



KLABS KDAP-730 Digital Automatic Polarimeter



Product Description

The KLABS KDAP-730 Digital Automatic Polarimeter is a precision laboratory instrument designed for accurate optical rotation and sugar concentration measurements. Equipped with a high-resolution LCD display, LED light source (589.44 nm), precision optics, and RS232 connectivity, it provides fast, reliable, and repeatable results for pharmaceutical, chemical, food, research, and quality control laboratories.

Features

- Fast and accurate
- High resolution LCD display
- Excellent optical system
- Direct result
- Optical rotation & sugar degree measurement
- RS232 connectivity
- High repeatability
- User-friendly operation
- Stable analytical performance

Application/Uses

- Pharmaceutical laboratories
- Sugar industry laboratories
- Food & beverage laboratories
- Chemical laboratories
- Research laboratories
- Academic institutions
- Quality control laboratories
- Optical rotation analysis
- Sugar concentration determination



ACCURATE
& STABLE



SOFTWARE
CONTROL SYS.



LCD
DISPLAY



EASY
OPERATION



USB
CONNECTIVITY

Technical Specifications

Parameter	Specification
Product Name	Digital Automatic Polarimeter
Model Number	KDAP-730
Test Modes	Optical rotation, sugar degree
Light Source	LED
Wavelength	589.44 nm
Measurement	$\pm 45^\circ$ (optical rotation), $\pm 120^\circ\text{Z}$ (sugar)
Minimum Indicating Value	0.001° (optical rotation), 0.01°Z (sugar)
Accuracy	$\pm(0.01 + \text{measurement value} \times 0.05)\% \text{Z}$ (optical rotation), $\pm(0.03 + \text{measurement value} \times 0.05)\% \text{Z}$ (sugar)
Repeatability	$<0.002^\circ$ (optical rotation)
Display	LCD
Test Tube	200 mm, 100 mm
Sample Transmittance	$>1\%$
Interface	RS232
Operation Voltage	$220 \pm 22\text{V}$, 50Hz
Overall Dimensions	730 mm $\times$ 480 mm $\times$ 470 mm
Weight (Gross)	36 kgs
Software	Yes

Accessories

- Sample tubes 100 mm, 200 mm
- Software kit: RS232 cable, software
- Main lead
- Fuse
- Instruction manual