



Product Name	GAOTek Auto Polarimeter Refractometer
Product SKU	GAOTek-DAP-106
Product URL	https://gaotek.com/product/gaotek-auto-polarimeter-refractometer/

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Auto Polarimeter Refractometer



1. Safety precautions:

1.1 Warning!

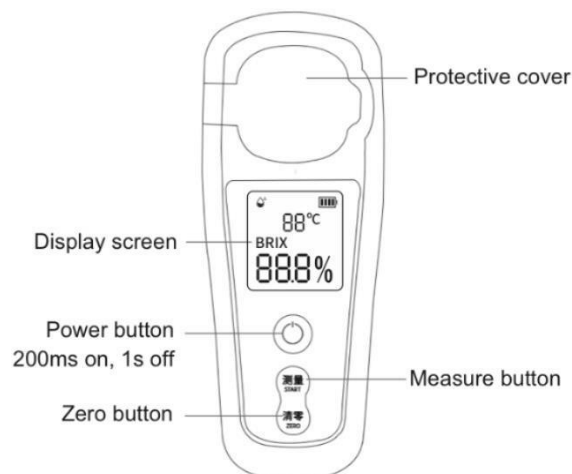
- This instrument is a precision optical instrument, and collision and falling are prohibited.
- It is forbidden to scratch the optical prism in the measuring groove by hard objects.
- Please fully charge it and store it in a dry place when not in use.
- The USB charging voltage should not exceed the DC5V limit.
- Water in the instrument is prohibited.

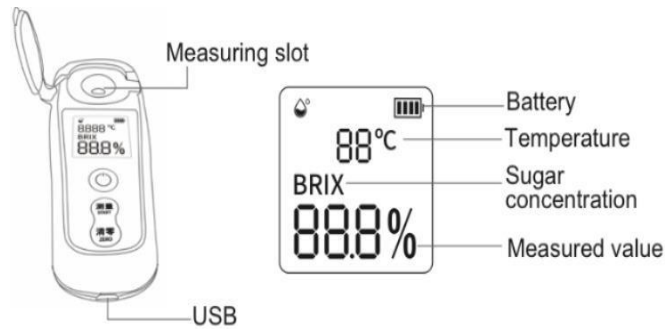
1.2 Precautions:

- Before use, test whether the pure water is 0.0% (It's OK to meet the accuracy requirement of $\pm 0.2\%$), if not, please perform zero calibration first;
- The tested solution should cover at least half of the water tank;
- The water tank needs to be cleaned before measurement and calibration;

1.3 Error message:

- ERR1: Recalibration required;
- ERR2: Out of range;
- ERR3: Check whether the liquid volume meets the conditions;
- ERR4: The solution does not meet the calibration conditions, please clean the water tank and drop in water again; Others: internal failure, please contact for maintenance;





2. Instructions:

2.1 Clean

- If the water tank is oily or difficult to clean, please clean it with ethanol or soapy water;
- Drop into clean water and wash with paper towel for more than 3 times (throw away the paper towel after each wipe)

2.2 Clear

- Clean the water tank before use and drop in pure water;
- Press the ZERO button to prepare for calibration, and wait for the water droplets on the upper left of the LCD to start flashing;
- Press the ZERO button again to confirm the calibration, the water drop above the LCD will light up to indicate that the calibration is in progress, and the concentration will display 0.0% after the calibration is completed;
- During calibration, if pressing other buttons, the instrument will exit calibration mode.

2.3 Measurement

Clean the water tank, drop in the solution, press the measurement key to start the measurement, and the solution concentration will be displayed after the measurement is completed.

3. Product parameters

Model	BM-03S	BM-03
Accuracy	0.2% Brix	0.5% Brix
Measuring range	0-35% Brix 0-55% Brix	0-35% Brix 0-55% Brix
Resolution	0.1% Brix	
Temperature Measurement Range	10-40°C (50°F to 104°F)	



	Automatic Temperature Compensation	
Measurement Response Time	≤ 5 seconds	
Minimum Sample Volume	≥0.3ml	
Power Supply	Built-in lithium battery(600mAh)	
Dimension	5.5in x 2.2in x 1.38in 140*55*35mm	
Weight	2.96oz (84g)	
Standard configuration cleaning cloth, 1X	1X refractometer, 2X pipette, 1X cable, 1X cleaning cloth, 1X user manual, 1X certificate.	