Kam Controls Incorporated®
simple precision™

KAM® KF KARL FISCHER MOISTURE ANALYZER

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PER API MPMS 10.9, ASTM D4928, and EI 386

Easy to use and fully automatic, KAM® Karl Fischer MoistureAnalyzers totally eliminate the troublesome procedures involved with conventional water determinations. Because they incorporate a special electrolysis current-control system, KAM® moisture analyzers ensure the fast and accurate measurement of even trace water content. KAM® moisture analyzers are available in lab (LKF) and portable models (PKF), both of which utilize the coulometric principle applied to Karl Fischer titration.

KAM® moisture analyzers rapidly and accurately determine the water content of liquid hydrocarbons for all custody transfer operations: production, pipeline, marine, or truck. They can also be used to analyze crude oils, refined products, transformer oils, jet fuels, chemicals, and most other liquids.

In the plant, the moisture analyzers can monitor the moisture content of streams during start-ups, shut downs, upsets, and normal operations. KAM® moisture analyzers are especially helpful in units where machinists use expensive catalysts as part of a preventative maintenance program. KAM® moisture analyzers also detect cooling water leaks before they become severe enough to damage equipment.

KEY KAM® ADVANTAGES

- Fully automatic operation
- Automatic electrolysis control and blank current control system
- No reagent calibration and no burettes required
- 5-digit digital display
- Bar-graph meters monitor progress of titration
- Titration cell assembly
- Portable model has 10 hours continuous operation on rechargeable battery

KAM CONTROLS IS AN ISO 9001 CERTIFIED COMPANY

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KAM® LKF Lab Karl Fischer Moisture Analyzer

KAM® PKF Portable Karl FischerMoisture Analyzer

Homogenizer

Reagents: Generator solution A, Generator solution C, and Check solution

SPECIFICATIONS

Method:	Coulometric Karl Fischer titration
Detection:	Polarization detection
Control:	Automatic electrolysis current control
Display:	5-digit display, µg H2O or 0.1, 0.2, 0.5, 1.0 ml volume % H2O
Sample size:	0.1, 0.2, 0.5, 1.0 ml for direct reading of volume % H2O, or less than 2 grams (or ml)
Range:	10µg - 100,000µg H2O (i.e. for a 100µg sample, the direct display is 0.0010% to 10% H2O)
Sensitivity:	1 µg H2O
Precision:	±5µg for 10µg - 1000mg, 0.5% (C.V.) for over 1000µg (meets or exceeds API MPMS 10.9, ASTM D4928, and EI 386)
Titration speed:	1000lg H2O/min. (max. at high H2O concentrations)
Power requirements:	Operates on either AC or DC. AC - 110/120, 220/240 V, 50/60Hz DC - Rechargeable battery for portable model (12-14V)
Dimensions:	Approx. 15" x 10"x 9" (381mm x 254mm x 229mm)
Weight:	Lab model - approx. 10 lbs. (4.5 kg) Portable model - approx. 20 lbs. (9 kg)

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