



Density Value

TAN & TBN

Water Content

Refractive Index

KEM SET for Petroleum

Simple & **E**asy **T**esting



KEM

KEM SET for Petroleum

Simple & Easy Testing

Convenient
& Popular
6 Models

Preprogram
med Method

Budget-
friendly

Easy
Operation

All-in-one
Configuration

KEM SET-A
Density Value

ASTM D 1250,
D 4052, D 5002

Oscillating U-tube Method,
Viscosity Correction

KEM SET-B
TAN & TBN

ASTM D 664
ASTM D 2896

Potentiometric Titrator
Control on Touchscreen

KEM SET-C
TAN & TBN

ASTM D 664
ASTM D 2896

Potentiometric Titrator
Control from Your PC

KEM SET-D
Water Content

ASTM D 4928

Karl Fischer Moisture Titrator
(Coulometric)

KEM SET-E
Water Content

ASTM D 1744

Karl Fischer Moisture Titrator
(Volumetric)

KEM SET-F
Refractive Index

ASTM D 1218
ASTM D 1747

Refractometer

DA-645



- Digital Density Meter
- Oscillating U-tube Method
- Viscosity Correction
- Preprogrammed Petroleum Meas. Tables (ASTM D 1250)
- Accuracy $\pm 5 \times 10^{-5} \text{ g/cm}^3$
- ASTM D 4052, D 5002

☺ **KEM is world's only manufacturer of both Density Meters and Standard Liquids.**

Optional Kits for KEM SET-A



- Recommended kit for consumables for 2 years includes:
 - ✓ Standard liquid (pure water)
 - ✓ Sampling & drain tubes, tube joints
 - ✓ Silica gel

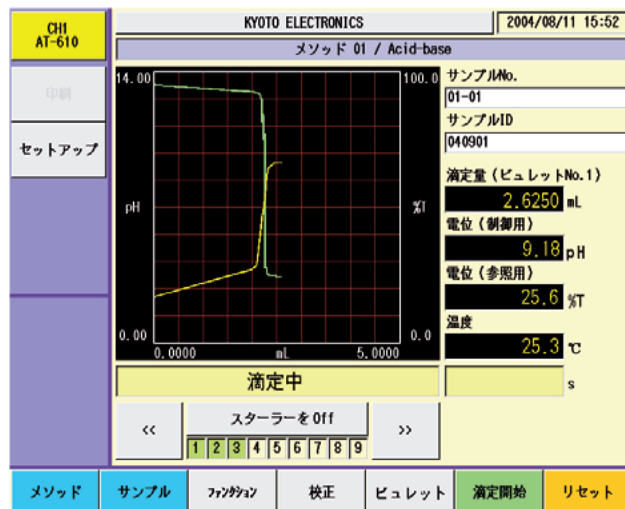
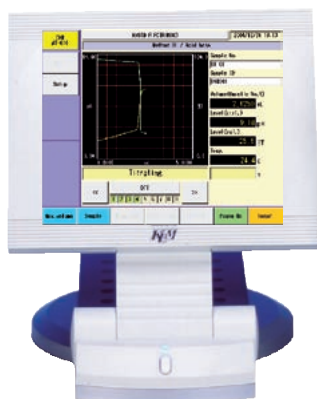


- Auto Clean & Sampling Unit (DCU-551)
 - ✓ Recommended kit for measurement of high-viscosity samples
 - ✓ Easier measurement & time-saving tool
 - ✓ High Temperature up to 80°C available

KEM SET-B TAN & TBN



AT-610-ST



(Display Image)

- TAN & TBN Analyses by Potentiometric Titrator
- Easy Operation on Touchscreen
- Real-time Titration Curve
- High-precision Burette (100% Burette Inspection)
- ASTM D 664, D 2896
- Measurement with options: bromine number, mercaptan, total hardness, chloride ion

Optional Kits for KEM SET-B

- Recommended kit for consumables for 2 years includes:
 - ✓ Tubes
 - ✓ Electrode for nonaqueous titration
- Multiple Sample Changer (CHA-600-12)
 - ✓ Up to 12 samples with rinse systems
 - ✓ Easier measurement & time-saving tool
- Connecting with Karl Fischer Titrator
 - ✓ Simultaneous titrations
 - ✓ Coulometric or Volumetric



CE

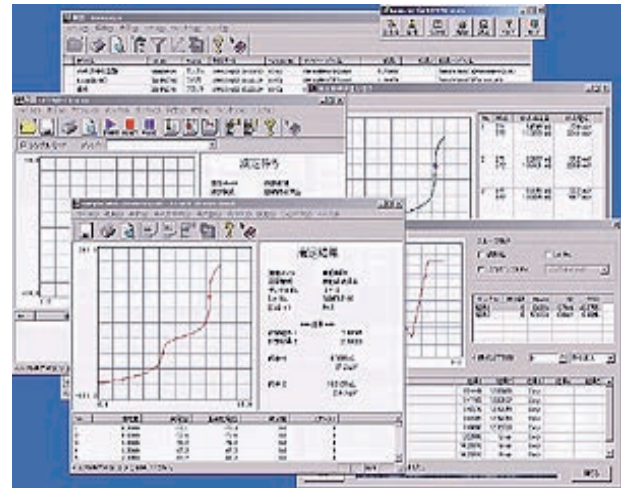
AT-500N-1



● TAN & TBN Analyses by Potentiometric Titrator

KEM SET-C
TAN & TBN

AT-Win Display



- Easy Operation
- Simple Measurement
- Budget-friendly Model
- High-precision Burette (100% Burette Inspection)
- AT-Win (software) enables easier operation from your PC.
- ASTM D 664, D 2896

Optional Kits for KEM SET-C

- Recommended kit for consumables for 2 years includes:
 - ✓ Tubes
 - ✓ Electrode for nonaqueous titration
- Multiple Sample Changer (CHA-500-12)
 - ✓ Up to 12 samples with rinse systems
 - ✓ Easier measurement & time-saving tool

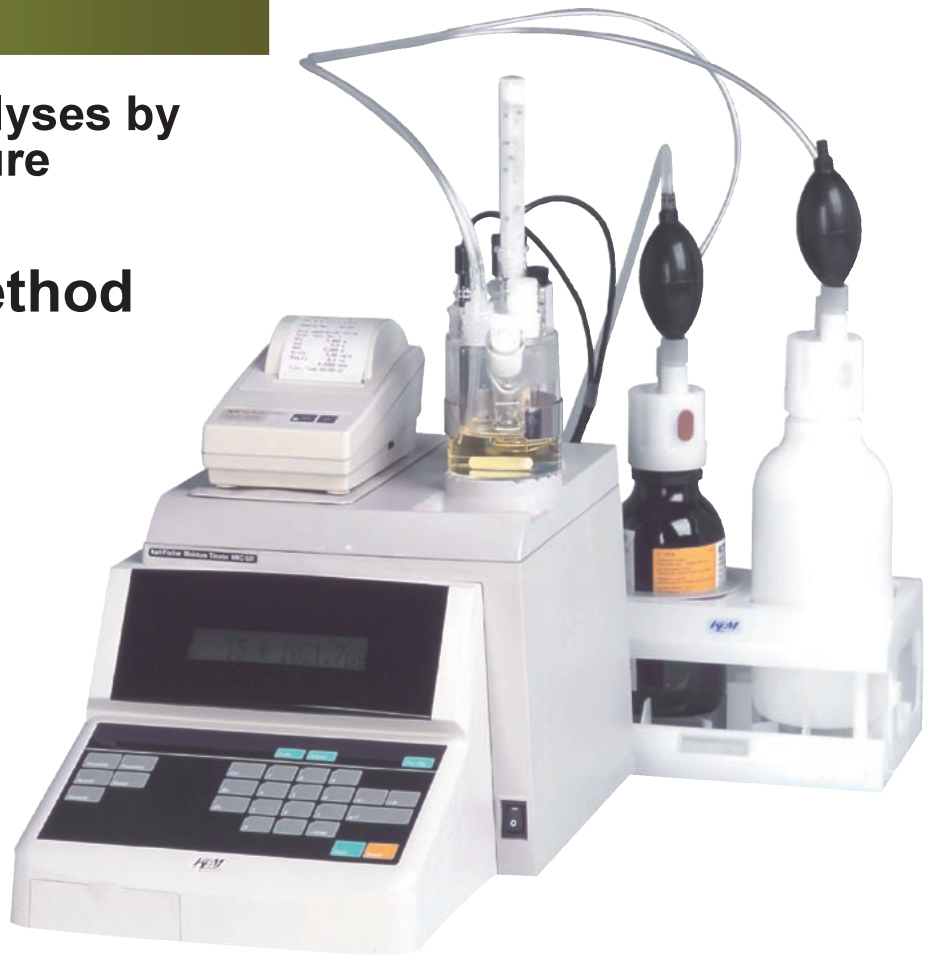


- Water Content Analyses by Karl Fischer Moisture Titrator
- Coulometric Method

KEM SET-D Water Content

CE

MKC-501-D



- Range 10ug to 100mg H₂O
- Easy Operation
- Simple Measurement
- ASTM D 4928

Optional Kits for KEM SET-D

- Recommended kit for consumables for 2 years includes:
 - ✓ Twin platinum electrode
 - ✓ Inner burette
- Evaporator for Oil Samples (ADP-513)
 - ✓ ASTM D 6304
 - ✓ For high-viscosity petroleum products
 - ✓ Not CE certified



CE

MKS-500



- **Water Content Analyses by Karl Fischer Moisture Titrator**

- **Volumetric Method**

KEM SET-E
Water Content

- **Range 0.1mg to 500mg H₂O**
- **Easy Operation**
- **Simple Measurement**
- **High-precision Burette (100% Burette Inspection)**
- **ASTM D1744**

Optional Kits for KEM SET-E

- **Recommended kit for consumables for 2 years includes:**
 - ✓ **Twin platinum electrode**

- **Refractive Index Analyses by Digital Refractometer**

RA-600

KEM SET-F
Refractive Index



😊 **KEM is world's only manufacturer of both Refractometers and Standard Liquids.**

- **Range (nD) 1.3200 to 1.7000**
- **Sample temp. 5 to 75 deg C**
- **Easy Operation on Touchscreen**

Optional Kits for KEM SET-F



✓ **Refractive index standard liquid**