



55765 Experimental Set-Up has been designed specifically to study of Planck's Constant by Spectrometer and Photo voltaic cell. The set-up consists of Spectrometer, Digital Nanoammeter, Prism, Photo voltaic cell, Power supply etc. The set up is complete in all respects and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

Determination of Planck's Constant by Spectrometer and Photo voltaic cell.

FEATURES

The complete Experimental Set-up consists of the following :

01 Spectrometer Standard :

6" dia circle reading 30seconds, with a long arm in place of Telescope fitted with double convex lens 50mm dia, focal length 40cm on one end and photo voltaic cell with width adjustable slit Drum type on the other end. The distance between lens and photo voltaic cell can be adjusted for better focussing. Prism table is provided with three leveling screws and is engraved with concentric rings and lines. The scales and verniers are of stainless steel and are machine divided.

02 Digital Nanoammeter

Range	:	100nA, 1mA, 10mA, 100mA.
Accuracy	:	$\pm 0.25\%$ for all ranges
Resolution	:	0.1nA, 1.0nA, 10nA, 100nA.
Input Resistance	:	25W, 2.5W, 0.25W, 0.025W.
Display	:	3½ digit 7segment LED (12.5mm height) with auto polarity and decimal indication.
Input	:	Through amphenol connector.
Power Supply	:	220V $\pm 10\%$, 50Hz.

03 Prism : Optically worked with two faces polished, Equilateral, size 38mm x 38mm.

04 Power Supply :

0-6V DC at 3A, IC regulated, continuously variable and short circuit protected power supply with coarse and fine voltage controls with two Digital Panel Meters (DPM) of 3½ digit one of 19.99 volt D.C. and other of 19.99 Amp. D.C.

05 Photo voltaic cell with width adjustable slit drum type on stand.

06 Incandescent bulb with house on stand.

07 Double convex lens (50mm dia. and F.L. 10cm) with holder on stand.

08 Weight : 19.5 Kg. (Approx.)

09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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