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Model SG1800 Spectrometer-Goniometer

For the precise determination of optical data of prisms

Krüss offers the model SG1800 Spectrometer-Goniometer, for the exact measurement of optical data on prisms. Reflection angle and deflection angle are measurable. From the measured values, for example, the inner angle of a prism or the refractive index of the material used can be determined. It can also be used as a spectroscope, for qualitative examination and measurement of emission and absorption spectra. The observation tube has combined coarse and fine drives, infinitely variable, cross-hairs, eyepiece vernier accuracy. The collimator and the telescope have a focal length of 178mm and a free aperture of 32mm. The Prism offers Flint glass (60deg) with a dispersion angle C-F=2deg. The collimator is a symmetric precision slit of hardened steel. Accessories include prism, Rowland grating and holder, scale illumination, lamp, ocular and spectra sheet.Infinitely adjustable

- With crosshair eyepiece and vernier reading accuracy of 1angular minute
- Flint glass prism
- High-quality collimator made of hardened steel with symmetrical precision gap
- Extensive accessories

Model specifications

	SG1800
Observation tube	infinitely variable
Ocular	crosshairs
Scale reading precision	1 angle min.
Objective	field number 18, 160 mm focal distance
Prism	Flint glass (60°)
Dispersion angle	C - F = 2°
Slit tube	Symmetric precision slit of hardened steel
Height of the optical axis above the specimen table	0 - 20 mm
Suitable height of the specimen	5 - 50 mm
Focal length collimator	178 mm
Focal length telescope	178 mm
Magnification eyepiece	15x
Free aperture	32 mm
Width entrance slit	0 - 2 mm
Diameter specimen table	85,5 mm
Diameter of the scale	176 mm
Resolution	0°0'30"
Achievable measuring accuracy	± 1'
Scope of delivery	Main body incl. collimator, telescope, stage for the specimen Prism holder with retaining screws Holder for the diffraction grating Prisms Magnifying glass for the better readability of the scale Dust case