

# COULOMETRIC KARL FISCHER TITRATOR

## Test Method

Determines low concentrations of water in a wide range of liquid, gas and powder samples. Used for assessing water content in petroleum and petrochemical products including oils, gasolines, solvents, and fluids as well as other products such as pharmaceuticals and cosmetics.

## Coulometric Karl Fischer Titrator

- ASTM D 1533, D4928, D6304, IP 386, IP 438, API MPMS Chap. 10.9, BS 60814, ISO 10101-3, ISO 10337, ISO 12937
- Simple operation
- Multi-language display and print out
- Integral high-speed thermal printer
- Small footprint
- Automatic Compensation of Errors

The AKF5000 offers new standards in versatility and ease of operation. Providing fast, accurate and reproducible determinations of water content in liquids, gases and powders. This easy to use titrator incorporates many state-of-the-art features. Designed to be equally suitable for meeting the routine needs of the Quality Control laboratory or the more demanding and varied requirements of research applications. Hard copies of results are provided by the built in high-speed thermal printer, along with statistics, data input parameters, sample ID numbers and time/date of analysis.

### Ordering Information

#### Catalog No.

**K90365** AKF5000 Compact Coulometric Karl Fischer Titrator,  
115-240V 50/60Hz

#### Included Accessories

Glassware pack comprising twin port titration vessel, detector electrode, generator electrode, dessicant tube, molecular seive, stirrer bar, injection septa, funnel & 1ml glass syringe with luer needle.

#### Accessories

**K90365-7** Gas Analysis Kit  
(Comprised of gas inlet, gas outlet, seal ring & cap)  
**K90365-8** Carry Case  
**K90365-20** Formula Reagent Kit (Pack of 8 x 100ml anode reagent,  
8 x 5ml cathode reagent)  
**K90365-35** Water Standard, 0.1 mg/ml, 5ml, pk/10  
**K90365-36** Water Standard, 1.0 mg/ml, 5ml, pk/10

## Specifications and Features

Titration method: Coulometric Karl Fischer titration

End point detection: AC polarisation

End point indication: Visual display/print out/acoustic beep

Display: 40 character alphanumeric backlit LCD

Measuring range (possible): 1µg – 100mg water

Measuring range (typical): 1µg – 10mg water

Moisture range: 1 ppm – 100%

Max. sensitivity: 0.1 µg

Max. titration speed: 2.0 mg per minute

Max. current: 400 ma

Drift compensation: Automatically controlled

Start delay time: 0 - 30 minutes, user selectable

End delay time: 0 - 30 minutes, user selectable

Power supply: 90-264VAC, 47-63Hz Universal input **CE**

Precision: 10-100µg ±3µg, 100µg-1mg ±5µg,  
above 1mg ±0.5%

Calculation modes: Weight/weight, user programmable

Weight/dilution ratio, user programmable

Volume/density, user programmable

Volume/volume, user programmable

Display format: µg, mg/kg, ppm, %

Print format: µg, mg/kg, ppm, %

Statistics: max, mean, min values upto 99 runs

Method storage: 10 user programmable methods

Sample ID number: user programmable

Printer: 42 character high-speed thermal printer

Stirrer speed: Microprocessor controlled

Dimensions: 250 x 245 x 120 mm

Weight: 3 kg

Language: English, Francais, Espanol, Portugues,  
Deutsch and Magyar

Calendar/clock: Analysis time and date print out