

## Polarimeter

### Automatic Polarimeter



BK-P1/2

#### Features:

- \* LCD Display
- \* Photoelectric test and microcomputer control.
- \* Preheating is not needed. (Only for BK-P1 and BK-P2 Model).
- \* Dark-colored sample can be measure. (Only for BK-P1 and BK-P2 Model).
- \* Automatic repetition-measurement for 6 times, and calculation of average value and means square root.
- \* Sample chamber adopts constant temperature designing in order to reduce the temperature heating influence.

#### Technical Parameters:

Model	BK-P1	BK-P2
Light Source	LED lamp	
Measuring range	±45°(optical rotation) / ±120° Z(sugar)	
Wavelength	589nm	
Readable Accuracy	0.001°(optical rotation)	
Measuring Accuracy	±0.01°(-15°≤ optical rotations ≤ +15°) ±0.02°(optical rotation < -15° or optical rotation > +15°)	
Repeatability	0.002°(optical rotation)	
Sample Transmittance	1%	
Temperature Control Range	/	15~30°C
Temperature Accuracy	±0.5°C	
Test Mode	Optical rotation, specific rotation, concentration, sugar degree	
Test Tube	200mm, 100mm	200mm, 100mm, 100mm (Constant Temperature tube)
Interface	USB&RS232	
Power Supply	AC110/220V+10%, 50/60Hz	
External Size(W*D*H)	690*370*280mm	
Package Size(W*D*H)	820*500*510mm	
Gross Weight	43kg	



BK-P3

#### Introduction:

Polarimeter is an instrument used to determine the rotation of a substance, and its working principle is based on the rotation of polarized light. By measuring the rotation angle of the sample to the polarized light, the concentration, content and purity of the substance can be analyzed and determined. Natural light through the polarizing mirror to produce plane polarized light, when the tube is filled with optical substances, polarized light through the material solution, the angle of polarized light will rotate to the left or right a certain angle. In order for the polarized light rotated at a certain angle to pass through the polarizer grating, the polarizer must be rotated at a certain angle so that the brightness can be seen at the eyepiece. This angle of rotation is the rotation of the solution of the substance to be measured.

#### Features:

- \* LCD Display
- \* Photoelectric test and microcomputer control.
- \* Automatic repetition-measurement for 6 times, and calculation of average value and means square root.
- \* Sample chamber adopts constant temperature designing in order to reduce the temperature heating influence.

#### Technical Parameters:

Model	BK-P3
Light Source	LED lamp
Measuring range	±45°(optical rotation) / ±120° Z(sugar)
Wavelength	589nm
Readable Accuracy	0.001°(optical rotation)
Measuring Accuracy	±(0.01+measurement value*0.05%)(optical rotation)
Repeatability	±0.003°(optical rotation)
Test Mode	Optical rotation, specific rotation, concentration, sugar degree
Test Tube	200mm, 100mm
Interface	USB
Power Supply	AC110/220V+10%, 50/60Hz
External Size(W*D*H)	570*350*280mm
Package Size(W*D*H)	730*480*470mm
Gross Weight	36kg