



PLRM-4

Specifications:

Measurement Range: -180° to $+180^{\circ}$
 Scale Value: 1°
 Vernier: $\pm 0.05^{\circ}$
 Magnifier: 3X
 Light Source: Sodium Lamp
 Wavelength: 589.44nm
 Tube Length: up to 200mm
 Stable Time: 10 minutes
 Power Requirements: 220V/50Hz
 Dimensions: L500x W135x H330mm
 Weight: 5kg

PLRM-4, Full-Circle Manual Polarimeter

PLRM-4 manual polarimeter is ideal for determining concentration levels of samples for applications in the medical, educational, pharmaceutical, and cosmetic industries etc.

Easy Measurement: The polarimeter with 589.44nm monochromatic sodium lamp. After powered on, the polarized light beam is immediately project on filter, polarizer etc. You can view the visual fields of brightness or shade through eyepiece. Put the sample tube in measuring field chamber. Rotate the vernier knob again, you can view equal brightness. Read the scale from magnifier that is measured value.

Specific Optical Rotation Measurement:

Specific optical rotation is constant of substance, you can measure it by 100mm glass tube when temperature of solution at 20°C .

Purity Measurement: The polarimeter is ideal for determining purity of sample. If you want to know its purity, you need only measure its the angle of rotation and calculate it.

Concentration Measurement: For some substance of known specific optical rotation, you can measure its the angle of rotation and calculate concentration according to formula.

International Sugar Scale: According to international sugar scale, put the 26 grams pure sugar in solution, The angle of rotation of solution is 34.626° . By the rules, you can calculate the purity of sugar.



Rotate the vernier knob till the visual field to equal brightness. (Zero point)



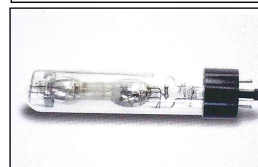
PLRS-5

PLRS-5, Semiautomatic Polarimeter

Introduction: **PLRS-5** semiautomatic polarimeter used to measure angle of rotation, specific optical rotation of optically active substance. You can calculate its purity, concentration and percentage by measured value.

Features: Microprocessor-Based • The angle of rotation is digitally displayed • Simple push-button adjustment of visual fields • Zero indicator light confirms accurate calibration.

Specification: Measuring Range: -180° to $+180^{\circ}$ • Accuracy: $\pm 0.02^{\circ}$ • Light Source: Sodium lamp • Optical Wavelengths: 589.44nm • Stable Time: 5 minutes • Tube Length: up to 200mm • Power Requirements: 220VAC/50Hz • Dimensions: 590(L)x255(W)x400(H)mm • Weight: 7kg.



PLRA-2

PLRA-2, Automatic Polarimeter

Introduction: **PLRA-2** automatic polarimeter is the basic scientific instrument used to measure angle of rotation, specific optical rotation of optically active substance.

Automatic Measurement: **PLRA-2** built-in auto-controlling system. Power on the polarimeter, the system will search for zero point automatically. You need only put the sample tube in measuring field chamber, the polarimeter will display the angle of rotation.

Auto-Judge Substance FDRM Levorotatory DR

Dextrorotatory: The polarimeter can auto-judge compound form levorotatory or dextrorotatory. If there is negative measures value, that means is levorotatory substance, if appearing positive measures value, it means is dextrorotatory substance.

Reproducibility: In experiment, you need test a sample solution three times or more to ensure the accuracy of the measured value. You can press [+] or [-] key and the polarimeter will test again. The polarimeter not only can test the angle of rotation of substance and but can calculate its purity, concentration and percentage.



Specification:
 Measuring Range: -45° to $+45^{\circ}$
 Accuracy: $\pm 0.02^{\circ}$
 Reproducibility: $\pm 0.01^{\circ}$
 Resolution: 0.005°
 Light Source: Sodium lamp
 Optical Wavelengths: 589.44nm
 Stable Time: 5 minutes
 Tube Length: up to 200mm
 Power Requirements: 220VAC/50Hz
 Dimensions: 600(L)x300(W)x200(H)mm
 Weight: 25kg.