STALWART

Coulometric KF Titrator
STC-931K

Description

STC-931K utilizes the Karl Fischer coulometric method, which can be used to accurately analyze the water content in solids and liquids, with reliable results and a wide measurement range (0.001%-100%). Equipped with a 10-inch TFT touch screen, it is easy to operate. It adopts multiple safety designs to avoid contact between operators and toxic reagents. It can be widely used in petroleum, chemical, food, cosmetics, pharmaceuticals and other fields.

Features

10-inch TFT Android touch screen

The user-friendly human-computer interaction design, is easy to operate, can flexibly click the parameters to be set and changed, and can swipe left and right to view rich data content and improve work efficiency.
Modular menu list, which can quickly and accurately enter each sub-interface,ensuring efficient navigation and seamless operation.
During sample test, the instrument displays real-time test curves, parameters, and analysis results, allowing users to monitor the entire titration process in real-time.
Supports multiple result units: mg%, ppm, H2O, mL, mg/mL, mg / g, etc. Equipped with a data retrieval function for quick access to historical records.

V-T and E-T can be switched for analysis experiments at any time, and the curve can be enlarged or reduced manually. 8G storage space can be used to store experimental methods, data, traceability documents and others.

Sealed and Secure reagent management system

Automatic replacement of the reagent can be realized without opening the reaction cup, preventing the moisture in the air from entering the titer cup. After replacing the reagent, the balance time is short to reduce the contact between the operator and the toxic reagent.

With various specifications of injection ports to meet the injection methods of different samples.

With the waste liquid overflow prevention device to prevent the waste liquid bottle from overflowing when full.

Comes standard with a magnetic stirrer, supporting both manual and automatic stirring for enhanced titration efficiency.

Plug-in reagent bottle anti-fall rack, which can be freely combined and compatible with 250mL, 500mL, and 1000mL reagent bottles.

Built-in multiple methods and one-click quick operation

The instrument is pre-set with multiple analysis methods, such as titration degree, blank value, water content, etc., which can be quickly started with just one click, without the need to manually start water content measurement. After the sample is added, the equipment can automatically sense the sample and start the measurement. Additionally, users can customize analysis parameters based on specific sample requirements for greater flexibility.

Features

Multiple electrolysis currents

Equipped with electrolysis current settings, it can automatically switch the electrolysis current according to the different water content for the experiment.

Multiple end-point judgment logics

It has four judgment logics: relative drift stop, absolute drift stop, delay judgment, and maximum time stop. These flexible criteria enable precise and reliable testing, even for complex or challenging samples, ensuring accurate analysis results.

Compliance with FDA 21 CFR Part 11

Equipped with audit trial, all effective operations performed on the instrument are recorded in the backend.
It has four levels of permission management function, and each level can also customize and select corresponding permissions.
It has functions such as electronic signature and data tamper proof output, ensuring secure and verifiable data integrity.

Equipped with password security settings, it can set a password expiration date. After expiration, it can be required to change the password forcibly before continuing to use the instrument. It can also set the password complexity and password aging time.

Equipped with screen saver function, it can set a time to lock the screen, and the instrument background can still work when the screen is locked.

Multiple interfaces such as WiFi, USB, RS232, BNC, etc., can be connected to a WiFi printer for remote printing, and can also be connected to a mouse and keyboard to operate the instrument. It supports WiFi printing and RS232 connection printing.




Specification

Model	STC-931K
Assay method	Coulometric method
Water content measurement rang	0.001%~100%
Recommended water content measurement range	10μgH2O~200mgH2O
Polarization current range	1~24μA
Polarization current resolution	0.01μA
Polarization current error range	0.05μA
Voltage range	0-1999mV
Voltage resolution	0.1mV
Voltage error range	±0.2mV
Electrolysis current	10 mA, 20 mA, 50 mA, 100 mA, 200 r and 400 mA
Maximum electrolysis rate	37.34 ug H2O/s (2240 ug H2O /min)
Electrolysis accuracy	≤0.2%
Electrolysis resolution	0.1 μg H2O
Number of methods	150
Export format	Excel, PDF
Display mode	10-inch TFT, capacitive screen
The map shows that	E-T
Drift correction function	Manual, automatic, and closed
Compliance with the FDA 21 CFF pat 11	Yes
Audit trial	Yes
Authority management	Four-level authority (super administrat supervisor, operator, IT)
Subscriber number	30
Storage space	8G
Sample cell	200mL
Communication interface	WiFi, USB, Ethernet, RS232, and BN