Automatic Refractometer



Brix Inverted sugar concentration HFCS-55 (High Fructose Corn Syrup) HFCS-42 (High Fructose Corn Syrup)

MART-1

ØATAGO®

Samples

Food Fields

Fruit juice Tea drinks Coffee drinks Lactic drinks Concentrated fruit juice Puree Liquid suger Glucose Honey Marmalade Condensed milk Soy sauce Sauce Ketchup Soup Wort Vinegar Pickle(Liquid) Waste liquid of suger etc.

Water-soluble cutting oil Quenching oil Water-soluble detergent Coolant and brine solutions Ethylene glycol Propylene glycol **Rust Preventive** IPA **PVA** Ethanol Alkaline solution Sodium carbonate Acetic acid Amino acid Protein Gelatin Salt water Seawater Coating solution Waste liquid of alcohol Sodium hydroxide Sodium glutamate Citric acid Glycerin Cesium chloride Calcium chloride Fire extinguishing solution Coating liquid etc.

Features

- Wide measurement range of 0.00 to 95.00%
- ■High accuracy of ±0.05%
- Automatic Temperature Compensation (ATC) from 5 to 40°C
- Four sugar concentration scales : Brix, inverted sugar, HFCS-55 (High Fructose Corn Syrup) and HFCS-42 (High Fructose Corn Syrup)
- ■Featuring a second measurement mode designed to continuously take measurements and display an accurate value once readings are stabilized, thus allowing for solutions above or below room temperature to be measured with confidence
- Printer and computer outputs through RS-232C communication

MART.

Three-button design (ZERO, START, and SCALE) for simple, efficient operation

Applications

- Beverage factories
- ■Food factories
- ■Sugar factories
- Pharmaceutical, medical, and other industries

The Brix, Inverted sugar concentration, HFCS-55 (High Fructose Corn Syrup), HFCS-42 (High Fructose Corn Syrup) can be measured in a range of 0.00 to 95.00% and with a high accuracy of

±0.05%



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60	Cat.No.	3150		Temperature indication accuracy	±0.10°C	
ecif	Measuring system	Optical refraction critical angle detection	n system	Environmental	Ambient temperature: 5 to 40°C	
	Measurement items	 ⑦ Brix (Automatic Temperature Compensation) ② Inverted sugar concentration (Automatic Temperature Compensation) ③ HFCS-55 (High Fructose Corn Syrup) (Automatic Temperature Compensation) ④ HFCS-42 (High Fructose Corn Syrup) (Automatic Temperature Compensation) 	conditions	Ambient humidity: Max. 90%RH Ambient altitude (Above sea level): Max. 5,000m		
			Display method	LED		
tions	Measurement range	 Brix Inverted sugar concentration 	: 0.00 to 95.00% : 0.00 to 95.00%	Printer output	Digital Printer DP-22 (A)(optional) is used. Output system: RS-232C Printing items: Either Brix or concentration, and sample No.	
		 ③ HFCS-55 (High Fructose Corn Syrup) ④ HFCS-42 (High Fructose Corn Syrup) 		Computer communication	Communication system: RS-232C Output item: Either Brix or concentration	
	Minimum indication			Input items: Zero setting and measurements can be started from the computer		
	malcation	③ HFCS-55 (High Fructose Corn Syrup)	yrup) : 0.01%	Zero setting	Zero is to be set with distilled water.	
		 ④ HFCS-42 (High Fructose Corn Syrup): ⑤ Temperature 		Light source	LED (D line wavelength approximation)	
	Measurement accuracy	Brix (on measurement of sucrose) Diverted sugar concentration HFCS-55 (High Fructose Corn Syrup) HFCS-42 (High Fructose Corn Syrup)	: ±0.05% : ±0.05% : ±0.05% : ±0.05%	Material	① Prism: optical glass ② Sample stage: SUS316	
				Input power supply	AC100 to 240V, 50/60Hz	
				Power consumption	15VA	
	Repeatability	⑤ Temperature : ±0.05°0 ① Brix : 0.01%	: ±0.05°C : 0.01%	Size and weight	Refractometer: 12×27×9cm, 2.0kg (main unit only) AC adapter: 10.5×17.5×4cm, 0.7kg	
		 ② Inverted sugar concentration ③ HFCS-55 (High Fructose Corn Syrup) ④ HFCS-42 (High Fructose Corn Syrup) 		International Protection Class	IP64 (Excluding AC adapter) Dust-tight and protected against splashing water.	
	Temperature	5.00 to 40.00°C				

displayed.

Measuring method

Option

planation of icons

compensation range



1. Place sample on the surface of the prism.

Digital Printer DP-22(A)

Cat.No. Input method Type of printer Printing item Printer power supply **Power consumption** Size and weight

3124 RS-232C Thermal dot matrix printer Either Brix or concentration, and sample No. AC adapter (Input voltage: AC100 to 240V) 26\/A 14×10×4cm, 390g (main unit only)

2. Press and release the

START key one time.

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Sucrose Solution (for Brix confirmation)

Parts.No.	RE-110010	RE-110030	RE-110050
Parts Name	10 % Sucrose	30 % Sucrose	50 % Sucrose
Brix Concentration	10.00±0.03%	$30.00 \pm 0.03\%$	$50.00 \pm 0.05\%$
Contents	Approx. 5ml	Approx. 5ml	Approx. 5ml

* Shelf life for those solution is for 6 weeks

- Calibration with water * Calibration 1 point* sur eau distillée
 - * Kalibrierung mit Wasser
 - Calibrazione con acqua * Calibración con agua
 - * 用水歸零
 - * Can be connected to a printer * Sortie imprimante
- * Verbindung mit Personalcomputer
- * Collegabile a stampante esterna
- * Conexión para impresora
- * 可與印表機連結

* Digital display* Affichage numérique

- H * Digital Anzeige
 - * Display digitale
 * Pantalla digital
 - * 數字顯示
- RS-232C Interface PC * Interface RS232C pour PC
 - * Interface RS232C
 - * Interfaccia RS232C
 - * Interface RS232C
 - * RS_232C輸出

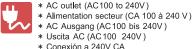


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- * Uscita AC (AC100 240V) * Conexión a 240V CA
- * AC插座 (AC100 至 240V)

Automatic Temperature Compensation

- Compensation automatique de température
- * Automatische Temperaturkompensation * Compensazione automatica della temperatura
- * Compensación de automática de temperatura
- * 自動溫度補償



* Specifications and appearance are subject to change without notice.

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