# Catago® Refractometer Polarimeter

#### Display

ATAGE

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

#### 2 in 1

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.

## Portable Refracto-Polarimeter RePo-1

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### A fusion of index of refraction 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 measured 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.

Measurement Evaluation Indicator

Measurements are evaluated against pre-set tolerance

limits and the result is indicated by green or red light. (Upper and lower tolerance limits must be set in advance to using this function)

Red light

[Outside toler

#### 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

IX

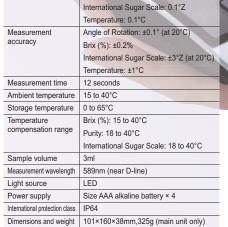
User – Factory Setting: Purity \*

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

#### Specifications

#### RePo-1 Cat.No.5010

Measurement scales	Angle of Rotation, Brix (%), International Sugar Scale,	Resolution
	Temperature (°C, °F)	
Measurement readings	Angle of Rotation, Brix (%),Temperature (°C, °F)	
	User (International Sugar Scale/Purity/Specific	
	Rotation/Concentration)	Measurem accuracy
	Brix (%), Purity, International Sugar Scale with Automatic	
	Temperature Compensation	
Measurement range	Angle of Rotation: -5 to +5°	
	International Sugar Scale: -130 to +130°Z	Measuren
	Brix (%): 0 to 85%	Ambient te
	Temperature: 15 to 40°C	Storage te
Display range	Angle of Rotation: -5.99 to +5.99°	Temperati
	Brix (%): -2.0 to 86.6%	compensa
	International Sugar Scale: -130 to +130°Z*	
	Purity: -120 to 120%*	Sample vo
	Specific Rotation: -999 to +999*	Measureme
	Concentration: -2.0 to 999%*	Light sour
	Temperature: 14 to 41°C	Power sup
	*Measurements are round to 1 decimal place up to 99.9	International
	and to a whole number above 100.	Dimension



Angle of Rotation: 0.01 Brix (%): 0.1%

Green light

[Within tolerance]

#### **Fields of Application**

• 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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