

Best for high refractive index samples!!
Up to 1.7000 in refractive index measurement!
Up to 70 °C in measurement temperature!
Utilizing the state-of-the-art thermo-module!



Automatic Digital Refractometer

RX-7000α

Cat.No.3262

Features

- Wide range!! Refractive index(nD) 1.3250 - 1.7000
- Brix range 0.0 - 95.0%
- Controlled measurement temperature within 5 - 70 degrees C
- Manual calibration
- Flash memory, capable of recalling the last 30 measured values
- Up to 30 user scales can be programed

Application

Refractive index(nD)	Brix measurements	User scale measurements
Light oil Heavy oil Crude oil Industrial medicine Flavor Citrus oil Chemicals Methylene chloride Polymer Vegetable oils and fats Edible oil Animal oils and fats Medicinal liquid Insulating oil etc.	Alcohol drinks Fruit juice Soft drinks Tea drinks Oolong tea Coffee drinks Cocoa drinks Concentrated fruit juice Puree Canned syrup Liquid sugar Glucose Condensed milk Ketchup Soup etc.	DMF IPA PVA Amino acid Alkaline solution Ammonia Ethanol Ethylene glycol Calcium chloride Cesium chloride Seawater Surfactant etc.

Specifications

Cat.No.	: 3262
Measuring system	: Optical-refraction critical-angle detection system
Constant-temperature function	: Built-in thermo-module
Measurement items	: Refractive index(nD), Brix (Automatic temperature compensation), User scale(30 kinds of user scale can be input)
Measurement range	: Refractive index (nD)1.3250 to 1.7000 Brix 0.0 to 95.0%
Minimum indication	: Refractive index (nD): 0.0001/0.00001 by selection Brix : 0.1%/0.01% by selection Temperature : 0.01°C
Measurement accuracy	: Brix : $\pm 0.1\%$ (on measurement of sucrose solution), Refractive index (nD) : ± 0.0001

Types of modes :

- ① **MODE1** : The thermo-module in RX-7000 α operates. If droplets of a sample are applied to the prism and then the start key is pressed, the measurement starts after the sample reaches the target temperature.
- ② **MODE2** : The thermo-module in RX-7000 α operates. If droplets of a sample are applied to the prism and then the start key is pressed, the unit measures the refractive index and temperature at a fixed interval and displays the estimated value at the target temperature.
It takes shorter time to measure in this mode, since the unit does not wait until the sample reaches the target temperature. The measurement accuracy in this mode is lower than that in MODE-1, however.
- ③ **MODE3** : The user can turn on and off the thermo-module in RX- 7000 α freely.
The unit starts measurement immediately after droplets of a sample are applied to the prism and the start switch is pressed, and displays the measured value 4 seconds later. The time to start measurement after the start key is pressed can be delayed manually.

Measurement temperature	: 5.00 to 70.00°C (The lower limit is the room temperature -(minus) 10°C)
Automatic temperature compensation range for Brix	: 5.00 to 70.00°C
Temperature display accuracy	: $\pm 0.05^\circ\text{C}$
Display method	: LCD display (320×240 dpi) with back light
Graphic display	: If top and bottom limits of standard value are set, top and bottom limit bar is displayed together with measured value.
Input of user scale	: If 3 points of a user scale corresponding to therefractive index are inputted, a conversion formula is automatically created.
History function	: Up to 30 latest measurements can be displayed and can be printed.
Zero adjustment	: Zero point is adjusted with distilled water.
Manual calibration	: Indicated value can be changed in a certain range.
Output	: ① Digital Printer DP-62 α (Optional) ② Communication method: RS-232C
Input power source	: AC100 to 240V, 50/60Hz
Power consumption	: 480VA
Light source	: LED (Approximating to wavelength of D line)
Materials	: ① Prism : Artificial sapphire ② Prism stage : SUS 316
Sample volume	: More than 0.1ml
Environmental conditions	: Using temperature : 5 to 40°C, Using humidity : Max. 90%RH, Using altitude (Above sea level) : Max. 5,000m
Dimensions and weight	: 37×26×14cm, 9.0kg

Option

Digital Printer DP-62 α

Cat.No.	: 3019
Input method	: Conforms to Centronics standard (with connection cable)
Type of printer	: Thermal dot matrix printer
Printed items	: Refractive index, Brix, User scale, Temperature, Date, Month, Year, Time
Power supply	: DC8.5V from the RX-7000 α
Power consumption	: 13VA
Dimensions and weight	: 17×16×7cm, 580g



CE **HACCP** **G.M.P.** **G.L.P.** ATAGO products are acknowledged by HACCP, G.M.P. and G.L.P. systems.

* Specifications and design are subject to change without notice.

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