Polarimeter

Alpol-P series polarimeters are instruments for measuring the optical rotation of substances. By measuring the optical rotation, it is possible to analyze and determine the concentration, content and purity of substances, etc., which is widely used in the pharmaceutical, petroleum, food, chemical, flavoring, fragrance, sugar industry and related universities and research institutes



Alpol-P630 fully Automatic Digital Polarimeter

Innovation Points to Improve Efficiency

- AI automatically sets parameters
- Built-in Peltier temperature control to improve accuracy and stability
- LED cold light source instead of traditional sodium light and halogen tungsten lamp
- Fully comply with GLP GMP certification specifications
- Multi-level permission management, permission can be freely configured
- 10.1 inch touch color screen, user-friendly operation interface
- In line with 21CFR requirements (electronic signature, data traceability, audit tracking, data tamper-proofing and other functions)

The Key Technical Indexes

Measurement mode	Optical rotation, specific rotation, concentration, sugar and custom formula
Light source	LED cold light source + high precision interference filter, the light source is closed when not tested
Working wavelength	589.3nm can be customized to increase 365nm, 405nm, 436nm, 578nm, 880nm and other wavelengths
Test function	single, multiple and continuous measurement mode
Measurement range	Optical rotation ±90°, specific rotation ±259°Z, sugar degree ±259°Z
Minimum reading	0.0001°
Accuracy	±0.002°
Repeatability	(Standard deviation s) 0.002° (optical rotation)
Temperature control range	5°C-65°C (Peltier temperature control)
Temperature resolution	0.01°C
Temperature control accuracy	±0.1°C
Display mode	10.1 inch TFT true color touch screen
Automatic calibration	Yes (one standard tube is standard)
Standard test tubes	200mm, 100mm ordinary type, 100mm temperature control type (optional Harker alloy temperature control tube of various lengths)
Transparency	0.01%
Data storage	32G
Automatic calibration	Yes
Audit trail	Yes
Electronic signature	Yes
Method library	Yes
Multifunctional retrieval	Yes
Printing	Universal printer WIFI printing (one printer is standard)
Real-time monitoring	With optical rotation timing real-time detection, and with optical rotation real-time spectrum;
Scanning interface	The scanning gun can scan the QR code directly
Operating system	Android operating system, touch screen control operation interface, simple and fast software operation, the operating system has audit tracking, user permission management, electronic signature, user disable and unblock functions, and the system meets the requirements of FDA21CFR-Part11, GMP, GLP and electronic signature
User management	There are / four levels of permission management
User disables unlock function	Yes
Export in multiple file formats	PDF and Excel
Communication interface	USB connection, RS232 connection, VGA, Ethernet
Instrument grade	0.01 grade
Other optional accessories	Temperature control tubes of 50mm and 200mm in length, mouse, keyboard connection, universal printer/wireless network printer
Power supply	220V±22V,50Hz±1Hz, 250W
Net weight of instrument	28kg