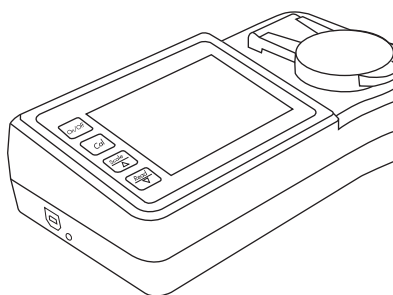


台式数字折射计



操作说明书

- 1. 介绍
- 2. 显示与按键
- 3. 使用准备
- 4. 开机和测量
- 5. 校准
- 6. 切换刻线和温度单位
- 7. 关机
- 8. 维护和保护
- 附录

⚠ 在操作您的仪器之前，请正确阅读本手册。

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1. 介绍

面板描述

包装配件: 包装盒x1 说明书x1 18650锂电池x1 滴管x1 螺丝刀x1 蒸馏水x1 USB线x1 充电器x1

2. 显示与按键

介绍

注: 电池显示 请充电

3. 使用准备

3.1 安装电池

用十字螺丝刀打开电池仓盖

3.2 接入USB

接入USB进行充电/连接电脑

接入USB线

4. 开机和测量

4.1 开机

4.2 测量

开机后，在滴液口滴入样品0.4ml以上，盖遮光盖测量

5. 校准

仪表仅支持纯净水校准。校准方法如下
在滴液口滴0.4ml纯净水盖遮光盖校准

按 'Read' 1次
仪表会测量1次

超出测量范围显示

如果按 'Read' 2秒，仪表将进行固定次数的自动测量，待测量完毕，回到正常状态，刻线显示区显示自动测量的平均值。

多功能区显示剩余自动测量次数 每自动测量1次，此数字减1

6. 校准

按 'CAL' 键2秒
进入校准状态

再按 'CAL' 键1次，开始校准，校准完成后，图所示。如不按任何按键，10秒后退出校准状态并返回测量状态。

无法完成校准，功能区显示错误代码

显示错误代码A03，表示传感器测量错误
其他错误代码参看附录。

6. 切换刻线和温度单位

该产品可支持10条刻线:

当前刻线号

按 'Scale' 键1次
可以切换显示不同的刻线

按 'Scale' 键2秒后
温度单位会进行切换

7. 关机

1. 开机后，如果无任何按键操作，3分钟后仪表自动关机。
2. 按 'On/Off' 键2秒钟，仪表关机。

8. 维护和保护

1. 仪表每次测量完一种样品后，请清洗并擦干滴液口。
2. 不要残留腐蚀性物质在滴液口上。
3. 在对腐蚀性液体进行完测量后，请尽快清洗滴液口以避免对棱镜和金属表面造成不可修复的损伤。
4. 擦洗时请使用柔软的布或纸进行擦拭，避免划伤滴液口玻璃。
5. 滴管和无尘布不使用时，用清水洗干净，晾干后再放入包装盒内。
6. 如果长时间不使用仪表，请卸下电池，并在干燥阴凉环境下保存。

附录

性能

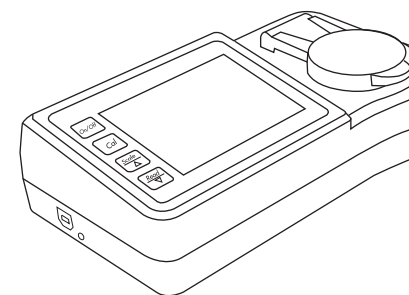
	范围	精度	分辨率
Brix	0.0%~94.0%	±0.1%	0.1%
折射率	1.3330~1.5290	±0.0002	0.0001
温度	0.0~40.0°C	±0.3°C	0.1°C
	32.0~104.0°F	±0.6°F	0.1°F
外形尺寸	180*100*55mm		
净重	365g (不包含电池)		

错误代码说明

错误代码	说明
A01	校准温度超出范围 (1.0°C~40.0°C)
A02	校准时，滴液口无溶液或溶液不对不可进行校准
A03	仪表有硬件故障

刻线说明

Digital Refractometer



Operational Manual

Catalogue

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⚠ Before operating your instrument, please read this manual properly.

1.Introduction

Panel Descriptions

The Packing Accessories:
 Packaging x1 The instructions x1 18650 Lithium Battery x1 Dropper x1 Screwdriver x1 Pure Water x1 USB Line x1 Charger x1

2.Display and Buttons

Display Areas and Buttons

⚠ If is displayed, please charge it.

3.Preparations before Operating

3.1 Install the Battery

Use the screwdriver to open the battery hatch.

3.2 USB Connection

Connect to USB for charging/connecting to the computer.

4.Booting and Measurement

4.1 Booting

The multi-function display area would show the current scale number.

Press "On/Off" button to turn on

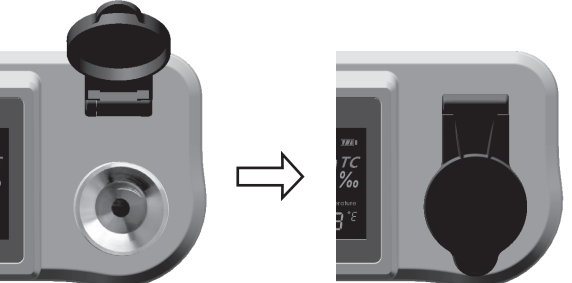
If there is no sample, it will display "dash"

⚠ Note:

- When used outdoors, please avoid strong light so as not to affect the measurement accuracy.
- Before dripping into the sample liquid, please clean the sample plate and Prism with soft clean cloth or soft paper.
- Please keep the instrument in a stable status to measure.
- Please ensure instrument, environment and sample are in the same temperature level before measuring.

4.2 Measurement

After turn on, clear the distilled water and dry the sample plate, drip 0.3~0.4ml sample then close the cover to measure.



Press CAL once

Press the "Read" one time the meter will measure one time.

Showing Beyond Measuring Range

If press the "Read" button for 2 seconds, the instrument would make the automatic measurements upon programmed times (default 15times), the final value is the average of 15 times' measurements. After measurements, it will return to the normal state and the scales display area would display the average of the automated measurements

The multifunctional area displays the number of remaining automatic measurements. For each automatic measurement, this number is reduced by 1.

5.The Calibration

The meter only supports pure water calibration. The calibration method is as following: drop 0.4ml pure water then close the cover to measure.

LED Flashing Display

Press "CAL" button for 2-3 seconds till see the 'CAL' flashing, to enter the calibration status.

Press "CAL" button once again during the 'CAL' flashing to start to calibrate. When the calibration is completed showing as following. If no any operations for 10seconds the instrument would return back to booting status.

If fail to complete the calibration, multi-function display area would show an error code.

Display error code A03, indicating error of sensor measurement. See the appendix for other error codes.

6.Scales converting and temperature systems converting

6.1Scales Converting

The instrument could support 10 scales maximally

Current Scale Number

Press 'Scale' once to convert the scales and the values.

6.2Temperature System Converting

Switching

Press button for 2 seconds, temperature unit would be converted.

If exceed the temperature limitations, the signs "HHH" or "LLL" would show.

7.Turn Off

- After turn on if without any operations for 3 minutes, the instrument would be automatically turned off.
- Press "on/ off" button for 2-3 seconds, the instrument would be turned off.

8.Maintenance and Preservation

- Please clean and wash the sample plate with distilled water and dry it with soft cleaning cloth or paper towel after finishing the measuring one kind sample.
- Never left the remains and residuals of samples in the sample plate for long time.
- After finishing measurements of the corrosive liquid, please clean the sample plate as quick as possible to avoid the irreparable damage of the prism and metal surface of the plate.
- Please use soft cleaning cloth or paper towel to clean the sample plate to avoid scribing the prism's glass.
- When the dropper and dust-free cloth are not used, please clean it with clean water and put it in the packing box after drying.
- If no using the instrument for a long time, please remove the battery, and preserved in a cool and dry environment.

Appendix

Performance:

	Range	Accuracy	Resolution
Brix	0.0%~94.0%	±0.1%	0.1%
R.I.	1.3330~1.5290	±0.0002	0.0001
Temperature	0.0~40.0°C	±0.3°C	0.1°C
	32.0~104.0°F	±0.6°F	0.1°F
Dimension	180*100*55mm		
Net weight	365g (excluding battery)		

The Error Codes Table:

code	Instructions
A01	Beyond the scope of calibration temperature. (1.0°C~40.0°C)
A02	During calibration, no solution or non-pure water
A03	This instrument has a hardware failure.

Description of Scales Numbering:

