

SGW-3/SGW-2/SGW-1 Automatic Polarimeter

SGW Series Automatic Polarimeter use LED source light to avoid change the lamp frequently. The measure range of SGW-3 can reach $\pm 89^\circ$ (Optical rotation), SGW-3 & SGW-2 has Peltier principle to control the temperature. Instrument use big color touch LCD which can supply friendly interface.

Features:

1. Don't need preware while turning on
2. Measuring specific rotation, optical rotation, sugar degree and concentration.
3. Automatic repetition-measurement for 6 times, and calculation of average value and means square root.
4. Peltier principle to control the temperature (Only SGW-3 & SGW-2).
sample chamber adopts constant temperature designing in order to decrease the temperature heating effect during measurement. (Only SGW-1).
5. Measurement of dark-colored samples.
6. USB connector (SGW-3) or USB & RS232 (SGW-2 & SGW-1)



SGW-1/SGW-2/SGW-3 Automatic Polarimeter

Spec:

	SGW-3	SGW-2	SGW-1
Measure MODE	specific rotation, optical rotation, sugar degree and concentration.		
Light Source	LED+interference filter		
Operation Wavelength	589.3nm		
Measure Range	$\pm 89^\circ(\pm 257^\circ Z)$	$\pm 45^\circ(\pm 120^\circ Z)$	$\pm 45^\circ(\pm 120^\circ Z)$
Minimum Indicating Value	0.001°(0.01°Z)		
Accuracy	a) $\pm 0.01^\circ(-15^\circ < \text{Optical Rotation} < +15^\circ)$		
	b) $\pm 0.02^\circ(\text{Optical Rotation} > +15^\circ \text{ or } < -15^\circ)$		
Repeatability	0.002° (Optical Rotation)		
Temperature Control Range	15~30 °C	18~30 °C	NO
Accuracy	$\pm 0.5^\circ \text{C}$	$\pm 0.5^\circ \text{C}$	NO
Display	Touch Screen (9cm*12cm, 320*240 Resolution)		
Test Tube	200mm, 100mm		
The lowest penetration rate for the measurable samples	1%		
Connector	USB	USB, RS232	USB, RS232
Data store and Readout by flash disk	160 groups	NO	NO
Optional Accessories	Micro Test Tube (50mm) (Optional)		