

Order Code - 58035



A polarimeter is a scientific instrument used to measure the angle of rotation caused by passing polarized light through an optically active substance. Some chemical substances are optically active, and polarized (uni-directional) light will rotate either to the left (counter-clockwise) or right (clockwise) when passed through these substances. The amount by which the light is rotated is known as the angle of rotation. The angle of rotation is basically known as observed angle.

### Technical Specification

Test Modes	optical rotation, sugar degree
Light source	LED
Wavelength	589.44nm
Measurement	$\pm 45^\circ$ (optical rotation) $\pm 120^\circ$ Z (sugar)
Minimum indicating value	0.001° (optical rotation) 0.01° Z (sugar)
Accuracy	$\pm(0.01 + \text{measurement value} \times 0.05\%)^\circ$ (optical rotation) $\pm(0.03 + \text{measurement value} \times 0.05\%)^\circ$ Z (sugar)
Repeatability	$<0.002^\circ$ (optical rotation)
Display	LCD
Test tube	200mm, 100mm
Sample transmittance	$> 1\%$
Interface	Rs232
Operation voltage	220V $\pm$ 22V,50Hz
Overall Dimensions	730mm x 480mm x 470mm
Weight (Gross)	36kg
Software	Yes

Note: Specifications are subject to change.

### **Tesca Technologies Pvt. Ltd.**

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The Automatic polarimeter provide excellent application modes Without Sacrificing accuracy and precision it is an ideal instrument for various application.

## Features

- Automatic Polarimeter instrument used to measure specific optical rotation of optically active substance
- Measuring optical rotation and sugar degree
- Built in auto controlling system with servomechanism
- Calculation of average values
- Measurement of dark colored sample
- Rs232 Interface

## Measuring Modes

- 1. Optical Rotation
- 2. Sugar Degree



Sample compartment .



RS 232 Port

Power Supply



Monitoring Display

## Standard Accessories

- 1. Software Kit : RS232 Cable, Software CD
- 2. Main Lead
- 3. Fuse
- 4. Instruction manual

## Optional Accessories

- 1. Sample Tubes 100mm, 200mm

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