

# The Debut of the RX-5000X-Plus!

The NEW RX-5000X-Plus features improved accuracy over the RX-5000 $\alpha$ , with Brix  $\pm 0.01$  and nD  $\pm 0.00002$ .

## Features

- High accuracy with the latest technology.
- Built-in Peltier thermo-module maintains a constant measuring temperature eliminating the need for an external water-bath.
- Measurement begins automatically after the sample reaches the set targeted temperature.
- 60 User-programmable scales available.
- By setting upper and lower standard values, a graphic upper and lower limit bar can be displayed with the measured value.
- Manual calibration is possible to compensate for difference 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

# Application

## nD Refractive Index

Measure Refractive Index (nD) for flavors, organic solvents, oils, liquid medicines, etc.

Medical liquids	Cooking oil
Liquid rubber	Concentrated solutions
Methylene chloride	Spice essential oil
Chemical agents	Oil refinery production
Plasticizer	Electronic 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
Concentrated fruit	Waste liquid of sugar
Fruit puree	Tomato juice
Canned syrup	Milk drinks
Glucose	Honey
Ketchup	Fermentation liquor
English tea	Pickle (liquid)
Coffee, Cocoa	Starch syrup
Condensed milk	Sweet syrup
Jam	Gelatin
Soy sauce	
Vinegar	
Starch	
Soft drinks	
Sauce (Various)	
Tea drinks	

etc.

## User Scale

Measuring 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	Juice from tobacco leaves
Ethylene glycol	Sodium carbonate
Propylene glycol	Antifreeze agents
Starch liquid	Urine
Water-soluble cleaning solution	Broth
Coolant solution	Injection solution
Calcium chloride	Spinning liquid
Sodium chloride solution	Rust preventive
Saltwater	Formalin
Surfactants	Fire extinguishing solution
Hydrogen peroxide solution	Metalworking fluid
	Cupric sulfate

etc.

# Specifications

**RX-S000X-Plus** Cat.No.3266

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

**Measurement range** : Refractive Index (nD) 1.32700 to 1.58000  
Brix 0.00 to 100.00%

**Minimum indication** : Refractive Index (nD) 0.00001  
Brix 0.01%, Temperature 0.01°C

**Measurement accuracy** : Refractive Index (nD)  $\pm 0.00002$  \* $\pm 0.00001$   
Brix  $\pm 0.01\%$  (※) \* $\pm 0.01\%$  (※)  
Temperature  $\pm 0.05^\circ\text{C}$

**Automatic Temperature Compensation range for Brix** : 5.00 to 60.00°C  
(the lower limit is the room temperature minus 10°C)

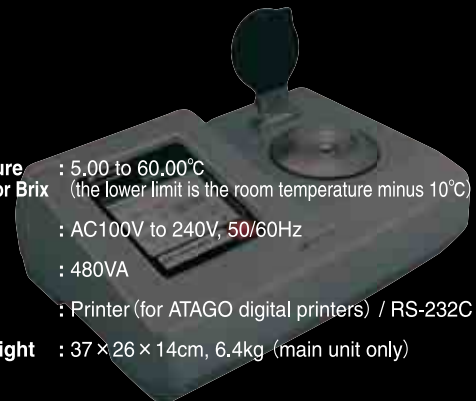
**Power supply** : AC100V to 240V, 50/60Hz

**Power consumption** : 480VA

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

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

\*Repeatability (※) On measurement of Sucrose solution by MODE-1



## Optional

### Volatile sample adapter (RE-56151)

Useful for measuring samples that have a high vaporization rate.



### Flow Cell Attachment (RE-56156)

Improve efficiency by no longer cleaning the sample stage after each measurement!



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

**Printing method** : Thermal dot  
**Power supply** : AC adapter (AC100V)  
**Power consumption** : 13VA  
**Dimension and weight** : 17X18X7cm, 580g (main unit only)



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

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



### Fan filter replacement (RE-58001)

Fan filter replacement (12 sheets)



### 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.