AWD-EFP510 Automatic Tag Closed Cup Flash Point Tester

ASTM D56

EFP510 automatic Tag closed flash point tester is designed and manufactured according to the requirements specified in the national standard GB/21929 and ASTM D56. Suitable for the determination of petroleum products and other liquids at -30℃ ~ 100℃.

Performance Characteristics:

1) Dual control system: The instrument adopts the hardware system of industrial computer plus single chip microcomputer. The single chip microcomputer is used to realize the control of heating process and the collection of sensor data, which makes the test real-time and the test results more accurate. The industrial computer as the overall system control makes the instrument more reliable, the industrial computer has 256M memory, 4G hard disk, not only running speed block, but also large data storage. Windows10IOT operating system is adopted, and the software uses the full Chinese operation interface (can be changed into English interface), which is easy to understand.

2) Multi-interface: For the convenience of users, it provides a variety of communication interfaces such as RS-232, USB and RJ-45, which can be connected to LIMS system, LAN and Internet; Through the USB interface can not only directly upgrade the system software, but also export the test results data; The test result report can be printed directly by connecting the laser printer.

3) True color display: using 24-bit true color TFT LCD screen and touch screen to make it more convenient for users to operate, but also equipped with a mouse and disk.

4) Dual ignition mode: The ignition mode adopts electronic ignition or gas ignition. Users can choose by themselves. Electronic ignition and gas ignition have no difference in test results.

5) Gold-plated components: oil cup and cup cover components made of gold-plated, not only more beautiful, but also higher temperature resistance, more convenient maintenance.

6) Separate independent design: The cup cover assembly, flash point sensor and temperature sensor all adopt separate independent design, which is more convenient to replace the parts (users plug and play).

7) Import of key components: the temperature sensor adopts the sensor imported from Germany, so that the detection is more reliable and stable, and the data is more accurate. The key mechanical structure of the internal mixing drive adopts the parts imported from Japan.

8) Self-examination and self-diagnosis: when the instrument is turned on, it will automatically check the flash point sensor, Pt100 oil temperature sensor, electronic igniter, system hot fuse, etc.; At the same time, the ignition action, stirring arm action, cooling and heating system startup/reset, etc. If there is a fault or abnormal connection, the instrument will emit a buzzer alarm and the screen text prompts "××× abnormal, please check whether the connection is normal".

9) The test process is intuitive: the instrument can display the temperature rise rate per minute (number and graph curve form can be converted), the temperature rise rate fully meets the requirements of 1℃/min in the standard.

10) overheating protection: the instrument has overheating protection function. If the pre-safety temperature (safety alarm temperature) is exceeded, the sound and light alarm will be issued but the test can continue; When the temperature exceeds the safe temperature (test stop temperature) or the absolute safe temperature (400℃), the sound and light alarm will be issued and the test will be stopped. At the same time, the cooling fan will be started for forced cooling to prevent fire and other accidents.

11) The test results are intuitive: the instrument has the function of atmospheric pressure correction; With powerful data storage query function; The instrument can store tens of thousands of test results, which can be queried by time, oil sample and experimenter.

Technical Parameters:

- Applicable Standard: GB/ T21929 & ASTM D56
- Test Range: -30℃ ~ 100℃ or 0 ~ 100℃
- Temperature Detection: Platinum resistance (PT100)
- Display Mode: 6.4 "TFT LCD
- Heating Rate: 1℃/min or 3℃/min
- Display Accuracy: 0.1℃
- Ignition Mode: electronic ignition or gas ignition
- Ambient Temperature: 10-40 ℃
- Relative Humidity: ≤80%
- Host Power Consumption: ≤450W
- Low Temperature cycle refrigerator: ≤1200W
- Power Supply: AC 220V±10% 50Hz
- Weight: 25 kg

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