm.



TRANSFORMER & RESISTANCE BOX

PR-280 ELECTRIC BELL

With detachable 'snap-on bakelite cover, metal thread terminals, silver contacts. Dome gang dia. 75 mm. approx. For use on 3 to 4.5 VAC/DC supplies.



PR-281 DEMOUNTABLE TRANSFORMER

A large-scale transformer, ideal for classroom. The coils are fitted with intermediary outputs providing many transformation ratios. Moreover, one of them has a mains cable so that you do not required an external power supply unit.

Consisting of:

- A I magnetic circuit made up of highly permeable U-shaped metal sheeting, which can be closed via two clamps with tightening screws.
- B Section 40x40mm. length 150mm-Height 170mm.
- C One coil of 6000turns, 350 ohms, 1 Max: 0.2A. Intermediary 2000 turns output used.
- D One coil of 600 turns, 1 max. 2.5A. Mainly to create the transformer primary. Provided with power supply cable.
- E One coil of 1200 turns, 12.5 ohms, 1 max: 1.25A fitted with intermediary 400 and 800 turns outputs.
- F One coil of 72 turns 1 max: 12A, has intermediary 6,30 54 and 66 turns outputs.

Any other coil of different turns available on request.



PR-282 AUTO TRANSFORMER

Continuously variable voltage autotransformer, protected type. Comprises a torially wound transformer with a continuously variable output voltage 0-260 volts A.C. steplessly under full load. Input 220-240 Volts A.C. 50 Hz. In stout metal case mounted on a metal base with two output terminals. Single phase with mains cable.



PR-283 RESISTANCE COILS

Non-inductively wound with double silk covered constantan coils on plastic rod enclosed in transparent plastic tube with two terminal and values figured. Accuracy $\pm 1\%$. Individually packed.

- 0.1 to 0.9
- 1 to 10
- 11 to 50
- 51 to 100
- 101 to 500



PR-284 POST OFFICE BOX, PLUG TYPE

Plug type, in polished wooden box with hinged lid and panel to show circuit connections. Coils of constantan wire double silk covered are wound non-inductively. Three pairs of ratio arms are each 10, 100, 1000 ohms and resistance arms contains 16 coils from 1 to 5000 ohms with infinity plug. Total value 11, 110 ohms. Two



spring keys having contact for battery and galvanometer fitted. Accuracy of coils 100 to 500 ohms $\pm 0.05\%$ and of the rest coils $\pm 0.1\%$.



POST OFFICE BOX DIAL TYPE ARE ALSO AVAILABLE AS SHOWN IN PICTURE

ELECTRICAL METERS

PR-285 ROUND PANEL METER

SO 65 (AC/DC Moving Iron Type)
 Ranges : 50mA - 75Amps and 3V - 600V
 Accuracy : $\pm 3\%$
 Case : Black Bakelite Case
 Scale Length : 55 mm $\pm$ 2 mm.
 Size : 80x80mm



PR-286 RECTANGULAR PANEL METER, LARGE SIZE

Size : 100 x 80mm



PR-287 SQUARE PANEL METER

Size : 72x72mm



PR-288 MOVING COIL METERS

Meters are designed for D.C. measurements to meet every need of schools, colleges and technical institutions. All meters are housed in moulded dust proof cases with zero-adjuster and have connections terminals.

Type MO-65 Round
 Case : ABS Plastic
 Accuracy : Class 2.5
 Scale length : 50 mm.
 Overall size : 100x90x90 mm. approx.



PR-289 GALVANOMETER

Moving coil D.C. only, with 4 mm. terminals.
 1-0-1 mA. 35-0-35 mV. 3.5-0-3.5 mA.
 30-0-30 Sensivity 20 μ A/Div. are also available.



PR-290 MILLI - AMMETERS

Moving coil, D.C. only, single range 0-1, 5, 10, 30, 50, 100, 500 mA.



PR-291 VOLTMETER

Triple Scale, Moving coil D.C. only, with 4 mm. terminals.
 3V/15V/30V
 3V/15V/300V



Double Range Voltmeter

PR-292 VOLTMETER

Dual Scale, Moving coil D.C. only. Any range 1/5, 3/15, 5/15 volts.



Triple Range Voltmeter

PR-293 DIGITAL METERS

Portable type, having large display of 3½ digits, type LCD, power 9 Volts battery, accuracy ± 1 digit, size 125x65 mm.

DC voltage ranges

- 0-199.9 mV
- 0-1.99 V
- 0-19.9 V
- 0-199.9 V

DC current ranges

- 0-199.9 μ A
- 0-1.99 mA
- 0-19.9 mA
- 0-199.9 mA
- 0-10 Amp.



ELECTRICAL METERS

PR-294 DEMONSTRATION METER INTER SCALE

Housed in a ABS plastic case 300x150x300 mm with glass front and rear. Moving coil type with accuracy of $\pm 2.5\%$. Basic sensitivity of meter is 5 mA, 100mV f.s.d. The meter can be used to demonstrate the working principle of AC or DC ammeters or voltmeters with the interchangeable plastic scales. DIFFERENT DIALS ARE AVAILABLE.



PR-295 DIAL INTERCHANGEABLE

For use with Meter Interchangeable. Each dia, comprises a laminated plastic panel 315x115mm. with a sealed moulded box at one end which contains the shunt or voltage multiplier appropriate to the scale.

D.C. Current	D.C. Voltage	A.C. Current	A.C. Voltage	Millivolts Range
2.5-0-2.5mA	0-1 V	0-10 mA	0-5 V	0-100
10-0-10mA	0-5V	0-50 mA	0-10V	0-500
0-10 mA	0-10 V	0-100 mA	0-15 V	
0-50 mA	0-15V	0-500 mA	0-50 V	
0-100 mA	0-300 V	0-1 A	0-300 V	
0-500 mA	5-0-5 V	0-5 A		
0-1 A	10-0-10 V			
0-5 A				
0-10 A				

METERS

PR-296 MOUNTED JOULE METER

A domestic electricity meter adopted to operate single-phase 2, wire C1.2mA x 8.33 A 12V 50 Hz. 0.01 rev./J and dials reading in joules. The meter is mounted on a wooden bench stand input and output socket terminals. The aluminium disc rotates once for every 100 Joules with the consumption recorded on three digits calibrated 100, 1000 and 10000 joules per division respectively. The instrument records a maximum of 99,900 Joules.



PR-297 OHM'S METER



Ohm's meter is designed for measuring the resistance in electric circuits. It is housed in unbreakable case with front clear cover. The dry battery cell is fixed to stand from the bottom side.

SHUNT Type 0-2 K Ω **SERIES Type** 0-100 Ω

PR-298 DIALS, INTERCHANGEABLE

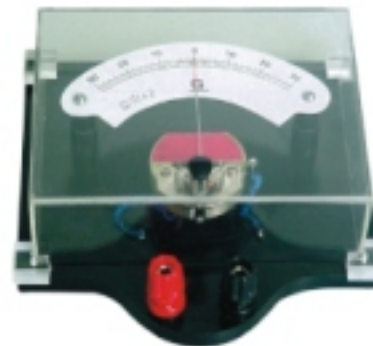
Each dial comprises a laminated plastic panel 315x115mm. with a sealed moulded box at one end which contains the shunt or voltage multiplier appropriate to the scale.

D.C. current	D.C. Voltage	A.C. Current	A.C. Voltage	Millivolts Range
2.5-0-2.5mA	0-1V	0-10mA	0-5V	0-100
10-0-10mA	0-5V	0-50mA	0-10V	0-500
0-10mA	0-10V	0-100mA	0-15V	
0-50mA	0-15V	0-500mA	0-50V	
0-100mA	0-300V	0-1A	0-300V	
0-500mA	5-0-5V	0-5A		
0-1A	10-0-10V			
0-5A				
0-10A				

PR-299 DEMONSTRATION METER

In a rectangular transparent plastic case, provides clear view into the working of meter. Moving coil type, can be supplied as ammeter, voltmeter or galvanometer 4 mm. terminals.

Galvanometer 30 0 30 **Voltmeter** 0 to 5, 10, 50, 250V **Ammeter** 0 to 1, 1.5, 3, 5A



PR-300 SPOT REFLECTING GALVANOMETER

Suitable for Industrial Kelvin Double Bridge and Senior Kelvin Double Bridge. Galvanometer Resistance 125 ohms Nominal, Sensitivity 15 mm. scale division per micro amp., time period 2 second, critical damping resistance 1000 ohms and working voltage is 230 Volts. AC. 50 Hz.



PR-301 DIGITAL MULTIMETER MODEL

D.C. Voltage : 200mV-1000V $\pm 0.5\%$ ± 2 digits
 A.C. Voltage : 200V-750V $\pm 1.2\%$ ± 10 digits
 D.C. Current : 200 μ A-10A $\pm 1\%$ $\pm$ digits
 Resistance : 200Ohms-2000kOhms $\pm 0.8\%$ ± 2 digits
 Max. Display : 1999
 Display Size : 16x48mm., 3 1/2 digits LCD
 Range : Manual
 Transistor Test : Yes
 Standard
 Accessories : Battery, Testing Probes with Instruction Manual, in case, CE Marked



MULTIRANGE METERS, GALVANOMETER & WATER CIRCUIT BOARD

PR-302 MOVING COIL MULTIRANGE METER

For DC & AC current and voltage. The operation of these meters depend on the reaction of the current circulating in the moving coil and a field of a fixed permanent magnet. Considering the operational nature and design of these instruments, the scale is linear. Since the direction of the movement rotation depends on the direction of the current flow (polarity) in the circuit. The moving coil multirange meter can be used on direct current circuit and also alternating current with a suitable rectifier inserted in the circuit.



Accuracy :

DC $\pm$ F.S.D.
 AC ± 2.5 F.S.D.

Scale Length : 60 mm approx. with knife edge pointer and anti parallel mirror scale.

Dial Size : 80x80 mm, rectangular.

Moving Coil Multirange Voltmeter has following ranges :-
 DC & AC 0-5 - 25 - 50 - 100 - 250 - 500V

Moving Coil Multirange Ammeter has following ranges :-
 DC & AC 10 mA - 100mA - 500 mA - 1A - 2.5A - 5A



PR-303 BALLISTIC GALVANOMETERS

Used for measurement of small quantities of electrical charge. Levelling Screws for balancing the coil. Coil with mirror suspended between long suspension at the upper end and a spring at lower end. Clamping arrangement for transportation. Consistent sensitivity over a large period. Strip provided for making it a periodic.

Res. in Ohm	Sensitivity mm per m Coul.	Sensitivity mm per m Amp.	Time period in Seconds	Crit. Damp. Res. in Ohms
100	300	1000	12	2000
500	600	1400	12	3500



PR-304 WATER CIRCUIT BOARD

This is an analogue apparatus to illustrate electrical current flow. It consists of a large board on which is mounted a low-voltage electric pump, connected to 4 mm socket terminals, which circulates the water through the 'circuit'. The circuit is of clear plastic tubing connected to glass tubes of differing bores representing resistance. Across the 'resistances' is connected a detachable manometer to show the 'potential difference'. Following the resistance is a taper-ended tube discharging into a funnel so that the rate of flow representing the current may be shown.

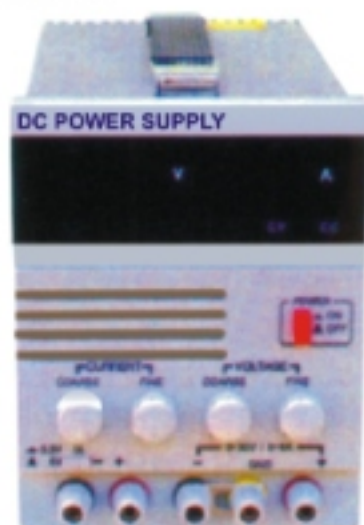
Dimensions of board 590x320 mm approx.
Dimensions of manometer 275x155 mm approx.



POWER SUPPLY

PR-305 DC REGULATED POWER SUPPLY (SINGLE OUTPUT)

- PR 230 (0-30V / 2A), PR 231 (0-30V / 5A)
- High accuracy, high stability
- Overload & short circuit protection
- Allow full scale long time operation
- Voltage and current continuously variable within nominal value
- CC/CV indication



PR-306 DC REGULATED POWER SUPPLY (DUAL OUTPUT)

- PR 240 (0±30V / 2A), 0±30V/5A)
- High accuracy, high stability
- Over load & short circuit protection
- Over all output protection
- Allow full scale long time operation
- Voltage and current continuously variable within nominal value
- CC / CV indication



PR-307 MULTIPLE DC REGULATED POWER SUPPLY

- High accuracy, high stability
- Short circuit & overload protected
- Allow full scale long time operation
- Voltage and current continuously variable within nominal value.
- CC/CV indication



PR-308 SPECIAL PURPOSE POWER SUPPLY

Student AC/DC Power Supplies with over load & short circuit protection

1. AC/DC Power Supply 2-12V/2 Amps in steps of 2 Volts
2. AC/DC Power Supply 2-12V/3 Amps in steps of 2 Volts
3. AC/DC Power Supply 2-12V/5 Amps in steps of 2 Volts
4. AC/DC Power Supply 2-16V/3 Amps in steps of 2 Volts
5. AC/DC Power Supply 2-24V/3 Amps in steps of 2 Volts
6. AC/DC Power Supply 2-24V/5 Amps in steps of 2 Volts

Battery Charges

7. Battery Charger 2-12 VDC/2 Amps
8. Battery Charger 2-12 VDC/3 Amps
9. Battery Charger 2-12 VDC/5 Amps

Automatic Battery Charges

10. Automatic Battery Charger 6-18 VDC/2 Amps.
11. Automatic Battery Charger 6-18 VDC/3 Amps.

Battery Eliminator

12. Battery Eliminator 2-6 VDC/2 Amps
13. Battery Eliminator 2-12 VDC/2 Amps
14. Battery Eliminator 2-12 VDC/3 Amps
15. Battery Eliminator 2-12 VDC/5 Amps

DC Regulated Battery Eliminator

16. DC Regulated Battery Eliminator 2-123 VDC/2 Amps
17. DC Regulated Battery Eliminator 2-12 VDC/3 Amps



PR-309 LOW VOLTAGE POWER SUPPLY AC/DC

Analog voltage & current readout, robust transformer & highly stabilized circuitry.



PR-310 POWER SUPPLY

The DC regulated power supply is an easy to use, low ripple high regulation precision instrument. Its unique feature is overload protection which makes it a safe power source for testing of electronic equipment.



Both voltage and current are precisely regulated with low output ripple. The power supply can be operated in either constant voltage or constant current mode and is protected against overload or short circuit by means of automatic cross over characteristics from C.V. to C.C..

The output voltage and currents can be read on a meter. A switch is provided to select the LOW or HIGH range of current. Maximum voltage is 30 volts.



DIGITAL A.C./D.C. POWER SUPPLY ARE ALSO AVAILABLE

POWER SUPPLY

PR-311 DC REGULATED POWER SUPPLY (SINGLE OUTPUT)

- PR 230 (0-30V / 2A), PR 231 (0-30V / 5A)
- High accuracy, high stability
- Overload & short circuit protection
- Allow full scale long time operation
- Voltage and current continuously variable within nominal value
- CC/CV indication



PR-312 PROGRAMMABLE DC POWER SUPPLY (0-36VDC/3AMPS)



Features

- High stabilized programmable voltage/current/power outputs
- Menu operation by front keypad and rotary switch
- Large LCD display with backlight
- Output continuously adjustable output
- Maximum current/power output presetable
- Constant current/voltage/power output mode
- Over current, voltage and over power protection
- Memory: Store & recall setup data for different applications
- Series/parallel connections
- Interface to computer
- Safety design

PR-313 HIGH VOLTAGE POWER SUPPLY

