Package RePo-1 Type A

Recommended for sugar industry

A package for the RePo-1 that includes syringes and single-use, disposable filters. By using a syringe and a disposable filter, it is possible to measure stabilized values of substances such as raw sugar and other materials. These accessories are also sold separately

- RePo-1 (Main unit)
- Beaker 100mL • Syringe Filter Orange 45 (50pcs)







Fill the sample stage up to the



Press START.



Measurement is displayed.

Optional Accessories

Part Name	Compatible models
RE-99110	Standard liquid Repo-series (approx. 7mL)
RE-79000	MAGIC™ for RePo
RE-79423	Beaker 100mL
RE-79420	Syringe Filter Orange 45 (100pcs)
RE-79421	Syringe 20mL (3pcs)
RE-79422	Easy Filter (100pcs)



MAGIC™ for RePo (Anti-volatile sample cover.)

Common Specifications

Measurement Method

Measurement Scale	AR, Brix, Temp		
Measurement Readings	AR, Brix, Temp, Brix (%): with ATC		
Measurement Range	AR Brix Temp		
Display Range	AR Brix Temp	: -2.0 to 86.6%	
Resolution		: 0.01° : 0.1% : 0.1°C	
Measurement Accuracy	AR Brix Temp	: ±0.1° (at 20°C) : ±0.2% : ±1.0°C	
Repeatability	AR Brix	: ±0.05° (at 20°C) : ±0.1%	

Measurement Time	12 seconds
Ambient Temperature	15 to 40°C
Storage Environment Temperature	0 to 65°C
Temperature Compensation Range	Brix:15 to 40°C
Sample Volume	3mL
Measurement Wavelength	589nm (equivalent to the sodium-D line spectrum)
Light Source	LED
Power Supply	Size AAA alkaline battery × 4
International Protection Class	IP67
Dimensions & Weight	101×160×38mm, 325g (Main unit only)

¹ These ranges are measured by the device's 20mm light path. These are convertible to below ranges: -25.00° to +25.00° with a 100mm observation tube -50.00° to +50.00° with a 200mm observation tube. Any sample that has Angle of Rotation within above ranges can be measured by RePo units

Specifications

Cat.No.5010	Cat.No.5012	RePo-3 Cat.No.5013		RePo-5 Cat.No.5015
ISS, Purity, Conc, SR	Fructose % of HFCS	Invert ratio % of Invert Sugar	Fructose % of Honey, Honey Moisture %	RI, Conc, SR
User (ISS/ Purity/ SR/ Conc) Purity/ ISS: with ATC	User (Fructose %)	User (Invert ratio %)	User (Fructose %, Honey Moisture %)	User (RI/ SR/ Conc)
ISS :-130 to +130°Z	Fructose %: 0.0 to 99.9%	Invert ratio % : 0.0 to 99.9%	Fructose %: 0.0 to 99.9% Honey Moisture %: 13.0 to 30.0%	RI : 1.3306 to 1.5050
ISS :-130 to +130°Z *2 Purity :-120 to 120% *2 SR :-999 to +999° *2 Conc :-2.0 to 999% *2	Fructose %: -2.0 to 102%	Invert ratio % : -2.0 to 102%	Fructose %: -2.0 to 102% Honey Moisture %: 12.5 to 30.5%	RI : 1.3278 to 1.5093 SR :-999 to +999° *2 Conc :-2.0 to 999% *2
ISS : 0.1°Z	Fructose %: 0.1%	Invert ratio % : 0.1%	Fructose % : 0.1% Honey Moisture % : 0.1%	RI : 0.0001
ISS : ±3.0°Z (at 20°C)	_		Honey Moisture % : ±0.2%	RI : ±0.0002 (at 20°C)
ISS : ±1.5°Z (at 20°C)			Honey Moisture % : ±0.2%	RI : ±0.0002 (at 20°C)
ISS/ Purity: 18 to 40°C	_		Honey Moisture % : 15 to 40°C	_
	User (ISS/ Purity/ SR/ Conc) Purity/ ISS: with ATC ISS: -130 to +130°Z ISS: -130 to +130°Z ISS: -130 to +130°Z ISS: -120 to 120% '2 SR: -999 to +999° '2 Conc: -2.0 to 999% '2 ISS: -2.0 to 999% '2 ISS: ±3.0°Z (at 20°C) ISS: ±1.5°Z (at 20°C) ISS/ Purity: 18 to 40°C	User (ISS/ Purity/ SR/ Conc) Purity/ ISS: with ATC ISS :-130 to +130°Z Fructose % : 0.0 to 99.9% ISS :-130 to +130°Z Fructose % : -2.0 to 102% ISS :-130 to +130°Z Fructose % : -2.0 to 102% ISS :-999 to +999° '2 Conc :-2.0 to 999% '2 ISS : 0.1°Z Fructose % : 0.1% ISS :+3.0°Z (at 20°C) ISS :+1.5°Z (at 20°C) ISS :+1.5°Z (at 20°C)	User (ISS/ Purity/ SR/ Conc) Purity/ ISS: with ATC ISS :-130 to +130°Z Fructose % : 0.0 to 99.9% Invert ratio % : 0.0 to 99.9% Invert ratio % : 0.0 to 99.9% Invert ratio % : -2.0 to 102% Invert ratio % : 0.1% Invert ratio % : 0.1%	Honey Moisture % User (INvert ratio %) User (Fructose %, Honey Moisture %) User (Fructose % : 0.0 to 99.9%

Reference : AR = Angle of Rotation, SR = Specific Rotation, ISS = International Sugar Scale, Temp = Temperature, Conc = Concentration, RI = Refractive Index, ATC = Automatic Temperature Compensation

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

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All ATAGO products are designed and manufactured in Japan.

* Specifications and appearance are subject to change without notice.

EATAGO® Refractometer arimeter

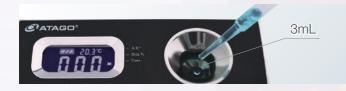


Portable Refracto-Polarimeter RePo series

Simultaneous Measurement of Refractive Index and Angle of Rotation - Making the Invisible, Visible

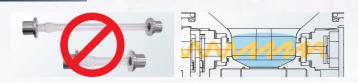
Economical -Only a Small Amount of Sample Required

The sample amount is a mere 3mL. Simultaneously measures refractive index and angle of rotation. Compared to standard 100mm and 200mm observation tubes, much less volume of liquid (sample) is needed to complete measurements.



Absolutely No Observation Tubes **Necessary**

The RePo requires absolutely no observation tubes whatsoever. No more hassling with sample prep, avoiding air bubbles, and washing out thin, narrow observation tubes.





RePo-1

Standard model of the RePo Series. Toggle through Angle of Rotation, Brix, Purity, International Sugar Scale, Specific Rotation and temperature displays simply by pressing a button.



The World's Smallest, Portable Device

A single device that can measure refractive index and angle of rotation. Compared to other polarimeters up until now, it is 1/20th the size, compact, and fits in the palm of your hand. Its portability means you can measure anywhere; you are no longer limited to a designated spot.

Compatible With All Kinds of Samples

Samples with a high angle of rotation can be measured by diluting them.

HFCS RePo-2

HFCS (high-fructose corn syrup) is a liquid sweetener mixture of glucose and fructose. As it possesses a distinctive quality in which sweetness levels increase under low temperatures, it is used in soft drinks and frozen desserts. The RePo-2 displays the amount of fructose (%) contained in HFCS.













Inverted Sugar RePo-3



glucose and fructose. In contrast to sucrose and glucose, which exhibit slight dextrorotation, fructose has strong levorotation. This instrument displays the amount of sucrose that was converted as an inverted ratio (%).







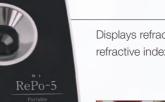
Honey RePo-4

In Europe, purity analysis through angle of rotation is designated per honey and food standards. This instrument measures the amount of fructose (%) among the sugars contained in the honey and honey moisture (%), which is









RePo-5

Displays refractive index. This model can display angle of rotation and refractive index, making it ideal for a wide range of samples and industries.





