

SKZ1039C Multi-wavelength Automatic Polarimeter



Polarimeter is the testing instruments to measure the optical rotation of material. By measurement of optical rotation of the sample can be analyzed to determine the concentration of substance, the content and purity. Widely used in pharmaceutical, drug testing, sugar, food, spices, MSG and chemical and oil industry.

Features:

1. With multi-wavelength selection function, on the basis of a conventional 589nm wavelength, adds 405nm, 436nm, 546nm, 578nm, 633nm
2. Temperature control device: built-in a heating and cooling device, with accessory of temperature control tube, to achieve temperature controlled measurement of the sample rotation.
3. Large LCD touch screen display
4. Provides WINDOWS user interface, simple and intuitive, stable and reliable.
5. Using life of more than 5000h diode as a light source, instead of the previous sodium lamp and Halogen, which life is short, easy to damage and high temperature.
6. Sample chamber temperature and the ambient temperature consistent to avoid errors caused by heating
7. Using the most advanced digital circuit and microcomputer control technology, backlit LCD display, clear and intuitive test data,
8. Dark-colored sample can be measured.
9. Calculation of average values

Specifications

Type	SKZ1039C
Test items	Optical rotation, specific rotation, concentration, Brix
Storage test results	1500 times, average and root mean square
light source	Light emitting diode + The interference filter with high precision
Output	USB and U disc
U disc output	Pictures or data format files
Wavelength	589nm and 546nm Optional: 405 nm, 436nm, 578nm, 632nm
Test range	$\pm 89.999^\circ$ (Optical rotation)
Minimum reading	0.001° (Optical rotation).
Accuracy	0.02 grade $\pm 0.01^\circ$ ($-15^\circ \leq \text{Optical rotation} \leq +15^\circ$) $\pm 0.02^\circ$ (Optical rotation $< -15^\circ$ or Optical rotation $> +15^\circ$)
Repeatability	0.002° ($-45^\circ \leq \text{Optical rotation} \leq +45^\circ$) 0.005° (Optical rotation $< -45^\circ$ or Optical rotation $> +45^\circ$)
Length of Test Tube	200mm and 100mm, 100mm (temperature control)
Mini. sample transmittance	1%
Temperature controll range	15°C - 30°C
Temperature Accuracy	$\pm 0.5^\circ\text{C}$
Display	7-inch LCD touch screen color dot-matrix display
Operation system	Windows
Power	$220\text{V} \pm 22\text{V}$ $50\text{Hz} \pm 1\text{ Hz}$
Overall Dimensions	710mm×365mm×235mm
Weight	37kg