

# Introducing the new RX-5000X-Plus!

The new RX-5000X-Plus features improved accuracy over the RX-5000 $\alpha$ , with Brix  $\pm 0.010$  and nD  $\pm 0.00002$ , making it the most accurate full-range refractometer in the world. Brix value displayed to the 3rd decimal place.

## Features

- High accuracy utilizing the latest technological advancements.
- Built-in Peltier thermo-module maintains a constant sample temperature, eliminating the need for an external water-bath.
- Measurement begins automatically after the sample reaches the user-set targeted temperature.
- 60 user-programmable scales.
- By setting upper and lower standard values, a graphic upper and lower limit bar can be displayed with the measured value.
- Manual calibration function to compensate for differences between standard liquids and measured values within a certain range.
- The built-in memory will recall the last 30 measurement values for easy viewing, printing and/or exporting to a computer.
- User-friendly operation.



**RX-5000X-Plus**

Cat.No.3266

Automatic Digital Refractometer

## Applications

## nD

### Refractive Index

Measure Refractive Index (nD) of flavors, organic solvents, oils, liquid medicines, and more!

Liquid medicines	Cooking oil
Liquid rubber	Concentrated solutions
Methylene chloride	Spice essential oil
Chemical agents	Oil refinery production
Plasticizer	Silicon oil
Chinese herbal medicine	Animal oil and fat
Diesel oil	Polyether fluid
Cosmetics	Polymer fluids
Gel solutions	Sodium Silicate
Crude oil	Organic sulfur compound
Industrial chemicals	Organic solvent (Toluene)
Synthetic resin	
High polymers	
Fragrance	
Citrus oil	
Heavy oil	
Plastic liquid solution	
Vegetable fat and oil	

etc.

## Brix

Measure Brix of soft drinks, fruit juices, liquid sugars, seasonings, and more!

Corn syrup	Seasoning liquid
Liquid sugar	Seasoning soy sauce
Liquid egg	Soybean milk
Fruit concentrates	Waste liquid of sugar
Fruit puree	Tomato juice
Canned syrup	Milk drinks
Glucose	Honey
Ketchup	Fermentation liquor
English tea	Pickling solution
Coffee, Cocoa	Starch syrup
Condensed milk	Sweet syrup
Jam	Gelatin
Soy sauce	
Vinegar	
Starch	
Soft drinks	
Sauce (Various)	
Tea drinks	

etc.

## User Scale

Measure concentration of metalworking fluid, water-soluble cleaning solution, water-soluble liquid, and more!

DMF	Sodium hydroxide
IPA	Soluble cutting oil
PVA	Citric acid, acetic acid
Amino acid	Glycerin
Ammonia	Lubricating oil
Ethanol	Tobacco leaf extract
Ethylene glycol	Sodium carbonate
Propylene glycol	Antifreeze agents
Liquid starch	Urine
Water-soluble cleaning solution	Broth
Coolant solution	Injection solution
Calcium chloride	Spinning solutions
Sodium chloride solution	Rust inhibitor
Saltwater	Formalin
Surfactants	Fire extinguishing solution
Hydrogen peroxide solution	Metalworking fluid
	Cupric sulfate

etc.

## Specifications

**RX-5000X-Plus** Cat.No.3266

**Measurement scales** : Refractive Index (nD),  
Brix (Automatic Temperature Compensation), 60 User scales

**Measurement range** : Refractive Index (nD) 1.32700 to 1.58000  
Brix 0.000 to 100.000%

**Minimum indication** : Refractive Index (nD) 0.00001  
Brix 0.005% (The third decimal place is 0 or 5.)  
Temperature 0.01°C

**Measurement accuracy** : Refractive Index (nD)  $\pm 0.00002$  \* $\pm 0.00001$   
Brix  $\pm 0.010\%$  (※) \* $\pm 0.010\%$  (※)  
Temperature  $\pm 0.05^\circ\text{C}$

**Automatic Temperature Compensation range for Brix** : 5.00 to 60.00°C  
(No lower than the ambient temperature minus 10°C)

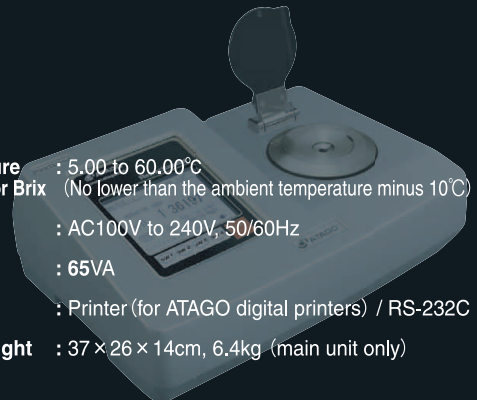
**Power supply** : AC100V to 240V, 50/60Hz

**Power consumption** : 65VA

**Output terminals** : Printer (for ATAGO digital printers) / RS-232C

**Dimensions and weight** : 37 × 26 × 14cm, 6.4kg (main unit only)

\*Repeatability (※) Measuring sucrose solution in MODE-1



## Accessories

#### Volatile sample adapter (RE-56157)

Useful for measuring samples that have a high vaporization rate.



#### Flow cell attachment (RE-56172)

Improve efficiency by eliminating manual cleaning of the sample stage after each



#### Digital Printer DP-RX (Cat.No.3121)

**Printing method** : Thermal dot  
**Power supply** : AC adapter (AC100V to 240V)  
**Power consumption** : 13VA  
**Dimension and weight** : 17X16X7cm, 580g (main unit only)



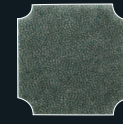
#### Digital Printer DP-RD (Cat.No.3122)

**Printing method** : Dot impact  
**Power supply** : AC adapter (AC100V to 240V)  
**Power consumption** : 7VA  
**Dimension and weight** : 11X18X9cm, 470g (main unit only)



#### Fan filter replacement (RE-58001)

**Filter (pack of 12)**



#### Sucrose solutions - For checking Brix -

**(RE-111001)**  
Sucrose solution  
10% ( $\pm 0.01\%$ )

**(RE-113001)**  
Sucrose solution  
30% ( $\pm 0.01\%$ )

**(RE-115002)**  
Sucrose solution  
50% ( $\pm 0.02\%$ )



All ATAGO refractometers are designed and manufactured in Japan.

**HACCP GMP GLP**

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

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※Specifications and appearance are subject to change without notice.