

Order Code - 58037



The polarimeter is an instrument used for determining the Optical rotation of substances. In this way, the concentration, content, purity, etc of certain substances can be and out. Therefore, the polarimeter has become one of the most useful instruments in laboratories of sugar industry, pharmaceutical industry, oil refining, foodstuff industry, chemical industry, universities and scientific research field.

## Features

- Touch screen colour display
- Temperature display
- Faraday magneto-optical modulator
- Polarizer Polarizing film
- Digital Polarimeter based on Optical null principle
- No warm-up time is required when instrument is switched on
- Measuring multiple scales - specific rotation, optical rotation, Sugar degree and concentration
- Automatic repetition-measurement for 6 times, and calculation of average value.
- Measurement of dark-coloured sample
- Response time 3°/ sec.
- Insulated Sample chamber to keep sample temp. constant
- User can set retesting sample between 1 to 6
- Photodiode Detector
- Data display - date, time, measuring mode, length of tube, temp. test time, measured value (1 - 6 values), average value,
- Purity method - saccharic concentration
- Monitoring chemical processes
- Purity control and determination of concentrations
- Characterizations of new synthetic substances
- Hospitals & Pharmacies
- Purity control and determination of concentrations
- Analysis of optically-active components (qualitative and quantitative)
- Determination of changes in the configuration
- Monitoring chemical processes
- Quality control of original and end product
- Determination of fructose and glucose
- Determination of concentration
- Purity control
- Quality control

Note: Specifications are subject to change.

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

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,  
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,  
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tescaglobal.com

## Technical Specification

Measuring Mode	Optical Rotation, Specific Rotation, Sugar Degree and Concentration (Custom)
Frequently Used Methods	30
Light Source	Light-emitting diode(LED) (up to 10,000 hours) + precision interference filters
Working Wavelength	589.44nm (Sodium D Spectrum)
Measurement Range	$\pm 90^\circ$ (Optical Rotation) $\pm 259^\circ$ Z (Sugar)
Minimum Reading	0.001 $^\circ$
Accuracy	$\pm 0.004^\circ$
Repeatability	$\leq 0.002^\circ$
Min. Transmission of samples able to be measured	0.1%
Response Speed	8 $^\circ$ /S
Measurement Time	6 Time/26S
Sample Temperature Control	Yes
Temperature Control Mode	Peltier (Built-in)
Temperature Control Range	10-50 $^\circ$ C
Temperature Control Accuracy	$\pm 0.2^\circ$ C
Display	8-inch color dot matrix touch LCD
Calibration Method	Multi-point automatic calibration
Data Storage	10000 sets
GMP Regulations	No
Output communication interface	USB / Printer / U disk
Test Tubes	200mm 100mm (regular) 100mm(temp control)
Optional Tubes	50mm (regular) 200mm(temp control)
Weight(Gross)	36kg
Dimensions	860mm x 510mm x 470mm

Note: Specifications are subject to change.

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

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,  
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,  
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tescaglobal.com