

IV-E229B Febry Perot Interferometer



Scope of Learning:

- DETERMINATION OF WAVELENGTH OF HE-NE LASER BY FEBRY PEROT INTERFEROMETER

About Interferometer:

- It is specially useful for accurate measurements, comparison of wavelengths and examination of hyperfine structure of spectral lines. It is also used for measuring wavelength changes by application of magnetic field.
- It consist of a partially coated mirror mounted in an alumminium housing. This module is placed in front of the moving mirror to set up the Fabry Perot Interferometer. Two adjustable screws are provided for making the two etalons parallel.
- In built Telescope has a magnification of 3x and is fitted with a Ramsden eyepiece & a cross line graticule.

Required Accessories: He Ne Laser With Stand (2mW)

- Operating Wavelength :632.8nm (RED)
- Beam Diameter::0.8mm
- Beam Divergence :< 1mrad
- Mode: TEM
- Output Power Stability :+2.5%
- Power Input:220V AC +10%, 50Hz Min.
- Operating Life time :15,000 Hrs.
- Shelf Life:10 years