



KEM



KEM SET for Palm Oil

			<p>Free Fatty Acid Saponification Value Iodine Value Peroxide Value</p>
	<p>Water Content</p>		
			 <p>Density / SG Refractive Index</p>

KEM SET

for Palm Oil

Free Fatty Acid
Iodine Value

Saponification Value
Peroxide Value



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

Refractive Index



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

Free Fatty Acid, Saponification Value: Combined glass electrode C-173

Iodine Value: Combined platinum electrode C-272

Peroxide Value: POV titration unit for Erlenmeyer flask

Combined platinum electrode C-272 for beaker

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



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



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

Ist 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



NON-CE

Heat Extractor **ADP-344**

This mantle heater for volumetric Karl Fischer titration cells ensures the complete extraction of the moisture of samples which solidify at room temperature.



NON-CE

Evaporator for Oil Samples **ADP-513**

For high-viscosity petroleum products



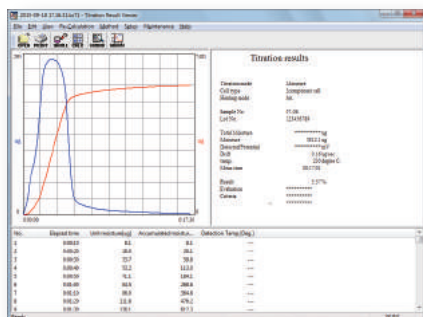
Karl Fischer Reagent **KEMAQUA** series

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



CE

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



CE

KEM Portable Models

Another choice to Check
Density / SG / Refractive Index

Portable Density / Specific Gravity Meter

DA-130N

- Density / SG
- 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



Options for KEM SET F·G



- **JCSS-accredited Standard Liquid**
For evaluating the reliability of density meter & refractometer
- **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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