

Sample Changer: No change in temperature level because light sources located at safe distance.

Amplifier: Linearity assured due to modulated light. Therefore, wide choice of amplification steps.

Monochromator: Enlarged measuring range from 185 m μ to 2500 m μ at highest resolving power. Friction-free slit adjustment. Chopper diaphragm incorporated for modulating light.

Light Sources: By operating a knob, tungsten or hydrogen bulb can be used.

Detectors: Choose either multiplier or phototube by operating a lever.

Power Supply: Operates on line voltage and takes care of stabilization.

Scales: The projected enlarged precision micro scales can be read off conveniently, free of parallax.

Optical Bench: Makes quick interchange of all accessories possible without realignment.

The Carl Zeiss Spectrophotometer PMQ II

The PMQ II is outstanding for rapid measurements of liquids, gases and solids at the highest resolving power of the spectrum. You can make a quick survey of a sample, find out where its absorption bands lie and determine its concentration precisely due to direct indication. The instrument operates on a.c. line voltage and is completely stabilized electronically. Modulation of the measuring light by built-in chopper diaphragm assures linearity of the amplification, constancy of zero point and the elimination of dark current. Sensitivity can be varied as follows:

0-10 (in steps of 0.1 optical density—calibrated)

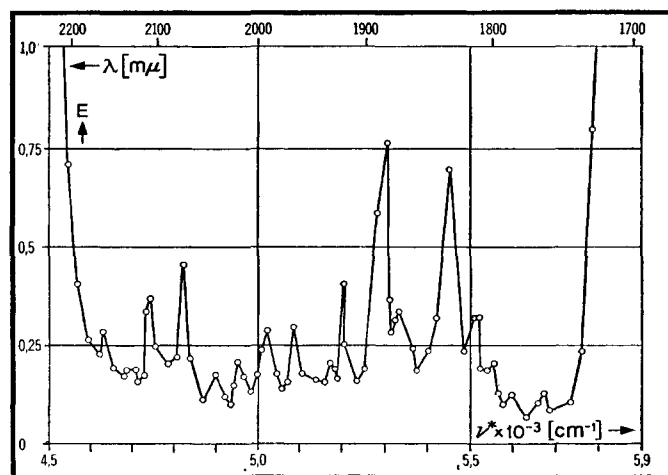
10-100 (calibrated)

100 to approximately 3000

An adjustable damping device for varying the response time results in minimum fluctuations at highest amplification. This is especially useful for Flame Photometry. All important electrical circuits and tubes can be tested by a built-in checking device. Slit width can be set to 0.2 microns. Thanks to frictionless design of the Spectrophotometer PMQ II, no play is possible in slit and wavelength settings. Combined error of wavelength setting and reading, for instance at 250m μ , is $\pm 0.05m\mu$.

The PMQ II is extremely accurate and versatile. Accessories available are: servo motor to operate the 100 Point Adjustment

Device, attachments for analysis of chromatograms, fluorescence and reflectance measurements, and for flame photometry. Write to us for further details or a demonstration of the Spectrophotometer PMQ II. **Complete service facilities available.**



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