



AUTOMATIC POLARIMETER BPOL-104

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A polarimeter is an instrument used for determining the polarisation direction of the light or the rotation of an optically active substance.

Used in pharmaceutical, petroleum, food, chemicals, flavors, spices, sugar marking, universities, research institutes.

Also known as Polarimeter, Auto Polarimeter, Auto Digital Polarimeter.

BPOL-104 AUTOMATIC POLARIMETER



The Peltier system automatically controls the sample temperature in the Automatic Polarimeter max range from 10 °C to 50 °C.

For calibration Additional Standard polarization tubes with software can be used by user.

Large color touch screen display and innovative software interface give extremely convenient device operation and data acquisition.

8 inch TFT touch screen, with the Android system.

High brightness LED lights with service life exceeding 100000 hours. To void the light source exchanging.

8GB room for data storage.

Timing measuring and graphic display function, displaying the samples optical rotation changing dynamic process.

Classify and synchronous result searching function is convenience for user's result searching.

User ID management function. Users ID are available for adding, deleting and jurisdiction setting.

3 USB port for U-Disk, keyboard mouse connecting. And WiFi for connecting printer.

SPECIFICATIONS

Model	BPOL-104
Measuring Range	$\pm 89.99^\circ \text{Arc}$; $\pm 259^\circ \text{Z}$
Measuring Model	Optical Rotation; Specific Rotation; Concentration; Sugar Degree
Min. Reading	0.001° (optical rotation)
Accuracy	$\pm 0.01^\circ$ ($-45^\circ \leq \text{optical rotation} \leq +45^\circ$); $\pm 0.02^\circ$ (optical rotation $< -45^\circ$ or optical rotation $> +45^\circ$)
Repeatability (standard deviation)	0.002° (optical rotation)
Temperature Control	Peltier
Temperature Control Range	$10^\circ \text{C} \sim 50^\circ \text{C}$
Temperature Control Accuracy	0.3°C
Communication Port	USB×3, RS232, Wi-Fi
Data Storable	8GB
Display	8inch
Sample Cell	Upto 200mm
Graphic	4hours
Power	220V AC ($\pm 10\%$) 50Hz
Calibration (rotation value)	Optional
Optional Parts	Sample tubes, including corrosion-resistant tubes or micro tubes



Biolab Scientific Ltd.

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com