Manual Disc Polarimeter - Visual Polarimeter with Sodium Lamp - ±180° Range - 0.05° Vernier

Model **MSPOL-DISC4IISWISS** | Brand **Master Science**





The Master Science Manual Disc Polarimeter is a classic visual instrument for measuring the optical activity of sugars, pharmaceuticals and organic compounds. The user turns the analyser by hand until the fields in the eyepiece match, then reads the rotation angle from the disc.

KEY HIGHLIGHTS

- Full-circle range
- Fine readings
- Easy to move
- Shows the principle
- Dependable

AT A GLANCE

±180°
MEASURING RANGE

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

The scale covers ±180° with 1° main divisions and a vernier that reads to 0.05° through a 4× magnifier. A sodium lamp gives the 589 nm line. Light and simple, it is well suited to teaching and basic research where students need to see how optical rotation is measured.

Key Benefits

Full-circle range
the Master Science Manual Disc Polarimeter reads ±180°.

Fine readings
vernier to 0.05°.

Easy to move
5 kg.

Shows the principle
hands-on visual matching.

Dependable
reliable, straightforward operation.

For automatic readings, see the Master Science automatic polarimeter.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSPOL-DISC4IISWISS
SKU	MSPOL-DISC4IISWISS
Brand	Master Science
Model Number	MSPOL-DISC4IISWISS
SKU	MSPOL-DISC4IISWISS
Measuring Scale	Optical rotation
Measuring Range	**±180°**
Main Scale Graduation	1°
Vernier Reading	0.05°
Sample Cell Length	100 mm and 200 mm
Magnifier	4×
Power Supply	220 V ±22 V, 50 Hz ±1 Hz

OPTICAL PERFORMANCE

Wavelength	**589 nm**
Light Source	Sodium lamp

DIMENSIONS & WEIGHT

Dimensions (L×W×H)	435 × 135 × 320 mm
Package Dimensions	580 × 230 × 420 mm
Net / Gross Weight	5 kg / 5.8 kg

COMMON PROBLEMS AND HOW THIS POLARIMETER HELPS

Common Problems and How This Polarimeter Helps	How the Master Science Manual Disc Polarimeter serves teaching and basic work:
Students not seeing how rotation is measured	direct visual alignment.
Limited budgets	simple manual instrument.
Angles beyond ±90°	±180° scale.
Coarse scale readings	0.05° vernier with 4× magnifier.

Applications

The Master Science Manual Disc Polarimeter is used for
Optical activity of sugars Pharmaceuticals and organic compounds Teaching laboratories Fundamental research

Measurement

- Manual measurement with visual aiming
- Vernier scale with magnifier
- Wide ±180° range

Design

- Lightweight
- Straightforward operation

Standard Accessories Included

- 100 mm sample tube
- 200 mm sample tube