

Polarimeters

Optical instruments

HIGHLIGHTS

- The polarimeters are delivered with 100 and 200 mm observation tubes
- Equipped with a built-in 230 V 589.3 nm sodium lamp
- Fast and accurate
- Short warm-up time

TECHNICAL SPECIFICATIONS

The purity and concentration of optically active substances can be determined with a polarimeter. An optically active substance will rotate the polarization plane of linearly polarized light. The amount of rotation is dependent on the molecular composition and proportional to the concentration of chiral molecules. Each optically active substance has its specific rotation factor as defined by Biot's law

- The polarimeter is a sensitive instrument for non-destructive measurement of the optical activity of organic and inorganic substances.
- It is also a simple and cheap method for expensive or non-replicable samples

APPLICATIONS

- Polarimeters are frequently used for process control of chemical, pharmaceutical and food research labs of production facilities.
- Some substances that can be measured are: steroids, diuretics, antibiotics, drugs, vitamin, analgesics, amino acids, essential oils, sugars

TUBES

- The polarimeters are delivered with 100 and 200 mm observation tubes

ROTATION ANGLE

- Polar scale, range $\pm 180^\circ$ with 0.1° readings.
- Supplied with observation tubes of 100 mm and 200 mm.
- Bright light measuring field permits reading with accuracy of 0.1° with aid of Vernier
- Range $0-180^\circ$ to left and right. Accuracy 0.1° . Polarizing device: Glan Thomson prism and Laurent Quartz plate

PACKAGING

- Supplied with a built-in 230 V 589.3 nm sodium lamp with ballast for 230 volt operation with cable and plug

MODELS

	Scales	Accuracy	Observation tubes 100 and 200 mm	230 V sodium lamp (with 589.3 nm filter)
99.400	$\pm 180^\circ$	$\pm 0.1^\circ$ polar scale	•	•

ACCESSORIES AND SPARE PARTS

- 99.410** Measuring tube, 100 mm long
- 99.415** Measuring tube, 200 mm long
- 99.430** Cover glass for measuring tube $\varnothing 15$ mm
- 99.431** Rubber ring (for 99.430)
- 99.197** Spare sodium 589.3 nm lamp



99.400