



Introduction

These polarimeters find wide application in laboratories of pharmaceutical, sugar, food, oil refining & chemical industries, universities and scientific research departments. Integrated with advanced technology, this type of instrument is used for determining the optical rotation of substances.

■ Pharmaceutical Industry

- Monitoring chemical processes
- Purity control and determination of concentrations.
- Characterizations of new synthetic substances

■ Chemical Industry

- Determination of changes in the configuration
- Monitoring chemical processes

■ Sugar Industry

■ Food Industry

- Purity Control
- Quality Control

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.

Automatic Digital Polarimeter

APM Series

Model	APM-2	APM-3
No. of Measuring Mode (4)	Optical Rotation, Specific Rotation, Sugar, Concentration	
Measuring Mode	Rotation	
Measuring Range	-45° +45°	-89° ~ +89°
Unit	Angle	
Resolution	0.001	
Accuracy	±0.01	
Measuring Mode	Sugar	
Range	-120° +120° Z	-257° +257° Z
Unit	Z	
Resolution	0.01 Z	
Accuracy	±0.02 Z	
Measuring Mode	Concentration	
Range	0-99.9g/ml	
Unit	g / ml	
Resolution	0.1 mg/ml	
Accuracy	±0.5g/100ml	
Temperature Control	-	Peltier
Temperature Control Range	-	15°~30° C
Temperature Resolution	-	0.1° C
Temp. Accuracy	-	±0.5 ° C
Constant Temp. Test Tube	-	100 mm
Memory	-	99 data sets
Display	Touch Screen	
Sample Transmittance	1 %	
Light Source	LED (2.4V, 1W, 5000 hours)	
Operation Wavelength	589.3nm	
Length of Test Tube	100 mm & 200 mm	
Interface	USB & RS 232	
Power Requirements	230 Vac, ± 20%, 50-60Hz	
Dimension (LxWxH)	850 x 470 x 380mm	
Weight Approx.	35 kg	