

KIT OF SPECTROMETRY

Mod. F-SPET/EV



DESCRIPTION

Spectrometry is an important analytical method for qualitative and quantitative determination of certain substances using the index of refraction of the material and lamps with emission in a range of wavelengths or monochromatic lamps.

TRAINING PROGRAM

- Determining the resolving power of a diffraction grating
- Determining the index of refraction of the material of prism by using a mercury-vapour lamp
- Determining the wavelength of mercury light, by using a diffraction grating

TECHNICAL SPECIFICATIONS

- Spectrometer - goniometer
- Power supply unit for spectrum discharge tubes
- Spectrum tube mercury
- Prisme, dimension: 38 mm
- Diffraction grating
- Micrometer slot

Spectrometer - Goniometer

To determine the precise optical data of the prisms. It can also be used as a spectroscopy to observe and measure the spectra of emission and absorption.

- Telescope: continuously adjustable
- Eyepiece reticle
- Objective: 18 mm / 160 mm
- Slit tube: Symmetrical precision slit of hardened steel
- Eyepiece: 18 mm aperture, 160 mm focal length
- Prism: Flint glass (60°),
- Dispersion C-F 2°
- Length of base: 33 mm, height: 22 mm
- Angular scale: 0° up to 360°
- Division 0,5°
- Vernier reading accuracy: 1 angular minute
- Weight: 7,9 kg

Power supply unit for spectrum discharge tubes

- Power supply unit designed for use in running spectrum discharge tubes.
- Power supply: 220 V.

Prism

- dimensions: 38 x 38 x 38 mm
- height: 38 mm

Diffraction Grating

- Dimensions: 38 x 50 mm
- 600 Lines

Micrometer Slot

For resolving spectral lines

- Pitch: 0.5 mm
- Range: 0-6.5 mm
- Diameter: approximately 38 mm

SUPPLIED WITH

THEORETICAL - EXPERIMENTAL HANDBOOK



OPTIONAL

- Oxygen spectrum discharge tube
- Air spectrum discharge tube
- Water vapor spectrum discharge tube
- Neon spectrum discharge tube
- Hydrogen spectrum discharge tube
- Krypton spectrum discharge tube
- Carbon Dioxide spectrum discharge tube
- Helium spectrum discharge tube
- Nitrogen spectrum discharge tube
- Argon spectrum discharge tube
- Bromine spectrum discharge tube
- Iodine spectrum discharge tube
- Projector for spectroscopy mod. 4326
- Cooktop for the observation of the spectral lines of emission and absorption mod. 4325