

Automatic Digital Refractometer

RX-0070

Cat.No.3921

Highly accurate measurements at the world's highest standards!

Suitable for measuring water solution samples of very low concentrations (5.000% or less) at a very high accuracy ($\pm 0.005\%$).



Features

- Automatic measurement at your targeted temperature
- Internal Peltier Thermo-module eliminates the need for an external water-bath
- 30 User-programmable scales available
- History function
- User-Friendly Operation

Applications

- Variety of teas
- Sugar-free and low sugar content beverages (dieting beverages)
- Extracts of Chinese herbal medicines
- Nonalcoholic beer and cocktails
- Low concentration water solution

Specifications

Measuring system	Optical-refraction, critical-angle detection system
Constant-temperature function	Built-in Thermo-module
Measurement scales	Brix (Automatic Temperature Compensation), User scale (30 User-defined Scales can be inputted)
Measurement Range	Brix 0.000~5.000%
Minimum indication	Brix 0.001%, Temperature 0.01°C
Measurement Accuracy	Brix $\pm 0.005\%$ (under specific ambient and sample temperatures)
Measurement Modes	<p>The thermo-module is in constant operation. Press the START key after applying droplets of the sample correctly onto the prism. The measurement begins after the sample reaches the target temperature.</p> <p>Measurements will start immediately after pressing the START key. The measurement value will be displayed after 20 seconds. The waiting time for the unit to start measurements, after the START key is pressed, can be changed manually (WAIT TIME function). The thermo-module can freely be switched on or off.</p>
• MODE1	
• MODE2	
Temperature Compensation range	15.00~30.00°C (Brix)
Display method	Back lit LCD (320x240 dpi)
Ambient Temperature	15.00~30.00°C
Graphic display	Setting upper and lower standard values, a graphic upper and lower limit bar can be displayed with the value.

Input of user scale	By simply inputting 3 corresponding points of the user scale the RX-007 α will calculate the conversion formula automatically. Unit (% , g/100g, g/100ml, mol/l, %max, %vol, no unit) can be displayed.
History function	30 precious measurements are stored and can also displayed or printed.
Zero adjustment	Zero point is adjusted with distilled water and air.
Output	Digital Printer DP-RX (Optional) Communication method RS-232C
Power supply	AC100V to 240V, 50/60Hz
Power consumption	480VA
Light source	LED (Approximating to wavelength of D line)
Materials	Prism... Artificial crystal Sample stage... SUS316
Sample volume	0.1ml more
Constant temperature conditions	Ambient Temperature 15°C (Constant temperature can be set at 15 to 20°C) Ambient Temperature 20°C (Constant temperature can be set at 15 to 25 °C) Ambient Temperature 25°C (Constant temperature can be set at 20 to 25 °C) Ambient Temperature 30°C (Constant temperature can be set at 25°C)
Dimensions and weight	37 × 26 × 14cm, 6.9kg (main unit only)

Optional

Digital Printer DP-RX Cat.No.3121

Input method	Conforms to Centronics standard (with connection cable)
Type of printer	Thermal dot matrix printer
Printed items	Brix, User scale, Temperature, Date, Month, Year, Time
Power supply	AC adapter (AC 100 to 240V)
Power consumption	13VA
Dimensions and weight	17 × 16 × 7cm, 580g(main unit only)
Parts	• Printer paper for DP-RX: RE-8412 • Printer paper for long-term storage for DP-RX: RE-8414



* Printer DP-RD for regular rolled plain paper (not thermal) is also available.

All ATAGO refractometers are designed and manufactured in Japan.



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※Specifications and appearance are subject to change without notice.