



SGW_®-2/SGW_®-1 Automatic Polarimeter

Characteristics

- Need not prewarm when turning on
- Measuring specific rotation, optical rotation, sugar degree and concentration
- Automatic repetition—measurement for 6 times, and calculation of average value and means square root
- Peltier principle to control the temperature
- Measurement of dark-colored sample
- USB & RS232

Specifications

Parameters/Model	SGW _® -2	SGW _® -1
Measurement modes	Optical rotation, specific rotation, sugar degree, concentration	Optical rotation, specific rotation, sugar degree, concentration
Light source	LED + interference filter	LED + interference filter
Measurement range	± 45° (optical rotation); ± 120° Z(sugar)	± 45° (optical rotation); ± 120° Z(sugar)
Accuracy	± 0.01° (-15° ≤ optical rotation ≤ +15°) ± 0.02° (optical rotation < -15° or optical rotation > +15°)	± 0.01° (-15° ≤ optical rotation ≤ +15°) ± 0.02° (optical rotation < -15° or optical rotation > +15°)
Minimum indicating value	0.001° (optical rotation)	0.001° (optical rotation)
Sample transmittance	1%	1%
Repeatability	0.002° (optical rotation)	0.002° (optical rotation)
Display	7 Inch Colorful Touch LCD	7 Inch Colorful Touch LCD
Operation Wavelength	589.44nm	589.44nm
Temperature control range	15-30°C	-----
Temperature Accuracy	± 0.5°C	-----
Test Tube	100mm/200mm (regular) 100mm(temp control)	100mm/200mm (regular)
Interface	RS232/USB	RS232/USB
Weight (Gross)	43kg	43kg
Overall Dimensions	820mm x 500mm x 510mm	820mm x 500mm x 510mm