

## SKZ1043 Automatic Potentiometric Titrator



Used for the detection of index with potential capacity analysis, can be used as special instrument for the detection of penicillin, by measuring the change in electrode potential, to measure the ion concentration, widely used for the pharmaceutical industry, food industry, petrochemical industry, metallurgy, environmental protection, electroplating materials industry.

### **Main functions**

1. Titration type of chemical reaction: acid-base titration, redox titration, complexometric titration and precipitation titration.
2. Different titration solvent: aqueous and non-aqueous titration titration.
3. Titration different ways: chemical titration, determination of penicillin, penicillin and penicillin degradation measurement calibration

### **Principle:**

By measuring the change in electrode potential, to measure the ion concentration.

First, choose the appropriate indicator electrode and a reference electrode, and the test solution formed a working battery, then add titrant. In the titration process, due to a chemical reaction, the measured ion concentration is changing, thus indicating electrode potential changes. Near the end of the titration, ion concentration measured mutation, causing the electrode potential jump, therefore, according to the electrode potential to determine the titration end point, measured results

**Features:**

1. With LCD display, display test parameters and measurement results
2. With pre-titration, endpoint titration preset, blank titration or manual titration functions and can be used to generate special titration according to user mode
3. Different electrode can be used: acid-base titration, redox titration, precipitation titration, complexometric titration, and other non-aqueous titration and pH measurement
4. Mixing system using PWM modulation technology, low noise
5. There are RS-232 communication interface can be accessed TP-16, print the test data and calculation results titration curve
6. Titration can use special software and computer communications, real-time display on the computer. In addition, titration mode can be edited and modified for remote control operation, and the calculation of a variety of statistical results
7. Perchloric acid titration system with anti-corrosion materials, can be a variety titration reaction

**Technical parameters**

Instrument level		0.001Grade
Measurement parameter		pH value,mV(ORP),Temp. value
Measure range	pH	(0.00~14.00) pH
	mV	(-1800.0~1800.0) mV
	Temp.	(-5.0~105.0) °C
Resolution	pH	0.01pH
	mV	0.1mV
	Temp.	0.1°C
Accuracy	pH	±0.01pH±1bit
	mV	±0.03%FS
	Temp.	±0.3°C±1bit
Buret Drive	titration repeatability	0.2%
	titration Sensitivity	±2mV
	titration Capacitance tolerance	10ml Buret: ±0.025ml, 20ml Buret: ±0.035ml
	Buret Resolution	10ml Buret: 1/10000, 20ml Buret: 2/10000
	Burette infusion or infusion rate	(50±10)s (burette full scale)
Stability		(±0.3mV±1 bit)/3h
Power supply		AC (220±22)V, (50±1)Hz
Overall chassis number		WXS-A002-1
Dimensions (mm), weight (kg)		340×400×400, 10