

APD - P3630

Auto Polarimeter Digipol



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

APD-P3630 Auto Polarimeter is an instrument for measuring the optical rotation of substances. Through the determination of optical rotation, the specific rotation, international sugar content, concentration and purity of substances can be analyzed and determined. It is widely used in medicine, petroleum, food, chemical, flavor, fragrance, sugar and other industries and related universities and research institutes.

▶▶ **Auto Polarimeter Introduction:**

Innovation:

- 1: Built-in Peltier temperature control to improve accuracy and stability;
- 2: There are optical rotation/specific rotation/concentration/sugar degree and custom mode;
- 3: LED cold light source replaces traditional sodium lamp and halogen tungsten lamp;
- 4: Support network printing and data statistical retrieval;
- 5: Multi-level authority management, authority can be configured freely;
- 6: 8-inch touch color screen, humanized operation interface;
- 7: Comply with 21CFR requirements (electronic signature, data traceability, audit trail, data anti-tampering and other functions);
- 8: Fully comply with GLP GMP certification specifications.

▶▶ **Auto Polarimeter Feature:**

- 1: Built-in Peltier temperature control, improve accuracy and stability;
- 2: there are rotation/specific curl/concentration/sugar degree and custom mode;
- 3: LED cold light source instead of the traditional sodium light lamp and halogen tungsten lamp;
- 4: Compliance with 21CFR Part 1 audit trail, pharmacopoeia and electronic signature;
- 5: Support network printing, support data statistical retrieval;
- 6: Multi-level authority management, authority can be freely configured;
- 7: 10 inch touch color screen, user-friendly operation interface;
- 8: The system comes with automatic calibration system.

▶▶ **Fields of use:**

1. Auto Polarimeter is widely used in medicine, food, organic chemical industry and other fields.
2. Agriculture: analysis of ingredients such as agricultural antibiotics, agricultural hormones, microbial pesticides and starch content of agricultural products.
3. Medicine: analysis of antibiotics, vitamins, glucose and other drugs, pharmacological study of herbal medicine.
4. Food: sugar, monosodium glutamate, soy sauce and other production process control and finished product inspection, food sugar content determination.
5. Petroleum: analysis of mineral oil, monitoring of petroleum fermentation process.
6. Fragrance: analysis of essential oils.
7. Health services: analysis of clinical diabetes in hospitals.

▶▶ **Product Qualification:**

Auto Polarimeter has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality.

▶▶ Product Details

Auto Polarimeter has built-in Peltier precise temperature control system, which can meet users' requirements for testing at constant temperature. The built-in automatic calibration program is optional, and the standard automatic calibration tool can be automatically calibrated from -45 degrees to +45 degrees, which fully meets the user's demand for controllable measurement accuracy in daily operation. The multi-level authority management of automatic polarimeter can meet the audit tracking.

▶▶ Technical Parameters

Model	APD-P3630
Measurement mode	Rotation, specific curl, concentration, sugar content and custom formula
light source	LED cold light source + high precision interference filter
Working wavelength	589.3nm
Test function	Single, multiple and continuous measurement
Measuring range	Optical rotation $\pm 90^\circ$ Sugar $\pm 259^\circ$ for Z
Minimum reading	0.001°(0.0001°Optional)
Accuracy	$\pm 0.002^\circ$
Repeatability	(Standard deviation s) 0.002° (Optical rotation)
Temperature control range	10°C-60°C(Peltier)
Temperature resolution	0.01°C
Temperature control accuracy	$\pm 0.03^\circ\text{C}$
Display method	8-inch TFT true color touch screen
Standard test tube	200mm,100mm ordinary type,100mm temperature control type (optional Hastelloy alloy temperature control tube of various lengths)
Transmittance	0.01%
data storage	64G
Automatic calibration	YES(standard with a standard pipe)
Audit trail	YES
Electronic signature	YES
Multi-function search	YES
Print	General-purpose printer, WiFi printing (Standard with a printer)
Method library	YES
cloud service	YES
MD5 code verification	YES
Custom formula	YES
User Management	YES / Four-level authority management
Export in multiple file formats	PDF & Excel
Communication Interface	USB, RS232, VGA, Ethernet
Instrument level	0.01 level
Other options	Each capacity 50mm and 200mm long temperature control tube, mouse, keyboard connection, general purpose printer/wireless network printer
Power supply	220V $\pm 22\text{V}$, 50Hz $\pm 1\text{Hz}$, 250W
Weight	28kg

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

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Counter



Optical Emission
Spectrophotometer



DSC/TGA



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Chemistry Analyzer



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Analyzer



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Total Organic
Carbon 3800



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