

Infitek

POLARIMETERS



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VERSION.2025

Automatic Polarimeter

POL-2P POL-1P

Description

Need not preheat when turning on.

Automatically retest 6 times and calculate the average and root mean square, can measure dark samples.

Available to measure dark-colored sample.

Color touch screen.



Specifications

Model	POL-2P		POL-1P
Measuring mode	Optical Rotation,Specific Rotation,Concentration,International Sugar Scale		
Light source	LED+interference filter		
Wavelength	589nm		
Measuring range	$\pm 45^{\circ}(\text{OR}); \pm 120^{\circ}\text{Z}(\text{ISS})$		
Accuracy	$\pm 0.01^{\circ}(-15^{\circ} \leq \text{OR} \leq +15^{\circ})$		
	$\pm 0.02^{\circ}(\text{OR} < -15^{\circ} \text{ or } \text{OR} > +15^{\circ})$		
Resolution	0.001°(OR);0.01°Z(ISS)		
Repeatability	0.002°(OR)		
Min.transmission	1%		
Temp.control range	15-30 ℃		—
Temp.accuracy	±0.5 ℃		—
Display	7 inch color touch LCD		
Interface	RS232,USB		
Test Tube	100mm 200mm (regular)		100mm 200mm(regular)
	100mm(temp control)		
Power supply	220V±22V,50Hz±1 Hz,200w		
Package Dimension (W*D*H) (mm)	840*530*520mm		
N.W./G.W.(kg)	28kg/43kg		

Automatic Polarimeter

POL-3

Description

Adopting the principle of photoelectric automatic balance measurement.

High sensitivity, stable and reliable readings, and no human error.

Automatically retest 6 times and calculate the average and root mean square, can measure dark samples.

Color touch screen.



Specification

Model	POL-3
Measuring modes	Optical Rotation,Specific Rotation,Concentration,International Sugar Scale
Light source	LED+interference filter
Wavelength	589nm
Measuring range	$\pm 45^{\circ}(\text{OR}), 120^{\circ}\text{Z}(\text{ISS})$
Resolution	0.001°(OR),0.001°Z(ISS)
Accuracy	$\pm (0.01 + \text{measuring value} \times 0.05\%)^{\circ}(\text{OR})$
Repeatability	$\leq 0.003^{\circ}(\text{OR})$
Min.transmission	10%
Display	Color Touch LCD
Test tubes	100mm 200mm(regular)
Interface	USB,RS232
Power supply	220V±22V,50Hz±1Hz,150w
Package Dimension (W*D*H)	750*510**510mm
N.W./G.W.(kg)	20kg/33kg

Semi-automatic Polarimeter

POL-2S POL-2B

Description

- Photoelectric test and microcomputer control.
- Storage of three times results.
- Calculation of average values.
- Measurement of dark-colored sample.



Specifications

Model	POL-2S	POL-2B
Measuring mode	Optical Rotation,International Sugar Scale	
Light Source	LED+interference filter	
Wavelength	589nm	
Measuring range	±45°(OR) ±120°Z(ISS)	±45°(OR)
Resolution	0.001°(OR) 0.01°Z(ISS)	0.002°(OR)
Accuracy	±(0.01+measuring value x0.05%)°(OR) ±(0.03+measuring valuex0.05%)°Z(ISS)	±(0.01+measuring value x 0.05%)°(OR)
Repeatability	≤0.002°(OR)	≤0.01°(OR)
Mintransmission	1%	10%
Display	5 inch LCD	
Test Tube	100mm 200mm(regular)	
Interface	RS232	
Power supply	220V±22V,50Hz±1 Hz,150w	
Package Dimension (W*D*H) (mm)	750*550*550mm	
N.W./G.W.(kg)	21kg/34kg	

Polarimeter Accessories

POL-DISC4II

Characteristics

- Visual aim
- Manual measure
- Easy to operate



Specification

Model	POL-DISC4II
Measurement range	±180°
Light source	Sodium Lamp
Division Value	1°
Dial Venire Value in Reading	0.05°
Magnifying Factor of the Magnifying Glass	4X
Wavelength	589nm
Test Tube	100mm/200mm
G.W.(kg)	5.8 kg
Instrument Dimensions(W*D*H)(mm)	435*135*320
Package Dimension (W*D*H)(mm)	580*230*420

Full Automatic Polarimeter, High Speed

POL-532 POL-531



Features



High response speed, less noise, and minimum transmittance makes measurement more accurate and efficient.



LED light source that's lasts over 100000 hours.



The number of measurements can be set, and the average value can be calculated.



Equipped with multiple communication interfaces, data can be stored in real-time.



Large screen LCD display.

Packaging Accessories



Specifications

Model	POL-532	POL-531
Measuring mode	Optical Rotation, Specific Rotation, Concentration, International Sugar Scale	
Pre-stored measurement methods	30	
Light source	LED+precision interference filters	
Wavelength	589nm (Sodium D Spectrum)	
Measuring range	±90°(OR)±259Z(ISS)	
Resolution	0.001°	0.001°
Accuracy	±0.004°	±0.006°
Repeatability	≤0.002°	≤0.002°
Min.transmission	0.1%	0.1%
Response speed	8/S	
Measuring time	6 times/26s	
Temp.control mode	Peltier(Built-in)	No
Temp.control range	10-50℃	No
Temp.control accuracy	±0.2℃	No
Display	8 inch color touch LCD	
Calibration method	Multi-point automatic calibration	
Data storage	10000 sets	
Interface	USB,RS232,U disk	
Test tubes	200mm 100mm(regular) 100mm(temp control)	200mm 100mm(regular)
Optional tubes	50mm(regular) 200mm(temp control)	50mm(regular)
Power supply	220V±22V,50Hz±1Hz,200w	
Package Dimension (W*D*H) (mm)	880*530*490mm	
N.W./G.W.(kg)	21kg/36kg	

Full Automatic Polarimeter, High Speed

POL-568 POL-537 POL-533



Features



High response speed,less noise,and minimum transmittance makes measurement more accurate and efficient.



Unique and state-of-art control technology,equipped with high quality prisms.



LED light source that lasts over 100000 hours.



Comply with pharma standards and audit trail function is optional.



Access control (4 grades)and 500 users accounts.



Fast and stable temperature control minimizes measuring time.



Large database,and user hierarchical management.Up to 1000 pre-stored measurement methods.

Specifications

Model	POL-568		POL-537		POL-533
Measuring mode	Optical Rotation,Specific Rotation,Concentration,International Sugar Scale and User defined				
Light source	LED+precision interference filters	Tungsten halogen lamp (20W)	LED+precision interference filters	LED+precision interference filters	
Wavelength	589nm	Multiple wavelength	Dual wavelength	589nm	
		Standard:546,589nm Optional:365,405,436, 578,633nm	Standard:589nm Optional(one):365,405, 436,546,578,633,880nm		
Measuring range	±90°(OR)±259Z(ISS)				
Resolution	0.0001°	0.001°			0.001°
Accuracy	±0.003°	±0.004°			±0.004°
Repeatability	≤0.002°				
Min.transmission	0.01%	0.1%			0.05%
Response speed	8/s				
Measuring time	6 times/26s				
Temp.Control range	Peltier temperature control:10-50 ℃				
Temp.accuracy	±0.2 ℃				
Operating system	Android				
Display	10.1 inch color touch LCD				
Calibration method	Multi-point automatic calibration				
Data storage	128G				
GMP Regulations	Qualified				
Audit trail	Optional				
Interface	RS232,USB,U disk,Keyboard,Mouse,WIFI,Ethernet				
Test tubes	Standard:200mm(regular),100mm(regular),100mm(temp control)				
Power supply	Optional:50mm(regular),200mm(temp control)				
Package Dimension	220V±22V,50Hz±1Hz,200w				
(W*D*H) (mm)	880*530*490mm				
N.W./G.W.(kg)	21kg/36kg				

Polarimeter Accessories

Polarimeter Accessories

Name	Picture	Model	Inner Diameter	Tube Length	Sample Capacity	Applicable Models	Remarks
Bubbled Glass Test Tube		SGW-50p	φ9mm	50mm	6.5mL	POL-568 POL-537 POL-533 POL-532 POL-531 POL-2P POL-1P POL-2S POL-2B POL-3	
		SGW-100p	φ9mm	100mm	13mL	POL-568 POL-537 POL-533 POL-532 POL-531 POL-2P POL-1P POL-2S POL-2B POL-3 POL-DISC4II	The following models come standard with one(1) SGW-100p and one(1) SGW-200p: POL-568, POL-537, POL-533, POL-532, POL-531, POL-2P, POL-1P, POL-2S, POL-2B, POL-3, POL-DISC4II
		SGW-200p	φ9mm	200mm	21mL		
Funnel-Neck Glass Test Tube		SGW-100L	φ9mm	100mm	7.5mL	POL-568 POL-537 POL-533 POL-532 POL-531 POL-2P POL-1P POL-2S POL-2B POL-3	
		SGW-200L	φ9mm	200mm	16mL		
Micro Glass Test Tube		SGW-50w	φ5mm	50mm	0.8mL		
Jacketed Glass Test Tube		SGW-200g	φ9mm	200mm	17mL		
Thermostatic Tube (Stainless Steel)		SGW-100k	φ6mm	100mm	2.5mL	POL-568 POL-537 POL-533 POL-532 POL-2P	The following models come standard with one(1) SGW-100k: POL-568, POL-537, POL-533, POL-532, POL-2P

Polarimeter Accessories

Polarimeter Accessories

Name	Picture	Model	Inner Diameter	Tube Length	Sample Capacity	Applicable Models	Remarks
Thermostatic Tube (Stainless Steel)		SGW-200k	φ6mm	200mm	5mL	POL-568 POL-537 POL-533 POL-532	
Anti-corrosion Thermostatic Tube (Hastelloy alloy)		SGW-100KF2	φ6mm	100mm	2.5mL	POL-568 POL-537 POL-533 POL-532 POL-2P	
		SGW-200KF2	φ6mm	200mm	5mL	POL-568 POL-537 POL-533 POL-532	

Polarimeter Accessories

Name	Picture	Model	Inner Diameter	Applicable Models
Standard Quartz Tube		SGW-101B	+5° -5° +10° -10° +17° -17° +20° -20° +30° -30° +34° -34°	POL-568 POL-537 POL-533 POL-532 POL-531 POL-2P POL-1P POL-2S POL-2B POL-3
			+1° -1°	
		SGW-102B	+71.5° -71.5° +84° -84°	POL-568 POL-537 POL-533 POL-532 POL-531