

KEM SET for Beverage

Acidity

Alkalinity

Gas volume
Internal gas pressure
Air content
Oxygen concentration
Inside pressure

Density
Brix

Vitamin C

Ca & Mg

KYOTO ELECTRONICS MANUFACTURING CO.,LTD.

KEM SET for Beverage


Acidity


Vitamin C



Ca & Mg


Alkalinity

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


Brix


Density

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



Multiple Sample Changer **CHA-600-12**
CHA-600-18

12 samples with 2-way rinse systems for non-aqueous samples
Numbers of samples: Up to 12 for aqueous & non-aqueous samples
Up to 18 for non-aqueous samples
* For use with AT-710B, PC with AT-Win is required.



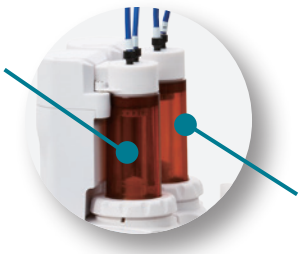
Multiple Sample Changer **CHA-700**

Space-saving compact design
Numbers of samples: Up to 6 for aqueous & non-aqueous samples
Up to 11 for non-aqueous samples
Different measurement methods from one rack to another
- Individual settings can be made for each rack, which enables you to easily perform measurement of several different samples.



Exchangeable Burette Unit **EBU-710**

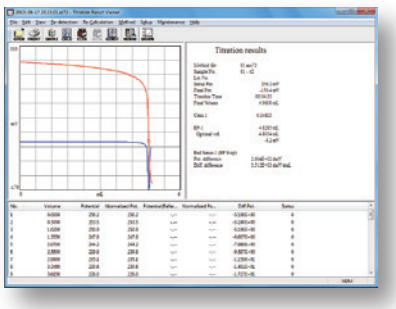
Eliminate the hassle for replacement of titrant & contamination risk
Burette Size: 20mL (standard), 10mL, 5mL



Additional Burette (2nd Burette)

Hassle free & Eliminate contamination risk
Burette Size: 20mL (standard), 10mL, 5mL

Optional Kits for KEM SET C



Windows software for AT-710 series **AT-Win**

Easier operation from your PC
Measurement data saved in your PC

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

KEM SET D



- Oscillating U-tube Method
- Measuring Range: 0 to 3 g/cm^3
- Accuracy: DA-650 ±2x10^{-5} g/cm^3
  DA-645 ±5x10^{-5} g/cm^3
  DA-640 ±1x10^{-4} g/cm^3
- Temp. Control: 0 to 96 deg C
- Viscosity Correction

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 ±0.014% (0 to 85.0%), nD ±0.00002
RA-600	Brix ±0.1%, nD ±0.0001

- Easy Operation by Touch Screen & Maintenance free
- Abbe meas. scale can be viewed

KEM Portable Models
Another choice to Check Brix

Portable Density / Specific Gravity Meter

DA-130N



- Measuring Range: 0.0000 to 2.0000 g/cm^3
- Measuring Temperature: 0 to 40.0 deg C
- Accuracy: ±1x10^{-3} g/cm^3
- Battery-operated
- One-handed Operation

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

Optional Kits for KEM SET D·E



- 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



- 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/cm^{2}G)
Temperature: 0 to 50℃

Accuracy:

Pressure: ±0.001MPa (±0.01kgf/cm^{2}G)
Temperature: ±0.05℃

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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