

# POLAX-2L

**Cat.No.5223**

*Angle of Rotation, International Sugar Scale  
is Indicated Digitally!*

*Temperature Indication Function  
Easy Operating & Accurate Measurement*

### Long lasting LED

“LED” which has a long life and lights overwhelmingly fast in comparison with the sodium lamp, is used as a light source. The wavelength of 589nm equivalent to D-line of the sodium is ensured by using interference filter together with “LED”.

### Digital display

Look through the eyepiece and match the brightness at the left and right of the visual field with push-button switches. Measurement value is indicated digitally on the display panel. Moreover, the temperature of the sample chamber can be indicated on the display panel by pressing the shift/temp switch.

### Smooth measurements

Push-button switches are used to rotate the analyzer. In addition to the right(+) and left(-) switches, the POLAX-2L has the shift/temp switch with which the rotation speed can be changed in two steps.



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## APPLICATIONS

- Polarimeter is widely used in the pharmaceutical and chemical industries for quality control. Approximately 60 types of chemical materials for measuring "Angle of Rotation" in the list of Pharmacopeia. Including ascorbic acid, testosterone, and cocaine.
- Many optically active materials used in food additives, flavoring and perfumes, the polarimetric analysis is widely applied.
- International sugar scale ( $^{\circ}Z$ ) is used for sugar measurement and polarimeter is essential instruments for this procedure.
- Polarimeter is widely used for educational purposes in the field of "Physics" and "Applied science" course for understanding polarized light, optical rotation, optical active substances, and optical activity.



## SPECIFICATIONS

<b>Measurement range</b>	Angle of rotation: $-179.95^{\circ}$ to $+180.00^{\circ}$ International sugar scale: $-130.0^{\circ}Z$ to $+130.0^{\circ}Z$
<b>Minimum indication</b>	Angle of rotation: $0.05^{\circ}$ International sugar scale: $0.1^{\circ}Z$
<b>Measurement accuracy</b>	Angle of rotation: $\pm 0.10^{\circ}$
<b>Measurement temperature range</b>	5 to $40^{\circ}C$
<b>Light source</b>	LED with interference filter (589nm)
<b>Accessories</b>	Observation tubes : 100mm tube and 200mm tube / each
<b>Power supply</b>	AC100 to 240V, 50/60Hz (power consumption: 35VA)
<b>Operation switches</b>	<p><math>\triangle R \oplus</math>=Right rotation switch : Rotates the analyzer slowly to the right  <math>\blacktriangledown L \ominus</math>=Left rotation switch : Rotates the analyzer slowly to the left  <math>\blacklozenge</math> temp=Shift/ temp switch :</p> <p>Pressing this switch simultaneously with either <math>\oplus</math> switch or the <math>\ominus</math> switch will provide a faster rotation (in the shift mode).  * When this switch is pressed for 2 seconds or more, the temperature of the sample chamber is indicated on the display panel (until the switch is released from pressing).</p>
<b>Dimensions and weight</b>	43×22×30cm, 11.5kg (Main Unit Only)

\* The observation tube (length:100mm, liquid capacity:1 to 1.5ml) for small volume of sample is available as an option.

### EXPLANATION OF ICONS

Icons for functions, specifications and scales have been added to this catalog.



\*Digital display  
\*Affichage numérique  
\*Digital Anzeige  
\*Display digitale  
\*Pantalla digital  
\*数字顯示



\* AC outlet(AC100 to 240V)  
\* Alimentation secteur(CA 100 à 240 V)  
\* AC Ausgang (AC 100 bis 240V)  
\* Uscita AC (AC 100 240V )  
\* Conexión a 240V CA  
\* AC插座(AC 100至240V)

All ATAGO polarimeters are designed and manufactured in Japan.



ATAGO products comply with HACCP, GMP, and GLP system standards.

## ATAGO CO., LTD.

Headquarters: The Front Tower Shiba Koen, 23rd Floor  
2-6-3 Shiba-koen, Minato-ku, Tokyo 105-0011, Japan  
TEL : 81-3-3431-1943 FAX : 81-3-3431-1945  
overseas@atago.net http://www.atago.net/



\* Specifications and appearance are subject to change without notice.

**Distribuito da:**  
Zetalab s.r.l. - Via Castelfidardo, 11  
35122 Padova  
Tel. 049/2021144 - Fax 049/2021143  
www.zetalab.it - email: info@zetalab.it