Brix Inverted sugar concentration HFCS-55(High Fructose Corn Syrup) HFCS-42(High Fructose Corn Syrup) ophisti Cat. No.3150 The Brix, inverted sugar, HFCS-55(High Fructose Corn Syrup) or 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%!! **PATAGO**

The SMART-1 is an automatic refractometer with

Features

- A wide measuring range of 0.00 to 95.00%
- ●A high accuracy of ±0.05%
- Automatic temperature compensation at a range of 5 to 40℃
- Four kinds of scales, Brix, inverted sugar, HFCS-55(High Fructose Corn Syrup) and HFCS-42(High Fructose Corn Syrup) displayed directly in accordance with the sugar type
- A mode to display a value at a point where it becomes stable! Hotter or colder solutions than room temperature can be measured without paying attention to the temperature.
- Printer and computer outputs through RS-232C communication
- Only three operation keys, ZERO, START and SCALE which make you comfortable and raise efficiency

Applications

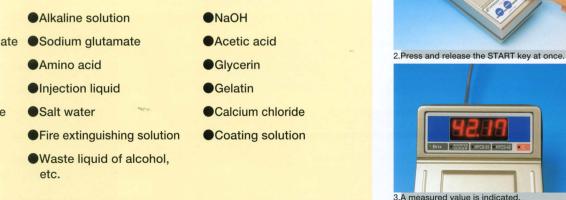
- At beverage factories
- At food factories
- At sugar factories
- In industrial fields
- In medical, pharmaceutical and other industries

Samples

- Fruit juice
- Oolong tea
- Lactic drinks
- Tomato juice
- Liquid sugar
- Starch
- Marmalade
- Sov sauce
- Sauce
- Ketchup
- Soup
- ●Wort
- Vinegar
- Pickle(liquid)
- Waste liquid of sugar, etc.

- Soft drinks
- Coffee drinks
- Alcohol drinks
- Puree
- Inverted sugar
- Honey
- Condensed milk
 - Ethanol
 - Sodium carbo
 - Citric acid
 - Protein
 - Cesium chloric
 - Seawater
 - Sizing liquid





Automatic Refractometer SMART – 1

Specifications

Cat. No. Measuring system

Measurement range

Optical refraction critical angle detection system Measurement items 1) 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)

: 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

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

(5) Temperature

1) Brix (on measurement of sucrose) **Measurement accuracy**

2 Inverted sugar concentration :±0.05% 3 HFCS-55(High Fructose Corn Syrup) :±0.05%

4 HFCS-42(High Fructose Corn Syrup)

5.00 to 40.00℃ Temperature compensation range Temperature indication accuracy ±0.10℃

Environmental conditions Ambient temperature: 5 to 40°C Ambient humidity: Max. 90%RH

Ambient altitude(Above sea level): Max. 5,000m

Display method

Printer output Digital Printer DP-22 (optional) is used.

Output system: RS-232C

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

Computer communication Communication system: RS-232C

Output item: Either Brix or concentration

Input item: Zero setting and measurements can be started from the computer.

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

1) Prism:Optical glass 2) Sample stage: SUS316

AC100 to 240V, 50/60Hz

Size and weight Refractometer: 27×12×9cm, 2.0kg AC adapter: 10.5×17.5×4cm, 0.7kg

Option

Input power supply

Power consumption

Digital Printer DP-22

Cat. No. : 3013 Input method : RS-232C

: Thermal dot matrix printer Type of printer **Printing item**

: Either Brix or concentration, and sample No.

Printer power supply : Power terminal is available for

DP-22(optional) on AC adapter

of the SMART-1.



ATAGO products are installed in HACCP, G.M.P. and G.L.P. systems.

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ISO9001

REGISTERED



Main Office:32-10 Honcho, Itabashi-ku, Tokyo 173-0001, Japan TEL:81-3-3964-6156, FAX:81-3-3964-6137 export@atago.net http://www.atago.net/



13005 NE 126th Place, Kirkland, WA 98034, U.S.A. TEL:425-821-9050 FAX:425-825-5525 customerservice@atago-usa.com http://www.atago.net/









: 0.05°C

: ±0.05%

:+0.05%