



- fruits
- energy drinks
- puddings
- soy milk
- juices
- jam
- marmalade
- honey
- soups
- jelly
- tofu
- condiments

ANALYZE

Sugar Refractometers

For Accurate Lab and Field Analysis

4
models

ISO 9001:2000 CERTIFIED



B.E.P.S. ±
Battery Error
Prevention System

2 YEAR
WARRANTY

HANNA[®]
instruments
www.hannainst.com



Refractometers for Accurate Sugar Analysis in the Lab or Field

Designed to Meet Your Requirements

HANNA offers four Sugar refractometers to meet the requirements of the food industry. The HI 96801 Sucrose, HI 96802 Fructose, HI 96803 Glucose and HI 96804 Invert Sugar Digital Refractometers are rugged, portable and water resistant for measurements in the lab or field. Each instrument offers a specific analysis to determine accurate sugar concentration.

These optical instruments employ the measurement of the refractive index to determine parameters pertinent for sugar concentration analysis.

The actual measurement of refractive index is simple and quick and provides the operator a standard accepted method for sugar content analysis. Samples are measured after a simple user calibration with deionized or distilled water. Within seconds these instruments measure the refractive index of the sample and convert it to % by weight concentration units (or % Brix for HI 96801). These digital refractometers eliminate the uncertainty associated with mechanical refractometers and are easily portable for measurements in the field.

These four instruments utilize internationally recognized references for unit conversion and temperature compensation and employ methodology recommended in the ICUMSA Methods Book (Internationally recognized body for Sugar Analysis).

Temperature (in °C or °F) is displayed simultaneously with the measurement on the large dual level display along with icons for low power and other helpful messages.



HI 96801

Measures the refractive index to determine the % Brix of sugar in aqueous solutions. The refractive index of the sample is converted to % Brix concentration units.

HI 96802

Measures the refractive index to determine the % Fructose in aqueous solutions. The refractive index of the sample is converted to % by weight concentration units.

HI 96803

Measures the refractive index to determine the % Glucose in aqueous solutions. The refractive index of the sample is converted to % by weight concentration units.

HI 96804

Measures the refractive index to determine the % Invert Sugar in aqueous solutions. The refractive index of the sample is converted to % by weight concentration units.

Professional Features

Dual Level LCD

The dual-level LCD displays the measurement as well as the temperature readings simultaneously.

Automatic Temperature Compensation

Easy Measurement

Place a few drops of the sample in the well and press the READ key.

B.E.P.S

B.E.P.S. (Battery Error Protection System) alerts the users in the event that low battery power could adversely affect readings.

IP 65 Waterproof Protection

Quick, Precise Results

Readings are displayed in approximately 1.5 seconds.

Single Point Calibration

With distilled or deionized water.

Small Sample Size

Sample size can be as small as 2 metric drops.

Automatic Shut-off

Stainless Steel Sample Well



Technical, Ordering and Accessory Information

SPECIFICATIONS		HI 96801	HI 96802	HI 96803	HI 96804
Range	Sugar Content	0 to 85% Brix	0 to 85% (by weight)	0 to 85% (by weight)	0 to 85% (by weight)
	Temperature	0 to 80°C (32 to 176°F)			
Resolution	Sugar Content	±0.1 % Brix	±0.1	±0.1	±0.1
	Temperature	±0.1°C (0.1°F)			
Accuracy (@20°C)	Sugar Content	±0.2% Brix	±0.2%	±0.2%	±0.2%
	Temperature	±0.3°C (0.5°F)			
Temperature Compensation		Automatic between 10 and 40°C (50 to 104°F)			
Measurement Time		Approximately 1.5 seconds			
Minimum Sample Volume		100 L (to cover prism totally)			
Light Source		Yellow LED			
Sample Cell		SS ring and flint glass prism			
Auto-off		After 3 minutes of non-use			
Enclosure Rating		IP 65			
Battery Type / Battery Life		9V / Approx 5000 readings			
Dimensions / Weight		192 x 102 x 67 mm (7.6 x 4 x 2.6")			

ORDERING INFORMATION

HI 96801, HI 96802, HI 96803 and HI 96804 are supplied with battery and instruction manual.



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marmalade
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ANALYZE



soy milk
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condiments

