

## Automatic Digital Polarimeter



Polarimeter is an analytical instrument used to measure the optical rotation of optically active substances. By determining the angle of rotation, it enables accurate analysis of concentration, content, and purity of materials.

Polarimeters are widely employed in the sugar, pharmaceutical, petroleum, food, and chemical industries, as well as in universities and scientific research institutions.

### SALIENT FEATURES:

#### ADP-90:

- 7-inch intuitive touch screen
- High resolution of 3 decimal places
- Multiple communication interfaces: USB, RS232
- Windows operating system makes the device very easy to use
- Data storage: 1000 groups
- LED cold light source replaces traditional sodium light resulting in a long stable life
- Digital Polarimeter based on Optical null principle.
- No warm up required

#### ADP-90P:

- 7-inch intuitive touch screen
- High resolution of 3 decimal places
- Multiple communication interfaces: USB, RS232
- Windows operating system makes the device very easy to use
- Data storage: 1000 groups
- LED cold light source replaces traditional sodium light resulting in a long stable life
- Digital Polarimeter based on Optical null principle.
- No warm up required
- Built-in Peltier temperature control
- User Management
- GLMP/GMP/21CFR compliant
- Multi-user with password protection

## **SPECIFICATIONS:**

<b>Model</b>	<b>ADP-90</b>	<b>ADP-90P</b>
Make	Galaxy	Galaxy
Temperature Control	N.A	Built-in Peltier System
Temperature Control Range	N.A	10 to 50°C
Temp. Control Accuracy	N.A	±0.2°C
Constant Temp. Tube	N.A	100 mm
Optical & Specific Rotation		
Measuring range	-89.99° to +89.99°	-89.99° to +89.99°
Unit	Angle °	Angle °
Resolution	0.001°	0.001°
Accuracy	0.01°	0.01°
Sugar		
Range	-257°Z to +257°Z	-259°Z to +259°Z
Unit	°Z	°Z
Resolution	0.01°Z	0.01°Z
Accuracy	0.1°Z	0.1°Z
Concentration		
Range	0 to 99.9 g/ml	0 to 99.9 g/ml
Unit	g/100ml	g/100ml
Resolution	0.1mg/ml	0.1mg/ml
Accuracy	± 0.5g/100ml	± 0.5g/100ml
Memory	1000 groups	1000 groups
Sample transmittance range	≥1%	≥1%
Operation Wavelength	589.3 nm	589.3 nm
Display	7 inch touchscreen	7 inch touchscreen
Interface	USB, RS232	USB, Rs232
No. of Measuring Mode	4 (optical rotation, specific rotation, concentration, sugar content)	
Test Tube	100 mm & 200 mm	100 mm & 200 mm
Power Supply	AC 220V / 50 Hz	AC 220V / 50 Hz
Dimensions & Weight	870 x 520 x 480 mm & 24 kg	870 x 520 x 480 mm & 24 kg
Accessories	Tube 100mm, 200mm, User Manual, Power Cord	
Accessories	Peltier 100mm Tube, Syringe	