

Digital Refractometer

ATAGO

RX-5000

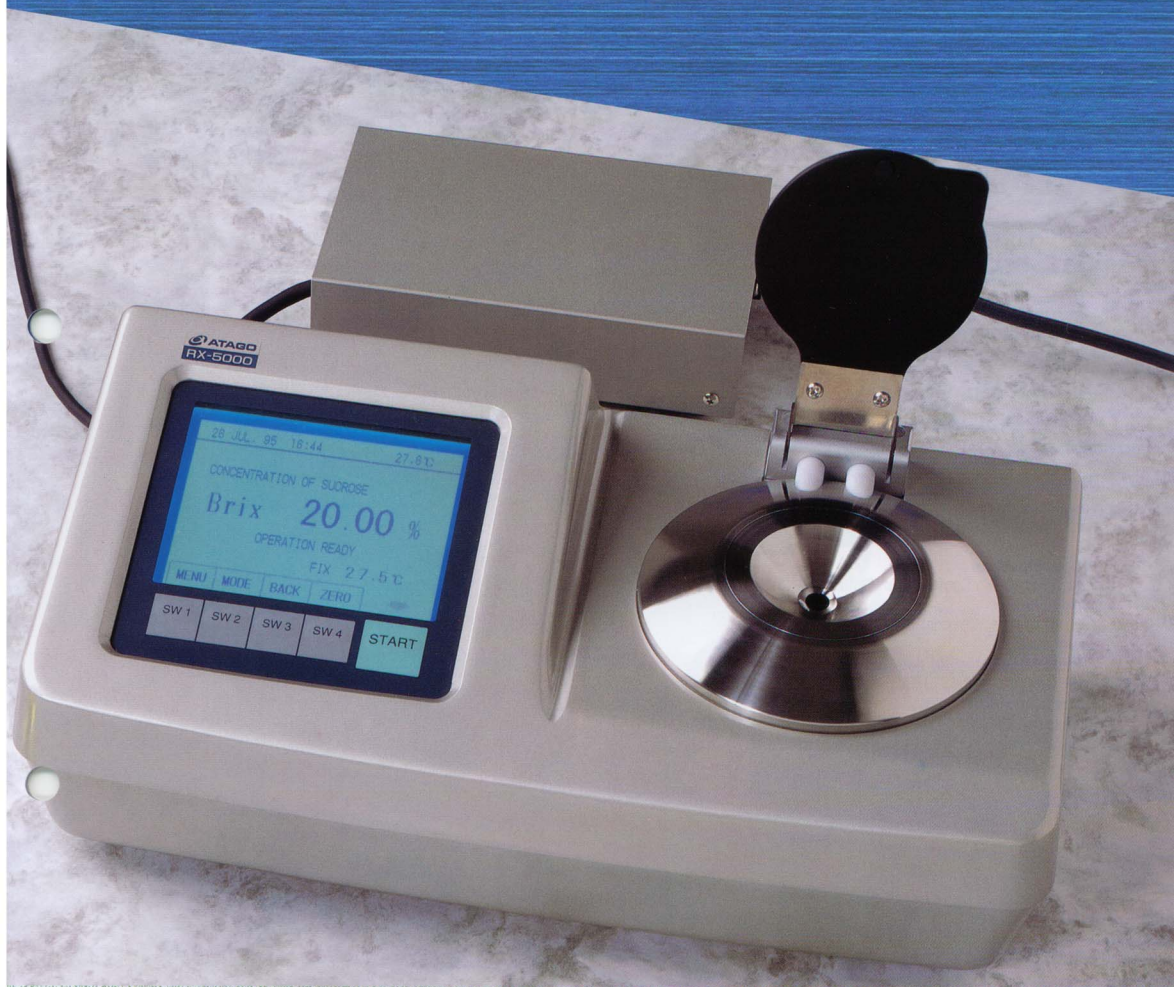
Refractive index(nD or nDt)

Brix(%)



A superb compact-refractometer for industrial use

The digital refractometer RX-5000 has been developed to meet users' demands for fast, easy, accurate measurement. The RX-5000 measures samples for refractive index and Brix (%) (± 0.00004 for nD, $\pm 0.03\%$ for Brix) in just four seconds. For most measurements, only two of the five operation keys are needed. In spite of the unit's compact size and light weight, performance has not been sacrificed. The RX-5000 is the desired refractometer for today's industrial demands.



■ Measurement Modes

Refractive index (nD, nDt) measurement mode

- For the measurement of petrochemicals, refined oil products, crude oil, heavy oil, animal fat and oil, spices, perfumes, chemicals, industrial chemicals, medical supplies, organic solvents, etc.

Brix (sugar content or soluble solid, %) measurement mode

- For the measurement of soft drinks, fruit juices, coffee, condensed milk, canned syrup, seasonings, jams, sauces, soups, etc.

■ Applications

- For testing the quality and refinement of raw materials at the time of purchase or delivery.
- For controlling liquid waste and products during the production process.
- For testing the purity and equivalency of synthetic compounds, distilling refined products, etc.
- For testing and developing medicines, chemical products, processed foods, etc.
- For checking the refractive index and concentration of materials as an auxiliary means of analysis.

High-level performance and ease of operation in a simple, compact unit



•SAMPLE 1
•SAMPLE 2
•SAMPLE 3



■ Features

Precise measurement throughout a wide range.

The RX-5000 provides highly accurate measurements of refractive index (nD, ± 0.00004) and Brix scale ($\pm 0.03\%$) throughout respective ranges of 1.32700 to 1.58000 and 0.00 % to 95.00 %.

High performance in a compact body.

The RX-5000 is approximately one-half the size and weight of previous models (ATAGO RX-1000 and RX-3000).

Rapid measurement.

The time needed for measurement has been cut to just four seconds, three times faster than previous models (ATAGO RX-1000 and RX-3000). The ease of measurement that characterizes the RX-5000 increases efficiency and makes work easier.

Ease of operation.

Most operations can be carried out with just two of the unit's five keys.

Large, easy-to see display with brightness control.

All data, including date, time, current temperature, measurement result, measurement temperature, etc., are clearly shown on the large display.

Specifications

Digital Refractometer RX-5000 (Cat. No.3251)

Measuring system : Optical-refraction critical-angle detection system

Measurement range :

Refractive index (nD) : 1.32700 to 1.58000

Brix (%) 0.00 to 95.00%

Minimum indication :

Refractive index (nD) : 0.00001

Brix (%) : 0.01%

Measurement accuracy :

Refractive index (nD) : ± 0.00004 (with clear liquid)

Brix (%) : $\pm 0.03\%$ (with clear liquid)

Measuring temperature : 5°C to 60°C

Environment temperature : 5°C to 35°C

Display : Dot matrix LCD (320×240 dots, with back light)

Light source for measurement : LED (wavelength approximate to D-line)

Materials used :

Prism : Sapphire

Sample stage : 316 stainless steel

Power supply :

AC adapter

Input voltage : AC100 to 240V

Output voltage : DC 5V, 6A for refractometer

DC 6.5V, 1.5A for printer

Power consumption : 75VA

Output terminals :

Printer output : Digital Printer DP-62 (Optional) is used.

Computer output : RS-232C standard

Dimensions : 37(W)×20(D)×12(H) cm

Weight : Body : 5kg, AC adapter : 770g

● Input of user scale

5 kinds of user scales can be set in the RX-5000 by input of necessary data from a personal computer connected with the RX-5000.

- * Implement and material required for input of user scale
 - personal computer (supporting Windows 95 or Windows 98)
 - exclusive cable (optional)

Options

Digital Printer DP-62 (Cat. No.3018)

When connected to the printer output terminal (Centronics compatible) of the RX-5000, the Digital Printer DP-62 automatically prints out the number of samples, measurement results for refractive index (nD or nDt), Brix%, and measured temperature whenever the RX-5000 completes measurement. Moreover, date and time are printed out when the DP-62 is turned on.

● Specifications

Input connector : Conforms to Centronics standard (with connection cable)

Type of printer : Thermal dot matrix printer

Power supply :

From AC adapter, for both DP-62 and RX-5000

Input voltage : DC6.5V, 1.5A

Power consumption : 13VA

Dimensions : 17(W)×16(D)×7(H)cm

Weight : 580g



● Specifications and appearance are subject to change without notice.

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