



KEM

Acidity

KEM SET for Beverage

Alkalinity

Gas volume
Internal gas pressure
Air content
Oxygen concentration
Inside pressure

Density
Brix

Vitamin C

Ca & Mg

KEM SET

for Beverage



KEM SET A
Automatic Potentiometric Titrator
High-end Model

KEM SET B
Automatic Potentiometric Titrator
Flagship Model

KEM SET C
Automatic Potentiometric Titrator
Low-cost Model

KEM SET D
Density / Specific Gravity Meter

KEM SET E
Refractometer



Easy Operation
Convenient & Popular 6 Models

Simple & Easy Testing

All-in-one Configuration
Budget-friendly

Gas volume
Internal gas pressure



Air content



Oxygen concentration



Inside pressure



KEM SET F
Gas Volume and
Air Content Analyzer



Automatic Potentiometric Titrator **AT-710M**

KEM SET

A High-end Model

- Easy Operation by Touch Screen
- Real-time Titration Curve
- Steps for Full Stroke: 20,000 steps
- GMP, GLP
- Rich Line Up of Electrode and preamplifier



Acidity, Alkalinity: Combined glass electrode C-171

Vitamin C: Combined platinum electrode C-272

Ca & Mg: Photometric sensor with Photometric preamplifier

Calcium Ion Selective Electrode I-171 and Ceramic Reference Electrode R-171

Unique flexibility

4-ch Concurrent Measurement Saves Time, Space, and Cost

Connecting Automatic Potentiometric Titrator, Karl Fischer Moisture Titrator, enables multiple simultaneous titration operations!





Automatic Potentiometric Titrator **AT-710S**

KEM SET

B

Flagship Model

- Easy Operation by Touch Screen
- Real-time Titration Curve
- Steps for Full Stroke: 20,000 steps
- GMP, GLP
- Rich Line Up of Electrode



Automatic Potentiometric Titrator **AT-710B**

KEM SET

C

Low-cost Model

- Easy Measurement
- Budget-friendly Model
- Steps for Full Stroke: 20,000 steps
- Rich Line Up of Electrode



Optional Kits for KEM SET A·B·C



* For use with AT-710B, PC with AT-VWin is required.



Numbers of samples: Up to 6 for aqueous & non-aqueous samples
Up to 11 for non-aqueous samples

 Exchangeable Burette Unit **EBU-710**

Burette Size: 20mL (standard), 10mL, 5mL

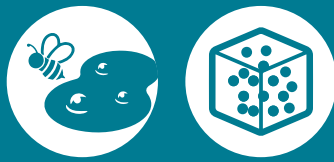


Burette Size: 20mL (standard), 10mL, 5mL

Optional Kits for KEM SET C



1



Density / Specific Gravity Meter **DA-6xx Series**

KEM SET D

- Oscillating U-tube Method
- Measuring Range: 0 to 3 g/cm³
- Accuracy: DA-650 $\pm 2 \times 10^{-5}$ g/cm³
DA-645 $\pm 5 \times 10^{-5}$ g/cm³
DA-640 $\pm 1 \times 10^{-4}$ g/cm³
- Temp. Control: 0 to 96 deg C
- Viscosity Correction



CE



KEM is world's only manufacturer of both Density meters / Refractometers and Standard Liquids.

Refractometer **RA-6xx Series**

KEM SET E

- Measuring Range :
RA-620 | Brix 0.00% to 100.00%, nD 1.32000 to 1.58000
RA-600 | Brix 0.00% to 100.00%, nD 1.3200 to 1.7000
- Accuracy :
RA-620 | Brix $\pm 0.014\%$ (0 to 85.0%), nD ± 0.00002
RA-600 | Brix $\pm 0.1\%$, nD ± 0.0001
- Easy Operation by Touch Screen & Maintenance free
- Abbe meas. scale can be viewed



CE

KEM Portable Models

Another choice to Check Brix

Portable Density / Specific Gravity Meter

DA-130N

- Measuring Range: 0.0000 to 2.0000 g/cm³
- Measuring Temperature: 0 to 40.0 deg C
- Accuracy: $\pm 1 \times 10^{-3}$ g/cm³
- Battery-operated
- One-handed Operation



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Portable Brix Meter

BX-1

- Measuring Range: 0.0 to 85.0 Brix%
- Accuracy: ± 0.2 Brix%
- Easy to maintain with washing by water
- Measurement time within 2 seconds
- 30,000 times long battery time



CE

Optional Kits for KEM SET D·E



CE

- JCSS-accredited Standard Liquid
For evaluating the reliability of DA & RA

- Auto Clean & Sampling Unit **DCU-551 series**
For high-viscosity samples (Up to 50,000mPa·s)
Easier measurement & Time-saving



CE

- Multiple Sample Changer **CHD-502 series**
For high-viscosity samples (Up to 50,000mPa·s)
30 samples
Save operation steps



Gas Volume and Air Content Analyzer **GVA-700**

KEM SET F



○ Less Work

After setting the sample,
all operations are done automatically.
That relieves operators from
the heavy works such as manual shaking of a large volume of bottles.

○ Measuring Items

- 1) Gas volume/ Internal gas pressure of carbonated drink
- 2) Gas volume/ Internal gas pressure of carbonated drink, Air content and Oxygen concentration
- 3) Inside gas pressure of non-carbonated drink

* For the measurement, a compressor is required.

* For the measurement of oxygen concentration, optional Oxygen Concentration Measurement Unit is required.

○ Measuring Range

Pressure: 55 to 10cmHg, and 9.8kPa to 0.490 MPa (0.1 to 5.0 kgf/cm²G)
Temperature: 0 to 50°C

○ Accuracy:

Pressure: ± 0.001 MPa (± 0.01 kgf/cm²G)
Temperature: ± 0.05 °C

○ Supports Various Types of Containers, Metal cans, Glass bottles, and Plastic bottles.

Liquid volume: 190mL to 2.0L
Height: 90mm to 320mm
Diameter: 53mm to 110mm

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