

# Model D Polarimeter

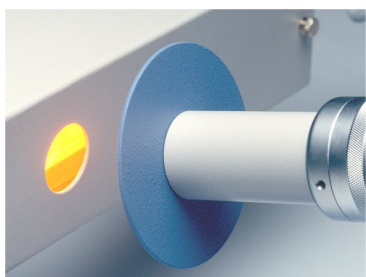


The Model D Polarimeter is a high quality instrument capable of measuring the rotation of optically active samples.

The well-known variable half wave plate effect is used to obtain a balance between the two halves of a circle when viewed through an eyepiece. The reading is then taken from the scale. For dark samples, which absorb light, the Model D Polarimeter has provision for adjustment allowing more light to pass through the sample.

The instrument accepts sample tubes of lengths of up to 220mm and is used for measuring concentrations and optical rotations in the food, sugar, flavours, fragrance, pharmaceutical and chemical industries, where throughput of sample is relatively low. The Model D Polarimeter is also extensively used in schools and colleges as an educational tool.

There are a number of accessories that may be required when using the Model D Polarimeter including light sources, sample tubes, temperature control equipment and calibration standards. For calibration purposes, verification of the Model D Polarimeter can be made against fixed value quartz control plates and depending on the area of interest, a choice can be made from the two plates listed below.



Specification		
	Angular (°A)	ISS (°Z)
Range	0-360	-30 to +130
Sub Division	1	1
Resolution by Micrometer Drum	0.05	0.1
Accuracy by estimation	±0.02	±0.05

Order Code	Description
31-01	Model D Polarimeter with angular and sugar scales for tubes up to 220mm in length with variable half shadow, including one 200mm sample tube.
59-01	Sodium Lamp Outfit (Free Standing)
59-06	230V ~ ±10%, 50/60Hz 110V ~ ±10%, 50/60Hz
59-03	Sodium Lamp Outfit specific to Model D
59-08	230V ~ ±10%, 50/60Hz 110V ~ ±10%, 50/60Hz
34-20	Quartz Control Plate approx. 34 °A / 100 °Z
34-21	Quartz Control Plate approx. 5 °A / 15 °Z

Shipping Specifications		
Model D Polarimeter (without Sodium Lamp): Gross Weight: 12.5 kilos Net Weight: 9.5 kilos Overall Size: 71x47x34cm	Sodium Lamp Outfit 230V ~ ±10%, 50/60Hz Gross Weight: 11.0 kilos Net Weight 9.1 kilos Overall Size: 70x45x27cm	Sodium Lamp Outfit 110V ~ ±10%, 50/60Hz Gross Weight 13.0 kilos Net Weight 10.0 kilos Overall Size: 70x45x27cm

*Bellingham + Stanley Ltd. pursues a policy of continuous product development and improvement and, as such, information given on this Data Sheet may be updated or withdrawn without notice.*



Bellingham + Stanley Ltd. operates a Quality Management System complying with BS EN ISO 9001:2000 (Certificate No. LRQ 0963791)



These products comply with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC



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