

The RX-5000 DIGITAL REFRACTOMETER



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.

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 (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 (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.

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.

RX-5000 SERIES SPECIFICATIONS

Measuring System	Optical-refraction critical-angle detection	
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: %	±0.01%
Measuring Temperature:	5-60°C	
Display	Dot Matrix LCD (320 x 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	AC 100 to 240V
	Output Voltage	DC 5V, 6 A for Refractometer
Power Consumption:	75V A	
Output Terminals:	Printer Output:	Conforms to Centronics Standard
	Computer Output:	RS-232C Standard
Dimensions:	20(L) x 37(W) x 12(H) cm	
Weight:	5.0kg, 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	
	<ul style="list-style-type: none">• personal computer (supporting Windows 95 or Windows 98)• exclusive cable (optional)	

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