

Refractometer Polarimeter

2 in 1

Display

Purity, International Sugar Scale, Specific Rotation, and Concentration are automatically calculated from the measured refractive index and angle of rotation. Temperature is displayed constantly.

Refractive index and angle of rotation are measured simultaneously. 3mL of liquid is all RePo-1 requires for one swift measurement.



Evaluation
Indicator

Measurement
evaluation is indicated
by green or red light.

Fusion of refractive index and angle of optical rotation - Making the invisible, visible -

Brix alone can only indicate the overall amount of dissolved solids in a solution. With RePo-1, it is now possible to know the actual quantities of each dissolved solids, such as fructose and glucose content, in a solution.

Measurement in 3 easy steps



1. Fill the sample stage up to the fill line (approx. 3mL).



2. Press START.



3. Measurement is displayed.

Automatically calculated scales

Press "User" to select the desired scale: Purity, International Sugar Scale, Specific Rotation, and Concentration.



A.R. – Angle of Rotation Brix – Brix

User – Factory Setting:
Purity *

*Pressing "User" switches the scale in the following order: Purity → International Sugar Scale → Specific Rotation → Concentration

Specifications

RePo-1 Cat.No.5010

Measurement scales	Angle of Rotation, Brix (%), International Sugar Scale, Temperature (°C, °F)
Measurement readings	Angle of Rotation, Brix (%), Temperature (°C, °F) User (International Sugar Scale/Purity/Specific Rotation/Concentration) Brix (%), Purity, International Sugar Scale with Automatic Temperature Compensation
Measurement range	Angle of Rotation: -5 to +5° International Sugar Scale: -130 to +130°Z Brix (%): 0 to 85% Temperature: 15 to 40°C
Display range	Angle of Rotation: -5.99 to +5.99° Brix (%): -2.0 to 86.6% International Sugar Scale: -130 to +130°Z* Purity: -120 to 120%* Specific Rotation: -999 to +999* Concentration: -2.0 to 999%* Temperature: 14 to 41°C
	<small>*Measurements are round to 1 decimal place up to 99.9 and to a whole number above 100.</small>

Resolution	Angle of Rotation: 0.01° Brix (%): 0.1% International Sugar Scale: 0.1°Z Temperature: 0.1°C
Measurement accuracy	Angle of Rotation: ±0.1° (at 20°C) Brix (%): ±0.2% International Sugar Scale: ±3°Z (at 20°C) Temperature: ±1°C
Measurement time	12 seconds
Ambient temperature	15 to 40°C
Storage temperature	0 to 65°C
Temperature compensation range	Brix (%): 15 to 40°C Purity: 18 to 40°C International Sugar Scale: 18 to 40°C
Sample volume	3ml
Measurement wavelength	589nm (near D-line)
Light source	LED
Power supply	Size AAA alkaline battery × 4
International protection class	IP64
Dimensions and weight	101×160×38mm, 325g (main unit only)



Application Examples

- Sugar industries (sugar manufactures and refineries)
- Analyzing inverted sugar syrups
- Analyzing fragrances
- Honey industries
 - Investigating how fast different honey crystallizes by determining the fructose and glucose content.
 - Researching honey collected from the same district, or honey collected from the same flower.

Feel free to contact us on other possible fields of application

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

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* Specifications and appearance are subject to change without notice.

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