

SKZ1039 Digital 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. 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.
2. Sample chamber temperature and the ambient temperature consistent to avoid errors caused by heating (B type)
3. Using the most advanced digital circuit and microcomputer control technology, backlit LCD display, clear and intuitive test data,
4. Dark-colored sample can be measured.
5. Need not pre-warm when turning on.(B type)
6. Calculation of average values

Specifications

| | SKZ1039A | SKZ1039B |
|----------------------|--|--|
| Test items | Optical rotation, Brix | Optical rotation, specific rotation, concentration, Brix |
| Storage test results | Three times, average | 6 times, average and root mean square |
| light source | Light emitting diode + The interference filter with high precision | Light emitting diode + The interference filter with high precision |
| Output | RS232 | USB |

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|------------------------------|---|---|
| Wavelength | 589nm (Sodium D spectroscopy) | 589nm (Sodium D spectroscopy) |
| Test range | ±45° (Optical rotation) ±120°Z(Brix) | ±45° (Optical rotation) ±120°Z(Brix) |
| Minimum reading | 0.001°(Optical rotation). 0.01°Z (Brix) | 0.001°(Optical rotation). 0.01°Z(Brix) |
| Accuracy | ± (0.01 + measured value ×0.05 %)°(Optical rotation) 0.05grade ± (0.03 + measured value ×0.05 %)°Z (Brix) | 0.02 grade ±0.01°(-15°≤Optical rotation≤ + 15°) ±0.02°(Optical rotation<-15° or Optical rotation>+ 15°) |
| Repeatability | sample transmittance > 1%, ≤0.002°(Optical rotation) sample transmittance > 1%, ≤0.02°Z(Brix) | 0.002°(Optical rotation) |
| Length of Test Tube | 200mm and 100mm | 200mm and 100mm |
| Minimum sample transmittance | 1% | 1% |
| Power | 220V±22V 50Hz±1 Hz | 220V±22V 50Hz±1 Hz |
| Overall Dimensions | 600mm×320mm×200mm | 718mm ×342mm ×220mm |
| Weight | 30kg | 32kg |