

Spectrometer Goniometer



Model : HO-SP-RE-01

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The Goniometer, Model : **HO-SP-RE-01** has user friendly and open design as explicit from the picture. The instrument makes use of rail and carriage system for mounting various modules such as light source, adjustable slit and collimator. Model : **HO-SP-RE-02** has a conventional design. A precision rotation stage with coarse and fine movement holds the telescope. There are two rotation stages, concentrically assembled, one for telescope and other for the sample. All mechanical components are manufactured either in aluminium alloy or stainless steel.

This goniometer is used for exact measurement of optical data on prisms. It can also be used as a spectroscope for qualitative examination and measurement of emission and absorption spectra. The diffraction angle of plane grating and holographic grating can also be measured. The measurement of refractive index is carried out with a dispersion prism made from the material to be tested. For measurement of fluids, a hollow prism is used which is filled with the fluid. The optical parameters like optical density, reflectivity, transitivity, absorption, polarization angle etc. are determined with the help of a photo diode detector. Various accessories and mounting options are available.

Open and flexible design of these instruments facilitates quick modification of the instrument for custom applications. This goniometer can also be used for checking reflection & transmission ratios of thin films coated on glass substrates.

Features

The 216mm graduated disc features a 360° scale with divisions of 0.5° and two vernier scales separated by 180°. The vernier scale has an accuracy of 1 angular minute. The prism table is removable and features three point bearing leveling screws and 50mm height adjustments. Prism, prism holder and diffraction grating holder are included in the supply list.

Spectroscopy

Emission spectrum
Absorption spectrum
R.P of grating & prisms
Dichroism etc.

Diffraction

Determination of
Groove spacing
Wavelength
Biprism diffraction etc.

Measuring Optical Parameters like

Optical density
Reflectivity
Transitivity
Absorption
Polarization angle etc.

Detector output measurement unit
for spectrometer goniometer

Specifications

Range : 1 mA - 200 mA
Detector : Photo transistor.



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Model No:	Compatible Rail
Telescope magnification	10 x
Diameter of graduated disc	216 mm
Resolution of rotation stage	1 arc minute
Diameter of the prism table	100 mm
Prism table height adjustment	50 mm
Focal length of the ocular tube	200 mm
SlitMicrometer controlled, continuously variable	0-3mm



Contact Us

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