Brix

Inverted sugar concentration HFCS-55

(High Fructose Corn Syrup)

HFCS-42

(High Fructose Corn Syrup)

MAR

Samples

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

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
- ■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

sales@calcert.com

1.888.610.7664















Measuring

Cat No.

system

3150

Optical refraction critical angle detection system

Measurement items

Brix (Automatic Temperature Compensation)
 Inverted sugar concentration (Automatic Temperature Compensation)
 HFCS-55 (High Fructose Corn Syrup) (Automatic Temperature Compensation)

HFCS-42 (High Fructose Corn Syrup) (Automatic Temperature Compensation)

Measurement range

0.00 to 95.00% ② Inverted sugar concentration : 0.00 to 95.00%
③ HFCS-55 (High Fructose Corn Syrup) : 0.00 to 95.00% 4 HFCS-42 (High Fructose Corn Syrup): 0.00 to 95.00%

Minimum indication ② Inverted sugar concentration ③ HFCS-55 (High Engage) ① Brix 0.01% : 0.01% HFCS-55 (High Fructose Corn Syrup): 0.01% 4 HFCS-42 (High Fructose Corn Syrup): 0.01% ⑤ Temperature 0.05°C

Measurement

① Brix (on measurement of sucrose) : ±0.05% ② Inverted sugar concentration : ±0.05%
③ HFCS-55 (High Fructose Corn Syrup) : ±0.05% HFCS-42 (High Fructose Corn Syrup): ±0.05%

 HFCS-42 (Hig
 Temperature Repeatability

② Inverted sugar concentration 0.01% ③ HFCS-55 (High Fructose Corn Syrup): 0.01% ④ HFCS-42 (High Fructose Corn Syrup): 0.01%

Temperature compensation range 5.00 to 40.00°C

Temperature indication accuracy

Environmental Ambient temperature: 5 to 40°C conditions

+0.10°C

Ambient humidity: Max. 90%RH

Ambient altitude (Above sea level): Max. 5.000m

Display method

Digital Printer DP-22 (A)(optional) is used. Output system: RS-232C Printer output

Printing items: Either Brix or concentration, and sample No.

Computer Communication system: RS-232C communication

Output item: Either Brix or concentration Input items: Zero setting and measurements can be started from the computer.

Zero is to be set with distilled water. Zero setting Light source LED (D line wavelength approximation)

Material ① Prism: optical glass ② Sample stage: SUS316

AC100 to 240V, 50/60Hz Input power supply

Power consumption

Refractometer: 12×27×9cm, 2.0kg (main unit only) AC adapter: 10.5×17.5×4cm, 0.7kg Size and weight

IP64 (Excluding AC adapter) International

Dust-tight and protected against splashing water.

Measuring method



1. Place sample on the surface of the prism.



±0.05°C

0.01%

2. Press and release the START key one time.



3. The measured value is displayed.



Digital Printer DP-22(A)

Cat.No. Input method RS-232C

Type of printer Thermal dot matrix printer

Printing item Either Brix or concentration, and sample No. Printer power supply AC adapter (Input voltage: AC100 to 240V)

Power consumption

Size and weight 14×10×4cm, 390g (main unit only)





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±0.03%	50.00±0.05%
Contents	Approx. 5ml	Approx. 5ml	Approx. 5ml

* Shelf life for those solution is for 6 weeks



explanation of icons

- 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 displayAffichage numérique
- * Digital Anzeige
- Display digitalePantalla digital
- * 數字顯示



- RS-232C Interface * Interface RS232C pour PC
 - * Interface RS232C
 - * Interfaccia RS232C
 - * Interface RS232C
 - * RS_232C輸出
- AC outlet (AC100 to 240V) * Alimentation secteur (CA 100 à 240 V)
- AC Ausgang (AC 100 bis 240V)
- Uscita AC (AC 100 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



ATAGO products comply with HACCP GMP, and GLP system standards.





* Specifications and appearance are subject to change without notice.



All ATAGO refractometers are designed and manufactured in Japan.