

PHYSICS 2022-23

List of Equipments

SI No	Item	Specification	Quantity
1	Cathode Ray Oscilloscope	<p>Metravi -30MHz Dual Channel Dual Trace Cathode Ray Oscilloscope with component test facility, comes complete with 1:1 and 10:1 probes</p> <p>Detailed Specification</p> <ul style="list-style-type: none">• Bandwidth: 30MHz• Full bandwidth sweeping circuit is used in the sweeping system• The flexible and convenient triggering mode has the functions for selecting signals from one channel or triggered by Ext signals• ALT trigger to observe signals from two irrelative channels• The instrument has the functions of TV-H / TV-V synchronization and trigger-lock to observe all kinds of signals stably• From the terminal for trigger input, CH1 and CH2 signals can be output along with the triggering channel to connect the Ext frequency counter• Y deflection operation: Y1, Y2, ALT, CHOP, ADD, mode X-Y• Vertical Deflection: 5mV/Div to 20V/Div in factor 1-2-5 sequence in 12 steps• Rising time: < 18nS• Maximum Input Voltage: 400V (DC +ACp-p)• Triggering Source: Y1, Y2, ALT, POWER, EXT• Trigger Coupling: AC/DC (EXT), NORM/TV-H, 0.2s/div in 1-2-5 sequence in 20 steps• Magnification: x10• X-Y Mode input: X-Axis Y1 and Y- Axis Y2• Z Axis minimum input level: TTL Level• Component Test Facility• Calibration Signal: Square wave of 0.5V at 1kHz• CTR Display size: 8cm x 10cm	1



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**Digital
Output
AC/DC
Power
Supply
(Battery
eliminator)**

Aplab

1

Digital Output AC/DC Power Supply, 0-25V/5A – Model Z2505D

Description

- Fully Metallic Construction to Stop Radiated EMI
- 0-25 @ 5AMP Variable
- AC or DC Selection Switch
- Separate Circuit Breakers for AC & DC
- Output Voltage 3 Digit LED Display (Green)
- Output Current 3 Digit LED Display (Green)
- Power Switch ON/OFF Switch with LED Indicator
- Separate Power Switch
- Heavy Duty Transformer
- Rugged Metal Case
- 115V @ 60Hz or 230VAC, 50Hz, Single Phase

With overload protection

SPECIFICATIONS

AC Voltage	
Output Voltage	No Load 0V to 30V (nom)
Output Voltage	Full Load 0V to 25V ± 2V
Output Current	5A max
Output Protection	5A Circuit Breaker
DC Voltage	
No Load	0V to 40V
Full Load	0V to 25V ± 2V
Output Voltage	0V to 25V (nom)
Output Current	5A Max
Output Protection	6A Circuit Breaker
DPM V/A Selection	2Pole/2Way Push Switch
Output Voltage	3 Digit LED Display (Green)
Output Current	3 Digit LED Display (Green)
General	
Input Power	115V/230VAC, 60Hz, single phase
Input Fuse	115/230V: 2A/3A, 250V Slow Blow
Dimensions	235 (W) x 155 (H) x 295 (D) mm (approx.).
Weight	10.0 Kg (approx.)



3	DC Regulated Power Supply with Single Output and Backlit LCD Display of Variable 0 - 30V / 0 - 5A DC	<p>Metravi RPS-3005 DC Regulated Power Supply DC Regulated Power Supply with Single Output and Backlit LCD Display of Variable 0 - 30V / 0 - 5A DC with a maximum output of up to 30 volts and a current capable of 5 amps; LED display with clear resolution, above-average LCD accuracy (+/- 2.%%), and programmable voltage and current.</p> <ul style="list-style-type: none"> • Two operational modes: Constant Voltage Mode and Constant Current Mode • Built-in High Current Limiting for protection • Built-in thermo-sensor-activated cooling fan 	1
4	Resistance box -0.1 Ohms to 10 Ohms	Constantan wire wound Thick brass blocks 0.1-10 Ohms Highest Quality Constantan Coil	4
5	Resistance box - 1 Ohms to 100 Ohms	Constantan wire wound Thick brass blocks 1-100 Ohms Highest Quality Constantan Coil	4
6	Resistance box - 1 Ohms to 10000 Ohms	Constantan wire wound Thick brass blocks 1-10000 Ohms Highest Quality Constantan Coil	4
7	Standard Resistance - 1 Ohm	Constantan Coil 1 Ohm	5
8	Standard Resistance - 10 Ohms	Constantan Coil 10 Ohms	5



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