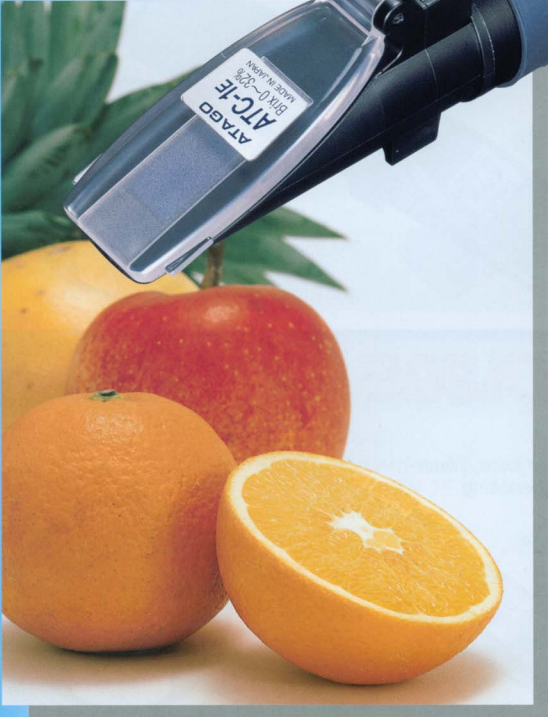
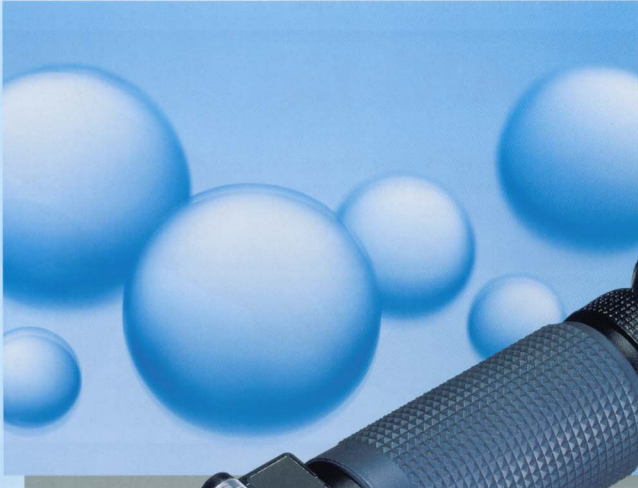


Hand-held Refractometers



Automatic Temperature Compensating Refractometers

ATC-1E | ATC-2E | ATC-20E

*As these hand-held refractometers make temperature compensation with a built-in mechanism, they enable you to concentrate on your measurements without worrying about the temperature (compensating range: 10°C to 30°C).

*These models can be used outdoors or at production sites.

*The scale is big, and the boundary line of the scale is easy to view.

Automatic Temperature Compensating Refractometer

Cat.No.2912

ATC-1E

Samples:

Fruit juice, Puree, Coffee drinks, Cocoa drinks, Vinegar, Soup, Soft drinks, Tomato juice, Lactic drinks, Water-soluble cutting oil, Water-soluble washing solution, Quenching oil, etc.

Scale range : Brix 0.0 to 32.0%
Minimum scale : 0.2%
Accuracy : $\pm 0.2\%$
Compensation : Built-in automatic temperature compensation system
Compensation range : 10 to 30°C
Size and weight : 4 × 4 × 18cm, 170g



Automatic Temperature Compensating Refractometer

Cat.No.2122

ATC-2E

Samples:

Ketchup, Soy sauce, Worcester sauce, Chili sauce, Barbecue sauce, Tomato sauce, Liquid seasoning, etc.

Scale range : Brix 28.0 to 62.0%
Minimum scale : 0.2%
Accuracy : $\pm 0.2\%$
Compensation : Built-in automatic temperature compensation system
Compensation range : 10 to 30°C
Size and weight : 4 × 4 × 16cm, 150g



Automatic Temperature Compensating Refractometer

Cat.No.2164

ATC-20E

Samples:

Fruit juice, Puree, Coffee drinks, Soft drinks, Tomato juice, Water-soluble cutting oil, Water-soluble washing solution, Quenching oil, etc.

Scale range : Brix 0.0 to 20.0%
Minimum scale : 0.1%
Accuracy : $\pm 0.2\%$
Compensation : Built-in automatic temperature compensation system
Compensation range : 10 to 30°C
Size and weight : 4 × 4 × 20cm, 200g



Standard Hand-held Refractometers

N-1α | N-2E | N-3E | N-4E | N-10E | N-20E | N-50E

- *These models are the most standard refractometers.
- *The scale is big and the boundary line of the scale is easy to view.
- *These refractometers are lightweight and easy to handle.

Hand-held Refractometer

NEW!

N-1α

Cat.No.2211

Samples:

Fruit juice, Puree, Coffee drinks, Cocoa drinks, Vinegar, Soup, Soft drinks, Tomato juice, Lactic drinks, Water-soluble cutting oil, Water-soluble washing solution, Quenching oil, etc.



Scale range : Brix 0.0 to 32.0%
 Minimum scale : 0.2%
 Size and weight : 4×4×17.3cm,160g

Hand-held Refractometer

N-2E

Cat.No.2121

Samples:

Ketchup, Soy sauce, Worcester sauce, Chili sauce, Barbecue sauce, Tomato sauce, Barbecue seasoning, etc



Scale range : Brix 28.0 to 62.0%
 Minimum scale : 0.2%
 Size and weight : 4×4×16cm,150g

Hand-held Refractometer

N-3E,N-4E

Cat.No.2131,2141

Samples:

Liquid sugar(N-3E & N-4E), Concentrated fruit juice(N-3E & N-4E), Jam(N-3E & N-4E), Operation oil(N-3E & N-4E), Condensed milk(N-4E only), etc.

N-3E

Scale range : Brix 58.0 to 90.0%
 Minimum scale : 0.2%
 Size and weight : 4×4×14cm,140g

N-4E

Scale range : Brix 45.0 to 82.0%
 Minimum scale : 0.2%
 Size and weight : 4×4×14cm,140g



scale : N-3E

Hand-held Refractometer

Cat.No.2151,2161

N-10E, N-20E

Samples:

Fruit juice, Puree, Coffee drinks, Soft drinks, Tomato juice, Water-soluble cutting oil(light emulsion), Water-soluble washing solution, Quenching oil, etc.

N-10E

Scale range : Brix 0.0 to 10.0%
 Minimum scale : 0.1%
 Size and weight : 4×4×21cm,200g

N-20E

Scale range : Brix 0.0 to 20.0%
 Minimum scale : 0.1%
 Size and weight : 4×4×21cm,200g



scale : N-10E

Hand-held Refractometer

Cat.No.2181

N-50E

Samples:

Canned syrup, Cocoa drinks, Soup, Lactic drinks, Ketchup, Soy sauce, Worcester sauce, Chili sauce, Barbecue sauce, Tomato sauce, Liquid seasoning, Pickle(liquid), Water-soluble cutting oil (heavy emulsion), etc

Scale range : Brix 0.0 to 50.0%
 Minimum scale : 0.5%
 Size and weight : 4×4×14cm,140g



Hand-held Refractometers for High-temperature Samples

H-50 | H-80

*These hand-held refractometers are superior to standard models in terms of heat resistance.

*These models have a longer service life compared with standard types because the prism is made of corrosion resisting tempered glass.

*These refractometers can be used for measuring Brix (%) of hot samples in the boiling process.

Hand-held Refractometer

Cat.No.2200,2201

H-50, H-80

Samples:

H-50 : Stock or Broth in the boiling process, Hot soup.

H-80 : Jam or Marmalade in the boiling process.

H-50

Scale range : Brix 0.0 to 50.0%
 Minimum scale : 0.5%
 Size and weight : 4×4×14cm,250g

H-80

Scale range : Brix 30.0 to 80.0%
 Minimum scale : 0.5%
 Size and weight : 4×4×14cm,250g



scale : H-80

Hand-held Refractometer with Wide Measurement Range

HSR-500

*This model has a measurement range of Brix 0.0 to 90.0%. Moreover, clear samples are suitable for measurement with this model.

Hand-held Refractometer

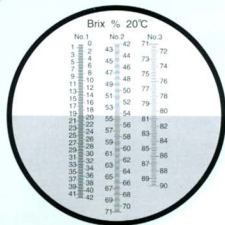
HSR-500

Cat.No.2340

Samples:

Fruit juice, Canned syrup, Vinegar, Soft drinks, Soy sauce, Liquid seasoning, Liquid sugar, Jam, Edible oil, etc.

- Scale range : Brix 0.0 to 90.0%
- Minimum scale : 0.2%
- Thermometer : +1.6 to -0.8 temperature compensation scale
- Size and weight : 4×4×20cm,600g



Hand-held Refractometers with Refractive Index Scale

N-3000E ; R5000

*These models are used for measuring the refractive index of samples.

Hand-held Refractometer

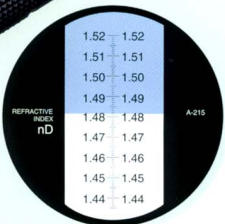
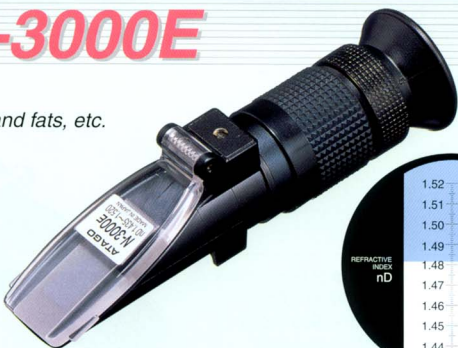
N-3000E

Cat.No.2611

Samples:

Vegetable oils and fats, Edible oil, Animal oils and fats, etc.

- Scale range : nD 1.435 to 1.520
- Minimum scale : nD 0.001
- Size and weight : 4×4×14cm, 140g



Hand-held Refractometer

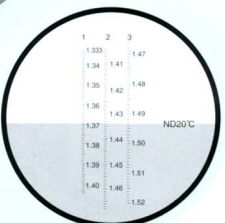
R5000

Cat.No.2350

Samples:

Benzene, Toluene, Xylene, Glycerin, Chemicals, as well as samples for the N-3000E.

- Scale range : 3-stage switching nD1.333 to 1.520
- Minimum scale : nD0.001
- Thermometer : 5 to 40°C
- Size and weight : 4×4×20cm,600g



Clinical Refractometers

SPR-NE URICON-NE T2-NE

*These models can be used for measuring the concentration of serum protein or the specific gravity of urine.

*Measurements can be done with just one drop of the sample.

Serum protein Refractometer

Cat.No.2732

SPR-NE

Samples:
Serum protein.

Scale range : Serum protein
0 to 12g/100ml
Refractive index
1.333 to 1.360

Size and weight : 4×4×18cm,170g



Urine S.G. Refractometer

Cat.No.2722

URICON-NE

Samples:
Urine.

Scale range : Urine S.G.
1.000 to 1.050
Refractive index
1.333 to 1.356

Size and weight : 4×4×21cm,200g



Clinical Refractometer (Table type)

Cat.No.2752

T2-NE

Samples:
Serum protein and Urine.

Scale range : Serum protein
0 to 12g/100ml
Urine S.G.
1.000 to 1.050
Refractive index
1.333 to 1.360

Size and weight : 15×10×21cm,840g



Hand-held Refractometers with Exclusive Scales

ATC-25E | TAP-25E | S-10E | S-28E | S/Mill-E | HHR-2N | BC-2E | BC-3E | BR-1E

*Those models are ideal for measuring the concentration of specific samples.

Hand-held Wine Refractometer

ATC-25E, TAP-25E

Cat.No.2582,2572

For measuring the concentration of Grape Must !

Samples:

Grape must.



ATC-25E

The ATC-25E makes temperature compensation with a built-in mechanism.

Scale range : T.A.(Titre Alcoometric)
Alcoholic strength% vol.
0.0 to 25.0%

Minimum scale : 0.1%
Temperature correction: 10 to 30°C
Size and weight : 4×4×16.5cm,150g

TAP-25E

Scale range : T.A.(Titre Alcoometric)
Alcoholic strength% vol.
0.0 to 25.0%

Minimum scale : 0.1%
Size and weight : 4×4×16cm,150g

Salinity Refractometer

S-10E, S-28E

Cat.No.2412,2422

For measuring the concentration of saltwater !

Samples:

Saltwater



S-10E

Scale range : Sodium chloride
0.0 to 10.0%

Minimum scale : 0.1%
Size and weight : 4×4×21cm,200g

S-28E

Scale range : Sodium chloride
0.0 to 28.0%

Minimum scale : 0.2%
Size and weight : 4×4×17cm,170g

scale:S-10E

Salinity Refractometer

S/Mill-E

Cat.No.2442

For measuring the salinity per mill(‰) of seawater !

Samples:

Seawater, Artificial seawater.



Scale range : Salinity 0 to 100(‰)
Specific gravity
1.000 to 1.070

Minimum scale : Salinity 1(‰)
Specific gravity 0.001

Size and weight : 4×4×21cm,200g

Hand-held Refractometers

Honey Refractometer

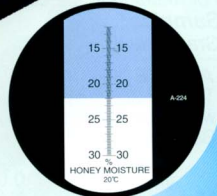
HHR-2N

Cat.No.2522

For measuring the percentage of water contained in honey !

Samples:
Honey.

Scale range : water content in honey
12.0 to 30.0%
Minimum scale : 0.1%
Thermometer : Temperature compensation scale
Size and weight : 4 × 4 × 17cm, 260g



Battery Coolant Checker

BC-2E, BC-3E

Cat.No.2832,2842

For measuring the specific gravity of battery fluid and for knowing the freezing temperature of ethylene glycol and propylene glycol !

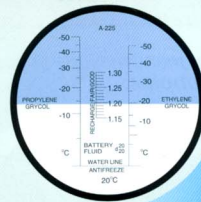
Samples:
Battery fluid, Antifreezing solution(Ethylene glycol, Propylene glycol).

BC-2E
Freezing point of coolant : Ethylene glycol 0 to -50°C
Propylene glycol 0 to -50°C
Battery fluid d₂₀ 1.150 to 1.300
Size and weight : 4 × 4 × 14cm, 140g

BC-3E
Freezing point of coolant : Ethylene glycol 32 to -60°F
Propylene glycol 32 to -50°F
Battery fluid d₂₀ 1.150 to 1.300
Size and weight : 4 × 4 × 14cm, 140g



Scale:BC-2E



Coolant Refractometer

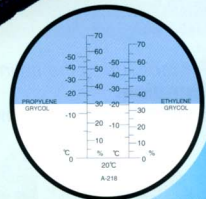
BR-1E

Cat.No.2821

For measuring the concentration of ethylene glycol and propylene glycol and for knowing the freezing temperature of ethylene glycol and propylene glycol !

Samples:
Antifreezing solution(Ethylene glycol, Propylene glycol).

Scale range : Ethylene glycol 0 to 70%, 0 to -50°C
Propylene glycol 0 to 70%, 0 to -50°C
Size and weight : 4 × 4 × 14cm, 140g



*Specifications and appearance are subject to change without notice.

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