



# Model D7 Polarimeter

FOR ACADEMIA, RESEARCH AND GENERAL USE

For over 40-years, the Model D Polarimeter and sodium lamp outfit has been the primary choice of leading industrial and academic institutions throughout the world, offering practical assessment of optically active materials combined with high accuracy measurement.

Changes in legislation, particularly within the sugar and pharmaceutical sectors, has demanded a shift towards digital instrumentation, however, the need for a high quality optical polarimeter is still paramount where circumstances dictate that an optical instrument should be used. Such applications include use in contract laboratories of low sample throughput and of course the continued use in both physics and chemistry departments within the education field.

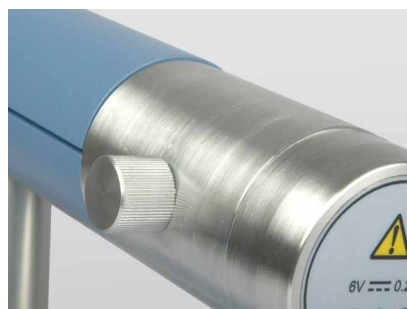
Bellingham + Stanley has updated the original Model to meet the requirements of 21st Century applications. instrument body has been replaced with a new 'low weight' component that reduces shipping costs, significantly important where a number of instruments are supplied to one destination and the sodium lamp has been replaced with a lightweight, low cost LED light source with an interference filter and integral intensity control. Retaining the measurement specification of the original Model D, the new D7 provides the user with one of the highest specification optical measurements of rotation at a fraction of the cost of its predecessor. Limited warranty is 24 months.

- LED Light Source
- Intensity Control
- Dual Range
- 0-360° Angular and -30 to 130 °Z (Sugar)



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# Model D7 Polarimeter



## Specifications

Scale	0-360 °A / -30 to 130 °Z
Sub Division (scale resolution)	1 °A / 1 °Z
Resolution (micrometer drum)	0.05 / 0.1
Precision (estimation)	±0.02 / ±0.05
Operating temperature	5-45 °C
Power supply	90-230V~, 50/60Hz

Code	Description
31-02	Model D7 Polarimeter with integral LED light source, intensity control, 200mm "bubble type" sample tube, power supply and instructions for use

## Polarimeter Tubes

Code	Description	Length	Diameter	Volumen/100
35-29	Bubble - to clear bubble from field of view	100		
35-30	Most suited to Model D7	200	8	5
35-28		50-200		
35-46	Centre fill - for easy filling and placement of ADP	100		
35-47	temperature sensor	200	8	5
35-45		50-200		
35-57	Cup - funnel shaped centre fill for viscous samples	100		
35-58		200	8	5
35-56		50-200		
35-10	Metal end - centre fill for aggressive chemicals and solvents	100	8	5
35-11		200		
36-77	Centre fill - water jacket for temperature controlled	100		
36-78	measurements	200	8	5
35-71	Low volume - stainless steel - Leur	50	5	2
35-76	Low volume - stainless steel - Leur - water jacket	50	5	2

All lengths in millimetres. Volumes in millilitres. All collar sizes 30mm diameter

## Quartz Plates

Code	Description	Value
34-20	Standard Quartz Control Plate supplied with a	+100 °Z (+34.6 °A)
34-21	Certificate of Conformity at 589nm	+15 °Z (+5.2 °A)
34-22		-30 °Z (-10.4 °A)
90-803	UKAS Certificate of Calibration for Quartz Control Plate at 589nm and 20°C	

## Weights and Dimensions

Weight (gross)	8.3 kg
Weight (net)	5.5 kg
Dimensions (packed):	55 x 39 x 28 cm



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**International**  
Longfield Road  
Tunbridge Wells, Kent  
TN2 3EY  
United Kingdom  
Tel: +44 (0) 1892 500400  
sales.bs.uk@xylem.com

**United States**  
90 Horizon Drive  
Suwanee  
GA 30024  
United States of America  
Tel: 678 804 5730  
Fax: 678 804 5729  
sales.bs.us@xylem.com

[www.bellinghamandstanley.com](http://www.bellinghamandstanley.com)