



KEM



KEM SET for Cosmetics

	Acid Value
	Hydrogen Peroxide
	Sodium Sulfate
	Sodium Chloride
	Surfactant

Density
SG
Concentration

	Refractive index
	Concentration

Water Content

KEM SET

for Cosmetics

Acid Value Hydrogen Peroxide
Sodium Sulfate Sodium Chloride Surfactant



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 F

Density / Specific Gravity Meter

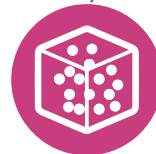
KEM SET G

Refractometer

Concentration



Density / SG



Easy Operation
Convenient & Popular 7 Models

Simple &
Easy Testing

All-in-one Configuration
Budget-friendly

KEM SET D

Karl Fischer Moisture Titrator

Coulometric method

KEM SET E

Karl Fischer Moisture Titrator

Volumetric method

Water Content





Automatic Potentiometric Titrator

- GMP, GLP conformed
- Steps for Full Stroke: 20,000 steps
- Rich Line-up of Electrode and preamplifier

Acid Value, Hydrogen Peroxide, Sodium Sulfate: Combined glass electrode C-171 (aqueous)

Acid Value, Hydrogen Peroxide, Sodium Sulfate: Combined glass electrode C-173 (non-aqueous)

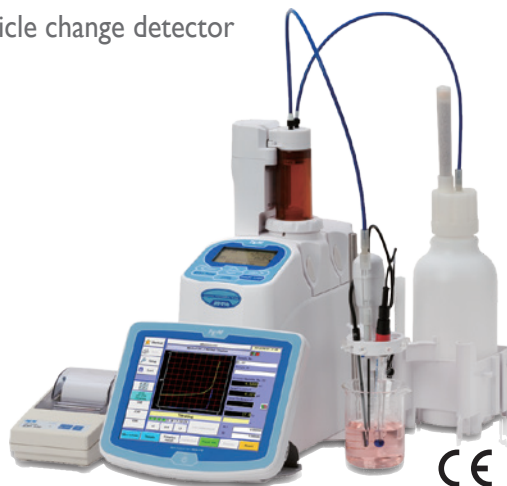
Sodium Chloride: Combined silver electrode C-373

Surfactant: Combined Surfactant Electrode S-173 or Particle change detector

KEM SET

A High-end Model AT-710M

- Easy Operation by Touch Screen
- Real-time Titration Curve
- One Screen for up to four Titrators
- No cabled connections required between Main Control Unit and Titrator



KEM SET

B Flagship Model AT-710S

- Easy Operation by Touch Screen
- Real-time Titration Curve
- No cabled connections required between Main Control Unit and Titrator



KEM SET

C Low-cost Model AT-710B

- Easy Measurement
- Budget-friendly Model





Karl Fischer Moisture Titrator **MKC-710B**

KEM SET

D

Coulometric Method

- GMP, GLP conformed
- Measuring Range: 1 μ g to 300mgH₂O
- Easy Replacement of KF reagent
- Real-time Titration Curve can be showed with Optional Touch Screen



CE

Karl Fischer Moisture Titrator **MKV-710B**

KEM SET

E

Volumetric Method

- GMP, GLP conformed
- Measuring Range: 0.1 to 500mgH₂O
- Easy Replacement of KF reagent
- Real-time Titration Curve can be showed with Optional Touch Screen



CE

Unique flexibility

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

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



Options for KEM SET A·B·C



Multiple Sample Changer **CHA-600**

Numbers of sample: 12 or 18 samples
Carousel type multiple sample changer
Equipped pre-treatment and electrode cleaning function for various applications

* For use with AT-710B, PC with optional software AT-Win is required.



Multiple Sample Changer **CHA-700**

Numbers of samples: 6 or 11 samples
Table lift-up type multiple sample changer
Space-saving compact design
Individual method settings are available for each position, which enable 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

1st burette
(Standard)



2nd burette
(Optional)

Additional Burette (2nd Burette)

Hassle free & Eliminate contamination risk

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

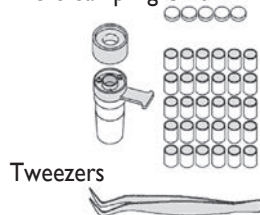
Options for KEM SET D·E



○ Evaporator **ADP-611**

Evaporator allows to measure the moisture content in powders or solid samples that cause side reactions and therefore cannot be titrated directly.

Micro Sampling Unit



○ Micro Sampling Unit

for powder sample which is difficult to take sample accurately in measurement cell by medical paper



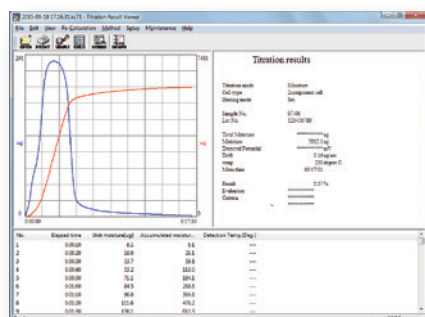
○ Karl Fischer Reagent **KEMAQUA** series

For Volumetric & Coulometric method

○ Water Standard **KEMAQUA** series

For evaluating the reliability of KF Moisture Titrators

Options for KEM SET C·D·E



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

○ Windows software for MKV-710/MKC-710 series **KF-Win**

Easier operation from your PC
Measurement data saved in your PC



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

KEM SET

F

- 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



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



Refractometer **RA-6xx Series**

KEM SET

G

- 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



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KEM Portable Models

Another choice to Check
Density/SG/Refractive Index/Concentration

Portable Density / Specific Gravity Meter

DA-130N

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

Portable Refractometer

RA-130

- Refractive Index, Concentration
- Measuring Range (nD): 1.3200 to 1.5000
- Accuracy (nD): ± 0.0005
- Compact Size / Light Weight



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Options for KEM SET F·G



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- **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

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