**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

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

**Food Fields**
- 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.
Place sample on the surface of the prism.
Press and release the START key one time.
The measured value is displayed.

<table>
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<tr>
<th>Measurement system</th>
<th>Measuring items</th>
<th>Measurement range</th>
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<th>Measurement accuracy</th>
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<th>Temperature compensation range</th>
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<tbody>
<tr>
<td>① Brix (Automatic Temperature Compensation)</td>
<td>① Inverted sugar concentration (Automatic Temperature Compensation)</td>
<td>① Brix: 0.00 to 95.00%</td>
<td>① Brix: 0.1%</td>
<td>① Brix: 0.05%</td>
<td>② Inverted sugar concentration: 0.1%</td>
<td>5.00 to 40.00°C</td>
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<tr>
<td>② Inverted sugar concentration (Automatic Temperature Compensation)</td>
<td>② Inverted sugar concentration</td>
<td>② Inverted sugar concentration: 0.05%</td>
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<tr>
<td>③ HFS-55 (High Fructose Corn Syrup) (Automatic Temperature Compensation)</td>
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<td>③ HFS-55 (High Fructose Corn Syrup): 0.1%</td>
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</tr>
<tr>
<td>④ HFS-42 (High Fructose Corn Syrup) (Automatic Temperature Compensation)</td>
<td>④ HFS-42 (High Fructose Corn Syrup)</td>
<td>④ HFS-42 (High Fructose Corn Syrup): 0.1%</td>
<td>④ HFS-42 (High Fructose Corn Syrup): 0.05%</td>
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<td>5.00 to 40.00°C</td>
</tr>
</tbody>
</table>

Environmental conditions:
- Ambient temperature: 5 to 40°C
- Ambient humidity: Max. 90% RH
- Ambient altitude (Above sea level): Max. 5,000m

Display method: LED

Printer output:
- Digital Printer DP-22 (A) (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

Input power supply:
- AC100 to 240V, 50/60Hz
- Power consumption: 15VA

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

International:
- IP64 (Excluding AC adapter)

Protection Class:
- Dust-tight and protected against splashing water.

Specifications and appearance are subject to change without notice.

All ATAGO refractometers are designed and manufactured in Japan.

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