HYDROGEN SPECTRUM & RYDBERG CONSTANT

Model: HS-0601/017

Experiment(s):

1. Determination of Rydberg constant

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : Lab Experiments Journal vol-5, No.3, Page-239

Experiment setup consists:

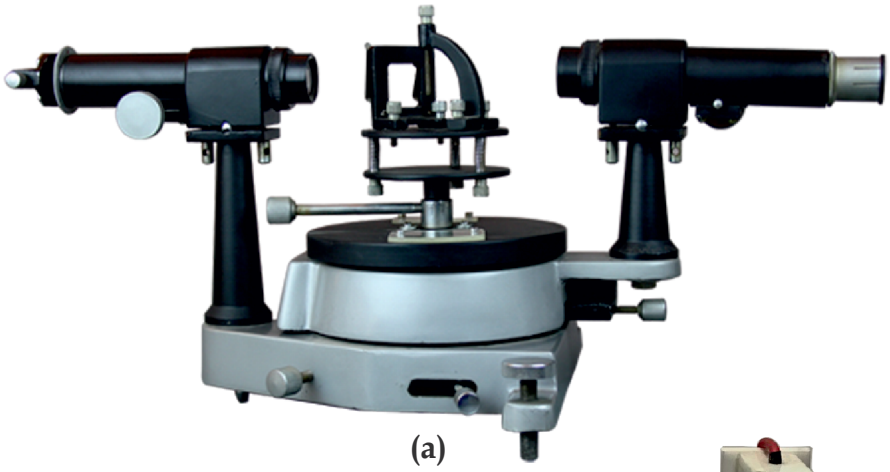
a) Spectrometer
b) Diffraction grating
c) Hydrogen discharge tube and power supply

Specifications:

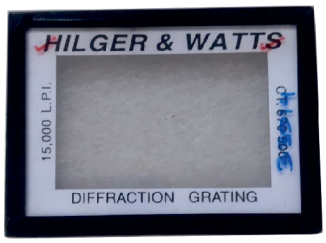
a) Spectrometer
Scale: 6" diameter (Brass)
Base: Cast iron with levelling screw
All moving parts made of Brass for accuracy
Collimator with adjustable slit
Horizontal axis alignment for collimator: Yes
Horizontal axis alignment for telescope: Yes
Centre table: Height adjustable with provision for prism and grating holder
Telescope with user changeable cross wire and eyepiece

b) Diffraction grating
Grating constant: 15000 Lines/inch
Window size: 40 mm x 30 mm

c) Discharge tube power supply
High voltage power supply variable from 0-5 KV
Rated Input: 220 V/50 Hz
or 110 V/60 Hz
Suitable for other discharge tubes
Discharge tube: Hydrogen filled (Qty: 2 Nos)
Stand: Height adjustable to accommodate all Kamaljeeth make discharge tubes



(a)



(b)

(c)

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3 years manufacturing warranty