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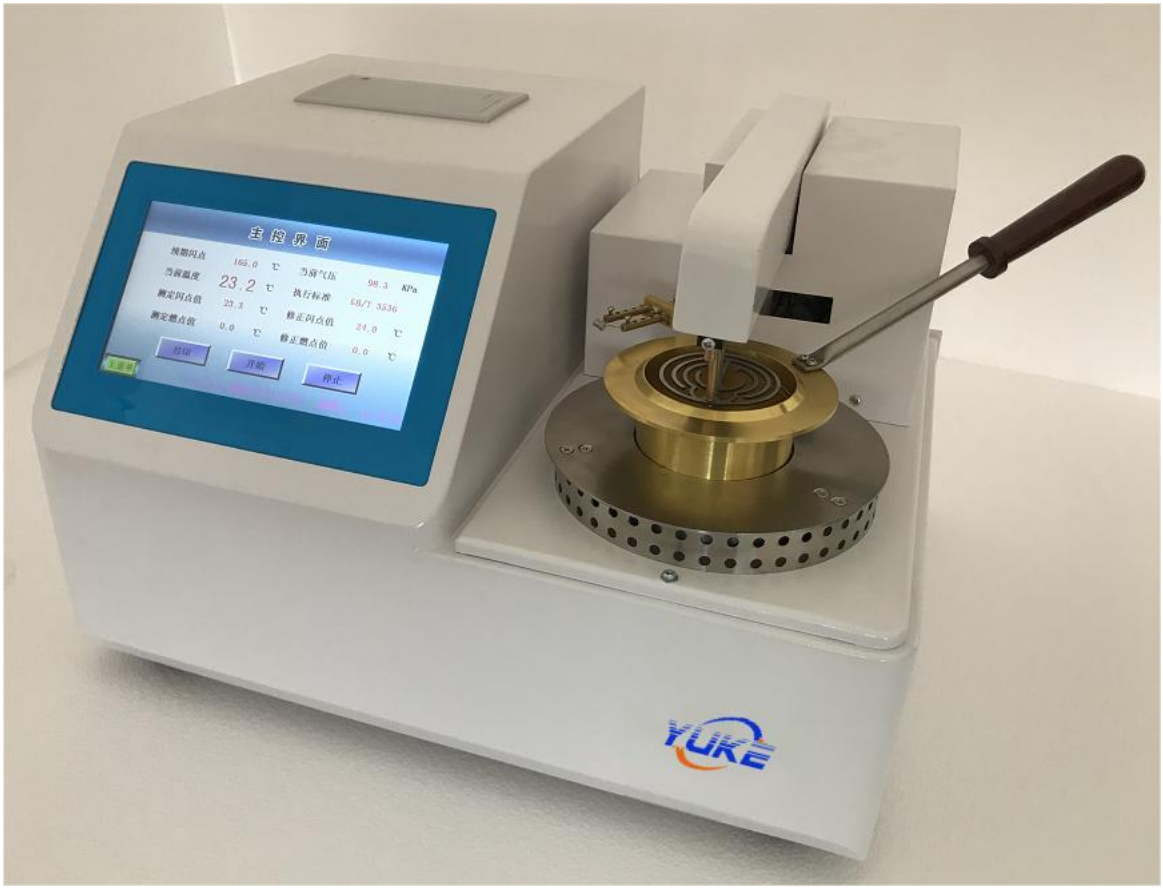
YK-4111
Open-Cup Flash Point Tester



The YK-4111 fully automatic open flash point tester is used to determine the open flash point and ignition point of petroleum products. The instrument uses electric ignition, requiring no flammable gas, and fully complies with the method requirements of ASTM D92 (GB3536-2008) and GB267-88. It employs a high-performance ARM series microprocessor, electrically erasable memory (capable of storing tens of thousands of data records), a color LCD display and touchscreen, PID self-tuning, and other cutting-edge technologies. This gives the instrument the following features:

1. Powerful Functionality: It can simultaneously detect flash point and ignition point, and print test results. It has an internal clock chip that automatically displays the current date and time, and retains the time even after power failure.
2. High Accuracy: Temperature error is controlled within ±1.5℃, with a resolution of 0.1℃.
3. Good Repeatability: Under conditions where the testing environment complies with GB3536 (ASTM D92) or GB/T 267-88, the flash point values of consecutively tested samples differ by ≤4℃.

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4. High Degree of Automation. It can automatically complete the testing process, automatically cool, and automatically provide information prompts. The open-cup flash point tester's functions and performance are in line with the highest domestic and international standards, making it a specialized instrument for industries such as petroleum, power, chemical, and commodity inspection to replace imported products.

I. Instrument Features

1. The display uses an original imported 7.0-inch true-color TFT-LCD screen; the keyboard uses a human-sensing touchscreen. The all-Chinese operating interface is clear, intuitive, and easy to operate with smooth touch control.

2. Historical data storage uses an NVM data storage device, capable of storing 20,000 historical data points. Data is preserved for 10 years without loss and cannot be altered.

3. The printer uses a miniature embedded thermal printer, resulting in quieter, faster, and clearer printing.

4. Temperature measurement and control uses an original imported PT100 platinum resistance temperature sensor, a high-precision AD converter, an excellent linearization mathematical model, and a unique control algorithm, making temperature measurement and control faster, more accurate, and more stable.

5. Ignition uses direct electronic flame ignition, identical to gas flame ignition, ensuring safety, convenience, speed, reliability, and no interference.

6. Flash fire detection uses high-frequency ion ring flame detection technology, enabling rapid and accurate capture of the instantaneous flash fire of the sample, avoiding false detections and missed detections.

7. Atmospheric pressure measurement utilizes a fully digital atmospheric pressure sensor imported from Germany, measuring local atmospheric pressure in real time and automatically correcting for the impact of atmospheric pressure changes on the measurement data.

8. Automatically completes operations such as heating, detection, calculation, and printing.

II. Technical Parameters

Measurement Range: Room temperature - 400℃
Temperature Detection: Platinum resistance thermometer
Sensitivity: 0.1℃
Repeatability: Complies with GB3536-2008 (ASTM D92), GB/T 267-88

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Display: 7-inch color LCD touchscreen
Information Storage: Stores 20,000 measurement results
Ignition Method: Electric ignition
Cooling Method: Forced air cooling
Printer: Chinese character display, 40 lines
Self-test Functions: Lifting lever, sweeping lever, printing, etc.
Power: ≤600VA
Power Supply: AC 220V±11V, frequency 50Hz±2.5Hz
Ambient Temperature: 10~35℃

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