

Automatic Digital Polarimeters

APM Series Touch Screen



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. Our offered **Digital Polarimeter** has been certified by reputed government institutions like Regional Testing Center.

• 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.

| 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/100 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 | |
| Dimension (LxWxH) | 850 x 470 x 380mm | |
| Weight Approx. | 35 kg | |

WORLDWIDEMARKETING

ACZET PVT. LTD.

Unit E2, Plot No. 15, WICEL Estate, Opp Seepz Gate Nol. 1, Andheri (E), Mumbai 400 093. (INDIA)
 Tel. : +91-22-4243 7700 • Fax : +91-22-4243 7800 • E-mail : sales@aczel.com • Web : www.aczel.com