

Automatic polarimeter LD-LPMR-A31

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Overview

Automatic polarimeter LD-LPMR-A31 comes with 8 inch TFT touch screen & long-life LED cold light source + high precision interference filter instead. With measurement options like optical rotation, specific curl, concentration and international sugar content it can determine the concentration of substance, content, purity etc. Equipped with built-in Peltier temperature control system ensures accurate readings. The automated calibration tool may be automatically calibrated from -45 degrees to +45 degrees, and the built-in automatic calibration software is optional. Network printing and data statistical retrieval are supported.

Features:

- 8-inch touch-color screen, user-friendly operation interface
- With features such as audit trail, electronic signature, multi-function search, and method library
- With multi-level authority management and password protection, authority can be freely configured
- With single, multiple, and continuous measurement test functions
- Compliance with 21CFR Part 1 audit trail, pharmacopoeia, and electronic signature
- With standard test tubes of 200 mm, 100 mm, and 100 mm temperature control type tubes
- You can export the data in PDF and Excel file formats through the communication interfaces provided
- Cloud service, MD5 code verification, and Hastelloy alloy temperature control tubes of various lengths are provided as optional features

Applications:

Automatic Polarimeter acts as an indispensable tool across various industries including sugar production, pharmaceuticals, petroleum, food, chemicals, and research institutions.

Specifications:

Weight	28 kg
Accuracy	$\pm 0.004^{\circ}$
Power Supply	220V $\pm 22V$, 50Hz $\pm 1Hz$
Repeatability	0.002° (Optical rotation)
Transmittance	0.1%
Measuring Range	Optical rotation $\pm 90^{\circ}$, Sugar $\pm 259^{\circ} Z$
Minimum Reading	0.001°
Instrument Level	0.01 level
Measurement Mode	Optical Rotation, Specific Rotation, concentration, Sugar Content (custom)

Power Consumption	250 W
Working Wavelength	589.3 nm
Data Storage Memory	32 GB
Automatic Calibration	Yes
Temperature Resolution	0.1°
Communication Interface	USB, RS232, VGA, Ethernet
Temperature Control Range	10° to 50°
Temperature Control Accuracy	±0.1°