

Refractometer

Choose from four scales—Brix, inverted sugar, HFCS-55 and HFCS-42

- ±0.05% accuracy with a measurement range of 0.00% to 95.00% Brix!
- Measure concentrations of fruit and fruit juices, jams, pastes, canned syrups, sauces and liquid sugars

This automatic refractometer is ideal for the food, beverage, pharmaceutical and chemical industries as it can be used to measure a wide variety of samples. Coolants, ethanol, amino acid and brine solutions can also be measured with the highest level of accuracy (±0.05%) and the widest Brix measuring range (0.00 to 95.00%). Samples can be measured with ease ensuring quality and process control.

Automatic temperature compensation allows for the measurement of samples that are above or below room temperature. The temperature of each sample is displayed at the time of measurement, eliminating potential uncertainties. There are only three operation keys: zero, start and scale, making measurements quick and easy. Apply a sample on the surface of the prism, press and release the start key and the measured value is displayed in five seconds.

This unit is very easy to calibrate. Simply clean the prism, add distilled water then press the zero key. RS-232 enables you to store and send output data to your computer or printer.

What's included: a 115 VAC adapter, 6½-ft power cord, and two plastic sample spoons.

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See our "Polarimeters" section to determine concentration and purity of your samples.



81100-40



Specifications & Ordering Information

Sample volume: 0.1 mL, minimum **Output:** RS-232 **Display:** 4-digit LED **Dimensions:** 4¾"W x 3½"H x 10⅝"D

Catalog number	Range	Resolution	Accuracy	ATC	Power	Price
KH-81100-40	0.00 to 95.00% Brix	0.01% Brix	±0.05% Brix	41 to 104°F (5.00 to 40.00°C)	100 to 240 VAC, 50/60 Hz	

Programmable Digital Refractometers

Measure refractive index samples from 1.32500 to 1.7000

- Built in thermo module ensures precision accuracy and eliminates the need for a water bath circulator
- Model 81100-34 features a flat sample stage—providing a smooth clean surface for any beverage

Process control and quality assurance has never been made easier with these programmable automatic refractometers. Refractive index, Brix, and percent concentration can be all measured with precision accuracy. These units are ideal for use in the food and beverage, pharmaceutical, chemical and cosmetic industries. Determine the refractive index of citrus, animal or vegetable oils, methylene chloride, polymers, medicinal liquids and chemicals with the widest refractive index range of 1.32500 to 1.7000. Take precise Brix measurements of fruit and concentrated juices, canned syrups, liquid sugars and glucose with a Brix range of 0.00 to 95.00%. Three separate mode types provide user flexibility of taking measurements with or without automatic temperature compensation.

Measure your sample directly after it reaches the set target temperature in mode 1. Select mode 2 for measuring the refractive index and temperature at a fixed interval, displaying the estimated value at the set target temperature. In mode 3, measurements start immediately after the sample is placed on the prism and the start key is pressed—measurement start time can be manually delayed after pressing the start key.

New



81100-34

These units feature built-in peltier temperature control that eliminates the need for a water bath circulator. A conversion formula is automatically created if three points of a user scale corresponding to the refractive index are inputted. Program up to 30 different user scales. The LCD display with backlight provides mode, date, time, measurement, ambient and target temperature readings. Extended memory capability allows you to display the last 30 measurements. The rugged stainless steel sample well makes clean up easy. Print out measurement data or download information directly to your PC with RS-232 output capabilities.

What's included: a 115 VAC adapter, 6-ft power cord, keyboard mask, plastic sample spoon and instruction manual.



Specifications & Ordering Information

Sample volume: 0.1 mL, minimum **Output:** RS-232 **Display:** LCD **Dimensions:** 14½"W x 5½"H x 10¼"D

Catalog number	Range	Resolution	Accuracy	ATC	Power	Price
KH-81100-30	0.00 to 95.00% Brix, 1.3250 to 1.7000 nD	0.01% Brix, 0.00001 nD	±0.1% Brix, ±0.0001 nD	41 to 158°F, (5.00 to 70.00°C)	100 to 240 VAC, 50/60 Hz	
KH-81100-32	0.00 to 95.00% Brix, 1.32700 to 1.58000 nD	0.01% Brix, 0.00001 nD	±0.03% Brix, ±0.00004 nD	41 to 140°F, (5.00 to 60.00°C)		
KH-81100-34						