



**Name: Single Wavelength Polarimeter with Temperature control**

**Model: ADP450**

**Brand: Bellingham+Stanley**

**Country of Origin: UK**

**Description:**

Single wavelength polarimeter with XPC temperature control and low maintenance LED light source. Suitable for sugar, food, chemical and pharmaceutical industries.

XPC Temperature Control

Up to 200mm tube length

Standard ICUMSA tubes

Continuous or single-shot readings

Conforms to USP/EP/BP/JP (@589nm)

The ADP400 polarimeters are available with or without XPC – Xylem's patented internal Peltier temperature control system. Both models use standard ICUMSA polarimeter tubes with a maximum length of 200mm.

These polarimeters contain proven optics, pioneered by Bellingham + Stanley, featuring "no maintenance" yellow LED and interference filter. Combined with a photodiode detector these technologies allow for the reading of samples of up to 3.0 OD at the commonly used sodium (589nm) wavelength. ADP400 polarimeters feature angular and sugar scales (ISS) and can be programmed with user scales as well as industry standard methods for displaying invert sugar, inversion (A-B) or when applying other factors such as tube length and concentration, Specific Rotation (or concentration when entering specific rotation). This flexibility makes them ideal for use within laboratories where compliance with Pharmacopoeia is required.

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**Office address:**

31, Manun Plaza (Ground, 1st & 2nd Floor)  
Shahid Nazrul Islam Sharak, Tikatuli, Dhaka-1203

**Specification:**

<b>Scales</b>	
Angular Degrees (°A)	-355 to +355
International Sugar Scale (°Z)	-225 to +225
User Scales/Methods	100
<b>Resolution</b>	
Angular Degrees (°A)	0.01/0.001 (selectable)
International Sugar Scale (°Z)	
<b>Accuracy</b>	
Angular Degrees (°A)	± 0.010
International Sugar Scale (°Z)	± 0.030
<b>Precision (Reproducibility)*</b>	
Angular Degrees (°A)	± 0.002
International Sugar Scale (°Z)	± 0.005
User Scales & Methods Library	PHR-MEAN statistical, Specific Rotation, Concentration, Inversion (A-B), Invert Sugar, User Defined.
Reading Time	Continuous measurement and display or single shot (selectable)
Tube Length	10 to 200mm
Sample Illumination	Sodium (589nm) Light Emitting Diode (100,000+ hours)
Beam Diameter	4mm
Optical Density	0.0 to 3.0 OD
Instrument Housing	Polyurethane foam with aluminium base
Interfaces	1 x USB (A), 1 x USB (B), 1 x Ethernet, RS232 via USB adaptor (optional accessory)
Power	Instrument: 24 V DC, ±5%, <2A
	External PSU: 100-240V, 50-60Hz (supplied)
Humidity Range	<90% RH (non condensing)

<b>Temperature</b>	<b>ADP430</b>	<b>ADP450 (Peltier)</b>
Control	None or external waterbath	Patented XPC Technology
Compensation	None, ICUMSA, Quartz or User Defined	
Measuring Range	5-40 °C	15-35 °C
Sensor Accuracy	± 0.1 °C	± 0.1 °C
Stability	Waterbath dependent	± 0.2 °C

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Stability Checks	None/delay on single-shot	None/delay or SMART
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**Warranty:** 01 (One) year warranty from the date of installation.

Installation & training: Free installation, operation & maintenance training will be provided at your laboratory site.

**Paradise Sales Terms & Condition:**

- **Delivery:** From ready stock / within 07 (seven) days. Without ready stock 6-8 weeks, after work order.
- **Payment:** By cash/Cheque

**Contacts:**

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01713-034889

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