

## Automatic Polarimeter

Measure the angle of rotation, International Sugar Scale, specific optical rotation, concentration and purity

- Fully automatic, precision accuracy with the touch of a button
- Store up to 30 of the most recent measurement readings

Eliminate the need for manual adjustments with this fully automatic polarimeter. Selectable measurement readings allow for angle of rotation, International Sugar Scale, specific optical rotation, concentration and purity. Measure the specific optical rotation of medical agents, concentration of chemical compositions and fragrances with this unit. Determine the purity of sugar by the International Sugar Scale and identify the attributes of inverted sugar easily. This fully automatic unit is ideal for the pharmaceutical, chemical, food and cosmetic industries.

Operation is simple, place a sample filled tube in the automatic polarimeter and press the start key. The measurement is displayed instantly on the soft color LCD with backlight display. The easy to read graphic display indicates the conformity of measurement values for all measurements with limit settings. Out of range measurements are instantly displayed for operator attention. The extended memory function allows for the storage of up to 30 of the most recent measurement readings. RS-232 provides the ability to download measurements to your computer or printer.

Automatic temperature compensation eliminates the need to closely monitor sample temperatures before and during your measurement process. The "zero setting" can be conducted by pressing the zero key. The light source is provided by a single halogen lamp with a 589 nm wavelength filter. Date, time, mode number, scale name, tube size and length, measurement reading and temperature are all displayed. Calibration is achieved by measuring a standard quartz plate or by using reference samples. This unit features a compact, low profile design that is ideal for optimizing workspace.



81200-15

**What's included:** one each 100-mm and 200-mm sample tubes, and 7-ft power cord.

### Specifications and Ordering Information



**Power:** 100 to 240 VAC, 50/60 Hz

**Tube length:** up to 200 mm

**Light source:** halogen lamp with 589 nm filter

**Display:** color LCD with backlight  
**Dimensions:** 19"W x 6 7/8"H x 11 1/2" D

Cat. no.	Range	Resolution	Accuracy	Price
<a href="#">KH-81200-15</a>	AOR:* -89.99 to +89.99° ISS: <sup>†</sup> -130.00 to +130.00 °Z	AOR:* 0.01° ISS: 0.01°Z	AOR:* ±0.01° ISS: <sup>†</sup> ±0.03°Z	

\*Angle of rotation

<sup>†</sup>International Sugar Scale

[KH-81200-50](#) Replacement tube; 100-mm, 5 mL

[KH-81200-52](#) Replacement tube; 200-mm, 9 mL

## Automatic Polarimeter

Measure precise sample concentrations and optical rotation

- Fully automatic unit eliminates the need for manual adjustments

Utilize this fully automatic digital polarimeter for measuring the rotation of optically active samples such as sugars, food additives or even chemicals used in pharmaceuticals. Select the control for automatic read, zero setting, print as well as scale change—angular degree (°A) or international sugar scale (°Z)—with the simple touch of a button. The digitally displayed results can be printed out or directly sent to a computer for interpretation. In addition to the reading, the instrument displays the mode: active scale, automatic temperature compensation status, reading stability status, optical density of the sample as well as the temperature. This unit offers a reading response that can be set to slow (approx. 30 seconds), where high accuracy is required and the optical density of the sample is high, or fast (approx. 5 seconds), where a low resolution (±0.1°) is acceptable. The 589 nm LED light source with 4-mm diameter beam and external power supply minimize heat generated within the instrument. Unit comes with one 200 mm straight center fill tube; additional tube sizes and types can be ordered separately.

**What's included:** one straight center filling tube (200 mm), power supply, and external temperature sensor.

### Specifications



**Power:** 90 to 230 VAC, 50/60 Hz

**Display:** LCD with backlight

**Light source:** LED with filter for 589 nm

**Dimensions:** 21 3/4" W x 5 3/4" H x 11" D

**Tube length:** up to 200 mm

Cat. no.	Range	Resolution	Accuracy	Price
<a href="#">KH-81250-00</a>	AOR: -355 to 355° ISS: -225 to 225°Z	AOR: 0.01° ISS: 0.01°Z	AOR: ±0.02° ISS: ±0.05°Z	

**New**



High precision accuracy with simple touch-of-a-button control.  
81250-00



### Polarimeter Tubes

Description	100-mm tubes		200-mm tubes	
	Cat. no.	Price	Cat. no.	Price
Standard	<a href="#">KH-81250-20</a>		<a href="#">KH-81250-22</a>	
Center-filling	<a href="#">KH-81250-24</a>		<a href="#">KH-81250-26</a>	
Center-filling, funnel	<a href="#">KH-81250-28</a>		<a href="#">KH-81250-30</a>	