# **Kam**<sup>®</sup> Simple Precision™

### **APPLICATION: DETERMINATION OF MOISTURE IN TRANSFORMER OILS**

The KAM<sup>®</sup> KF Karl Fischer Moisture Analyzer is a key component of preventative maintenance with transformer oils. The presence of moisture in transformer oils reduces the dielectric strength of the oil and accelerates the degradation of paper insulation. Therefore, periodic testing for moisture is an important diagnostic tool for system integrity and longevity. Because of its high degree of accuracy with very low water levels, coulometric Karl Fischer titration is the preferred methodology for determination of water in transformer/insulating oils.

KAM has been manufacturing Karl Fischer coulometric titrators for over 30 years. KAM units are in use across the globe in a wide variety of field and laboratory applications.



KAM® KF Karl Fischer Moisture Analyzer PER ASTM D1533



### KEY FEATURES

- •Data storage for up to 100 samples
- •USB port
- Fully portable with 10-hour battery life
- •Automatic reagent expiration notification
- •Consumables storage
- •Bluetooth®
- Windows based software
- Spanish/English menu options
- Optional printer

KAM sells the highest quality reagents available, pre-measured to the proper volumes for immediate use and quick replacement Kam<sup>®</sup> KF Karl Fischer Moisture Analyzer

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## **STEPS**

1. Turn the unit on. The main menu will appear on the display.

2. On the menu items, ensure that Sample Size reads "1.0" and Titration Mode reads "ml."

3. Navigate to "Start Titration" and press "Enter." The unit will automatically titrate any ambient moisture in the reagent and beep when complete.

4. After fully flushing syringe with the sample three times, draw the sample into the syringe slightly beyond the 1 ml mark.

5. Slowly depress plunger to expel the extra fluid and air bubbles. Stop when fluid level exactly meets the 1 ml marker.

6. Press "New Sample" on the keyboard. A countdown will begin, and you will have a thirty-second window to inject the sample.

7. Insert the tip of the needle into the sample injection port and inject the sample into the reagent.

8. Titration begins automatically. When it is done the machine will beep. Sample value will be displayed as well as recorded in the unit by date and time.

See KAM KF User Manual for full instructions. Analysis should be conducted in accordance with ASTM test method D1533 at all times.

#### FOR MORE INFORMATION ON KAM PRODUCTS

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## **SPECIFICATIONS**

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KAM CONTROLS IS AN ISO 9001 CERTIFIED COMPANY