POL-300 Series
Automatic Polarimeter

Brochure

INTRODUCTION

The Laxco™ POL-300 Series is a high-performance automatic polarimeter designed to meet the demanding needs of the pharmaceutical, chemical, sugar, and food industries. Ideal for monitoring chemical processes, ensuring purity, conducting quality control, determining concentrations, and characterizing new synthetic substances, the POL-300 offers enhanced precision and usability. It features a stable 589nm LED light source with an extended 100,000-hour lifespan and an intuitive 8" color touchscreen for seamless operation. With support for 100mm and 200mm glass tubes, the instrument provides flexibility in sample handling, while USB and RS232 ports enable efficient data export. Users can store up to 4,000 data sets, create custom measuring methods, manage user accounts, and print readings for documentation. An optional FD mode (CFR 21 compliance) is also available for regulated environments. The POL-300 supports multiple measuring modes including optical rotation, specific rotation, concentration, and international sugar scale, making it a versatile and reliable choice for modern laboratories.

KEY FEATURES

- 8" color touchscreen display
- 589nm LED illumination with 100,000 bulb life
- RS232 and USB connectivity
- Stores 4000 data groups to internal memory
- Supports 100mm and 200mm glass tubes
- Single button measuring key
- Printer connectivity to print out readings for paper record keeping
- Ability to create user accounts
- Ability to create and manage measuring methods
- OPTIONAL: FD (food and drug administration) mode (CFR 21)

MEASURING MODES

- Optical rotation
- Specific Rotation
- Concentration
- International sugar scale

DISPLAY

- End point icon appears when measurement is complete
- Transmittance max alarm
- Temperature reading of last sample
- Current temperature reading
- Information key

SPECIFICATION - POL-301

MEASURING RANGE	±90°
RESOLUTION	.001°
ACCURACY	±0.01°
REPRODUCIBILITY	0.003°
Temperature range	0-100°C
Temperature resolution	0.1°C
Temperature Control model	NA
Temperature Control range	NA
Temperature Control accuracy	NA
Sensitivity	Min0.5%
Prism	Polymer
Light source	LED , 100000 hours
Wavelength	589nm
Measuring mode	Optical rotation Specific rotation Concentration International sugar scale
Sample chamber	up to 200mm
Interface	RS232, USB
Display	8 inch touchscreen color LCD
Database	4000 groups data
N.W./G.W.	28kg / 30kg
Dimension(L x W x H)	72 x 37 x 24cm
With packaging dimension	88 x 59 x 42cm
Includes	POL-301 polarimeter 200mm x 1(glass tube) 100mm x 1(glass tube) 4G USB flash

SPECIFICATION - POL-302

MEASURING RANGE	±90°
RESOLUTION	.001°
ACCURACY	±0.004°
REPRODUCIBILITY	0.003°
Temperature range	0-100°C
Temperature resolution	0.1°C
Temperature Control model	NA
Temperature Control range	NA
Temperature Control accuracy	NA
Sensitivity	Min0.1%
Prism	Glan Thompson
Light source	LED, 100, 000 hours
Wavelength	589nm
Measuring mode	Optical rotation Specific rotation Concentration International sugar scale
Sample chamber	up to 200mm
Interface	RS232, USB
Display	8 inch touchscreen color LCD
Database	4000 groups data
N.W./G.W.	28kg / 30kg
Dimension(L x W x H)	72 x 37 x 24cm
With packaging dimension	88 x 59 x 42cm
Includes	POL-302 polarimeter 200mm x 1(glass tube) 100mm x 1(glass tube) 4G USB flash

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