

## Automatic Polarimeter P810/P850/P810 Pro/ P850 Pro

P Series Polarimeter with automatic photoelectric inspection technology, boasts accurate and reliable measurement, convenient operation. By detecting the optical rotation, the density, content and purity of substances can be analyzed and determined. It's widely used in pharmaceutical, petroleum, food, chemicals, flavors, spices, sugar marking and other industries, and universities and research institutes. New upgraded models: P810 Pro/ P850 Pro adopt brilliant Android system and communication ports, let new models meet FDA 21 CFR Part 11.



### Characteristics

- Meet FDA 21 CFR Part 11(P810Pro/P850 Pro).
- Automatic calibration function, let daily calibration easier by users
- High brightness LED lights with service life exceeding 100000 hours. To void the light source exchanging.
- $\pm 89.99^\circ\text{Arc}$  ensuring the measuring range widely
- The Peltier system automatically controls the sample temperature in the max range from  $10^\circ\text{C}$  to  $50^\circ\text{C}$ (P850/P850 Pro)
- Classify and synchronous result searching function is convenience for user's result searching.
- 3 USB port for U-Disk, keyboard mouse connecting. And WiFi for connecting printer. Let operating much easier.
- Adopt data backup software for connecting to PC, for importing or exporting data(except P810).
- Adopt formula editor for setting multistage or piecewise function calculation(except P810).
- Chinese, English and Russian Switchable(except P810)

### Features

#### Peltier Temperature Control

The Peltier system automatically controls the sample temperature in the max range from  $10^\circ\text{C}$  to  $50^\circ\text{C}$ .

#### User Calibration System

Additional Standard polarization tubes with software for calibration by the user.

#### 8inch touch screen with Android based software

Based on Android operating software for easier using, and also can install laboratory regulatory requirement software or functions; 8GB for storing results, methods or traceability records.

#### Meet FDA 21CFR part 11

P810Pro/P850Pro meet the regulatory requirements about FDA 21 CFR Part 11, including traceability, E-signature, User ID management functions, etc.

#### Password Protection

The password aging function is enabled, enhanced the operators' permission aging management.

### Technical data

	P810	P850	P810 Pro	P850 Pro
Measuring range	$\pm 89.99^\circ\text{Arc}$ ; $\pm 259^\circ\text{Z}$			
Measuring Model	Optical Rotation; Specific Rotation; Concentration; Sugar Degree			
Min.reading	0.001 $^\circ$ (optical rotation)			
Accuracy	$\pm 0.01^\circ$ ( $-45^\circ \leq \text{optical rotation} \leq +45^\circ$ ); $\pm 0.02^\circ$ (optical rotation $< -45^\circ$ or optical rotation $> +45^\circ$ )			
Repeatability (standard deviation)	0.002 $^\circ$ (optical rotation)			
Light Source	LED			
Wavelength	589.3nm			
Temperature Control	No	Peltier	No	Peltier
Temperature Control Range		$10^\circ\text{C} \sim 50^\circ\text{C}$		$10^\circ\text{C} \sim 50^\circ\text{C}$
Temperature Control Accuracy		0.2 $^\circ\text{C}$		0.2 $^\circ\text{C}$
Temperature resolution		0.1 $^\circ\text{C}$		0.1 $^\circ\text{C}$
Communication Port	USB; RS232	USB $\times$ 3,RS232, Wi-Fi		
Data Storable	1000	8GB		
21CFR Part 11	No	Yes		
Tamper-proof data output	No	Yes		
Display	5.6-inch	8-inch		
Sample Cell	Up to 200mm			
Graphic	No	4 hours		
Power	220V AC ( $\pm 10\%$ ) 50Hz			
Calibration (rotation value)	Optional			
Optional Parts	Sample tubes,including corrosion-resistant tubes or micro tubes			