# Khalder SRS03 Digital Refractometer User Manual



Contents



khalder

**Khalder SRS03 Digital Refractometer**


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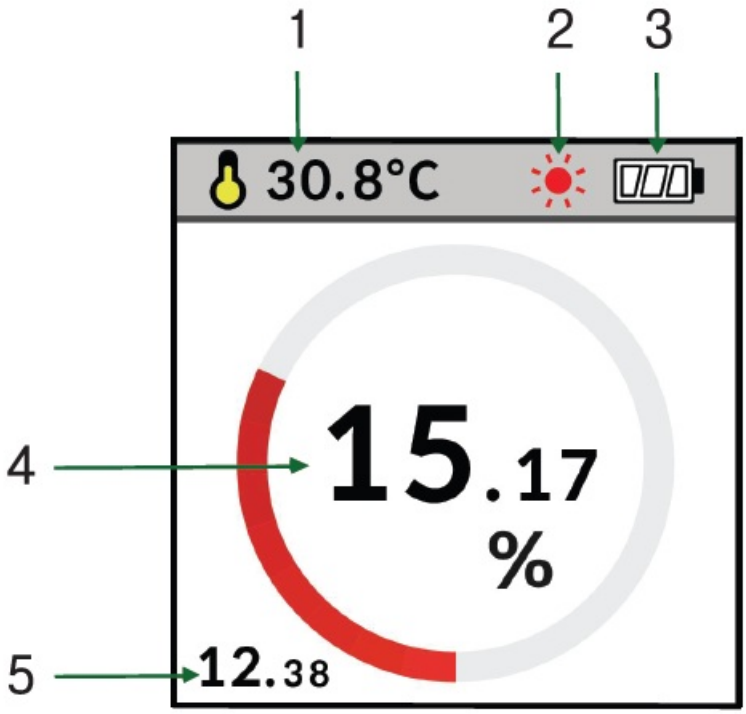
## Parts


1. Cover
2. Optical glass sensor
3. Case
4. Color LCD
5. Power button
6. Calibrate button
7. Measure button
8. Location NFC tag

**LCD**

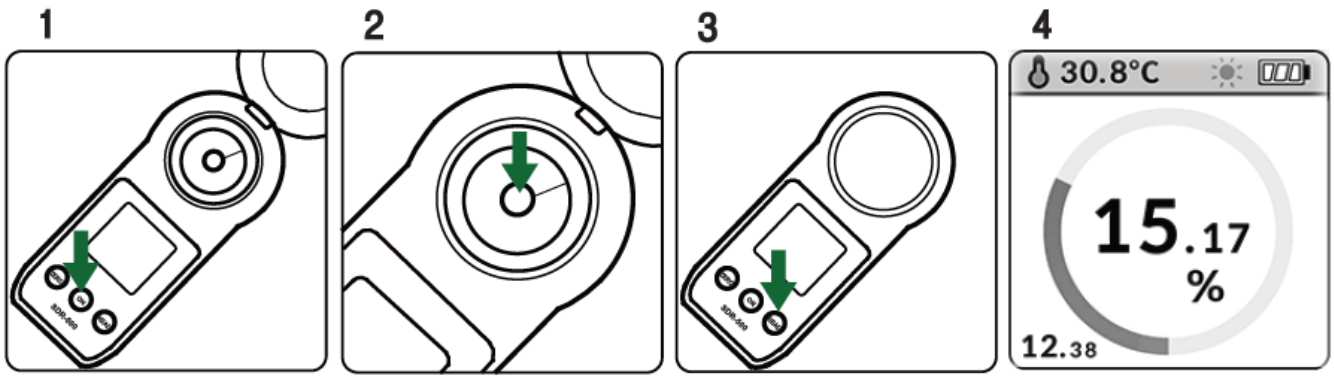



1. Temperature
2. Ambient light (If the ambient light is on, make sure to close the cover before measuring.)
3. Remaining battery
4. Measured Brix % value
5. Previous measured value

### Specification

- Model name SRS03 Size 56(W) x 122(0) x 30(H)mm
- Range Brix: 0.0% ~ 53%
- Temp: O.O”C ~60″C Power 1.5V x 2(AA Alkaline .)
- Resolution Brix : 0.1 % Temp : 1.0 “C
- Accuracy Brix : ± 0.2%  Temp : ± 1 .o “C
- Unit % Brix, “C
- Power saving 90 seconds
- Weight 165g(including product
- Temperature compensation ATC(I O”C~60″C)
- Measure environment 10°C~40″C

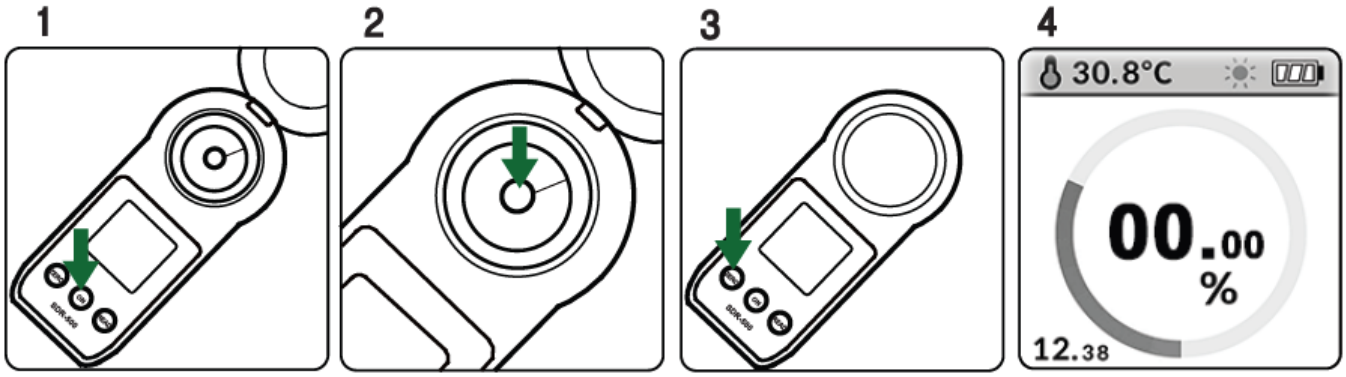
### How to Use




1. Press the ON/OFF  button
2. Put more than 0.5 cc of the test material on the optical sensor, then cover the case.
3. Press the READ button
4. The result is displayed on the LCD

- When measuring. put it in a separate tool such as a paper cup, and use the spoiler contained when dropping the sample.
- Please discard the samples used for the measurement.

### Calibration




1. Press the ON/OFF button after cleaning the sensor with clean or distilled water.
2. Put more than 0.5 cc of the test material on the optical sensor and cover the case.
3. Press the ZERO button.
4. The result is displayed on the LCD screen.

**caution**

1. Please refer to the instruction manual and always follow the instructions.
2. Mix samples thoroughly for accurate measurement.
3. Keep the optical glass sensor clean after each using. Do not use organic solvents (acetone, benzene, thinner for paints, gasoline, etc) to clean. After removing any dust, make sure to use clean water when cleaning the sensor to prevent scratches.
4. The result can be inaccurate when the usage environment was not followed.
5. Keep in room temperature and at shaded place.

6. The measurement sensor could malfunction in case of scratches, corrosion, foreign substances, or shape deformation.
7. Use the batteries specified in the standard and do not mix rechargeable batteries or used batteries.
8. Avoid dropping and prevent shock.
9. Do not submerge or drench the product completely in water.
10. Keep it out of reach of infants and children, and infants and children are not allowed to use the product.
11. Keep the battery separate when not using for long a time.
12. Do not dismantle or attempt to fix the product.

- Rule Part 15.19(a)(3): This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- Rule Part 15.21: The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

### Troubleshooting

| | |
|---|---|
| If product doesn't turn on | Replace with new batteries. |
| If result takes a long time | Clean the optical glass sensor, then put the test material and try again after 1D s econds. |
| If result is not reliable | Calibrate when clean water is not measured as 0%. Measure again after closing the cover.<br>Measure again after cleaning the optical glass sensor. |

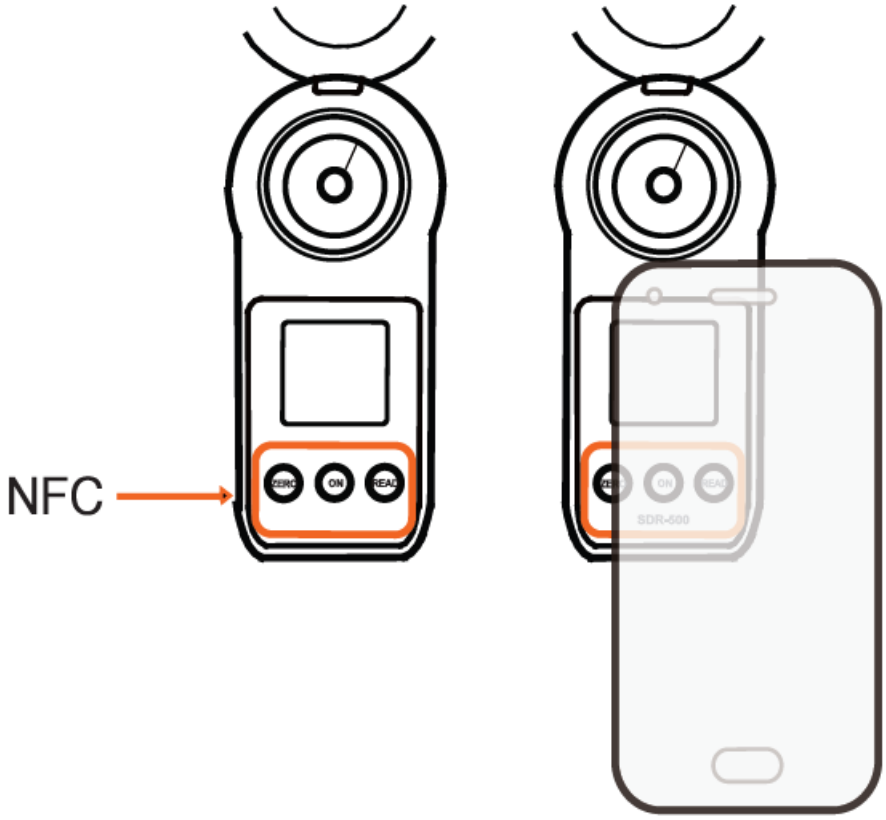
### How to use (mobile app)

The value measured by brix refractometer can be read on a mobile phone using NFC. You must activate the NFC function of the mobile phone and place it close to the bottom of the brix refractometer for 1 to 2 seconds to read the value on the mobile phone.
**Caution** : This feature works on Android and iPhone 7 or newer with NFC function built in.

**Download the App**

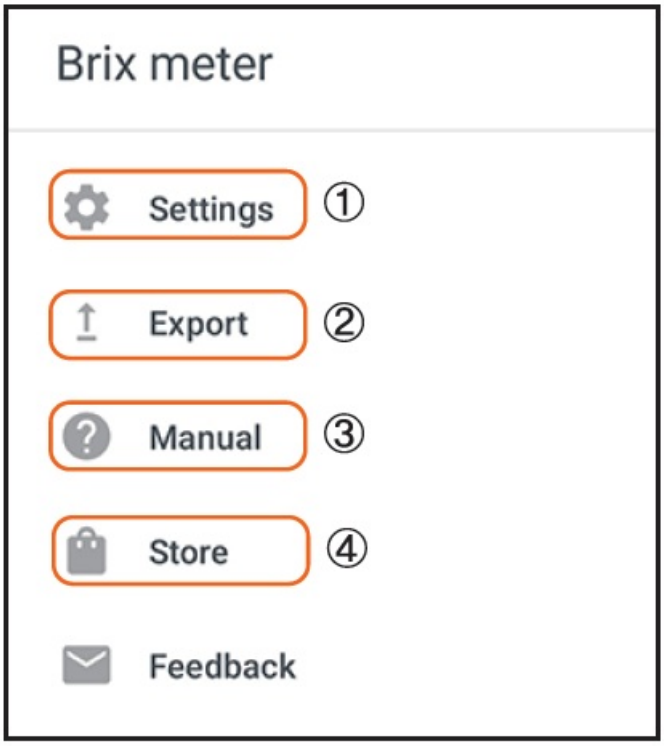
- Download and install the app through Google Play Store or Apple App Store.
  Search “Khalder Refractometer.”
- Turn on the NFC function in your mobile phone. (Refer to the mobile phone manual)

**Data Acquisition**
Tag the phone at the bottom of the brix refractometer after measurement is complete. (The value can be read on the phone even when the machine is turned off.)



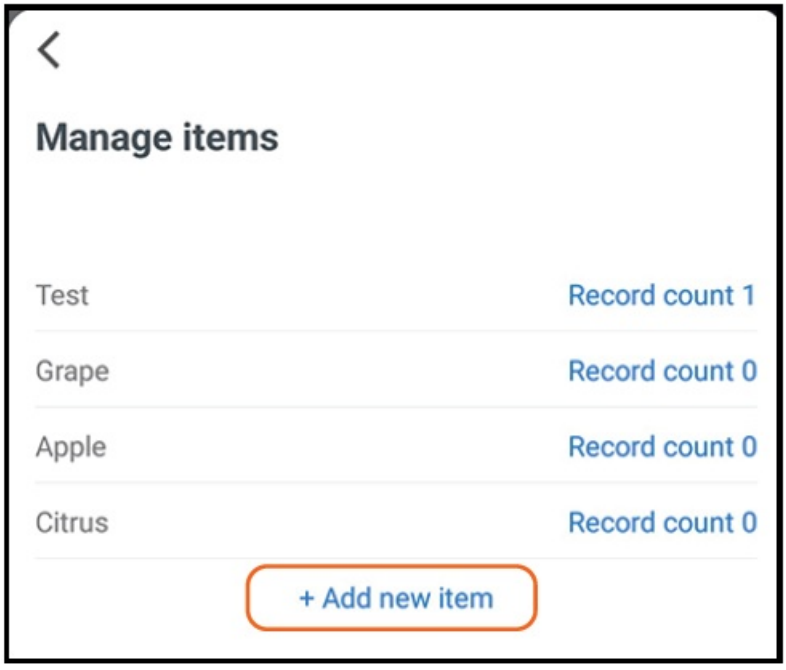

**Caution** : Each mobile phone has its own NFC detection area.
Be sure to find the correct location.
You need to tag your mobile phone at the bottom of the brix refractometer after starting the app to read the result value.
(iPhones must press to read the value.)

**Main Menu**



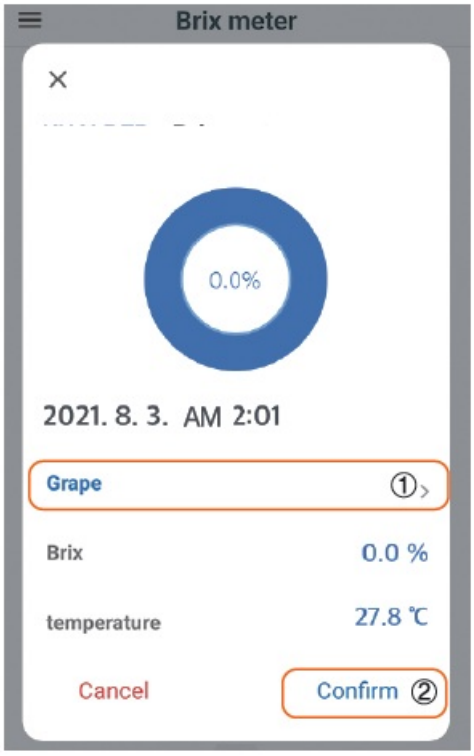

- **CD Settings:** Add the fruits name
- **Export:** Share the results with  others (messenger apps, text, e-mail, etc.)
- **Manual:** User Manual
- **Store:** Visit website

**Adding item**




Add new “fruit name”

**Saving results**

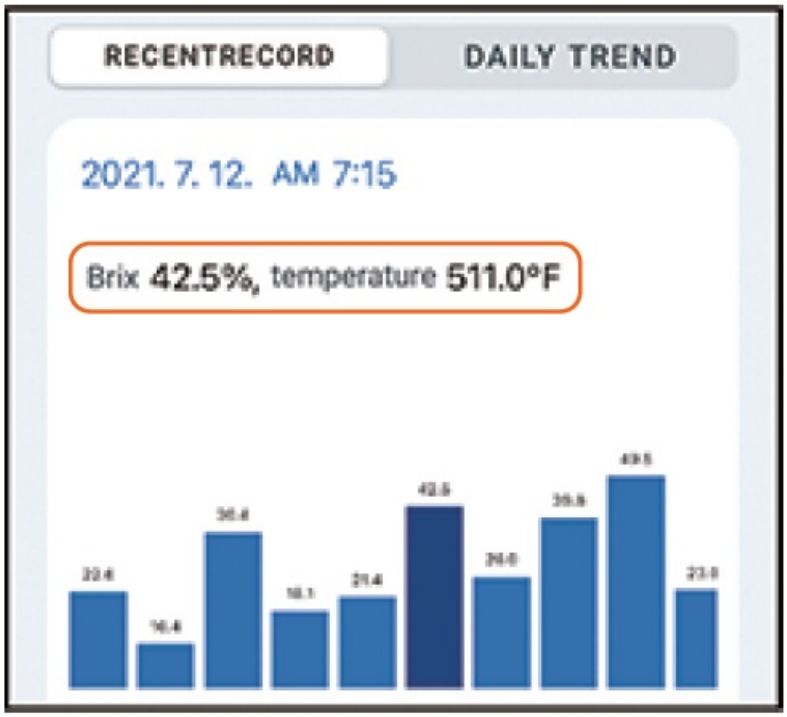



1. CD Select the desired ”fruit name.·
2. Press Confirm to save.

**Checking the fruit and results**

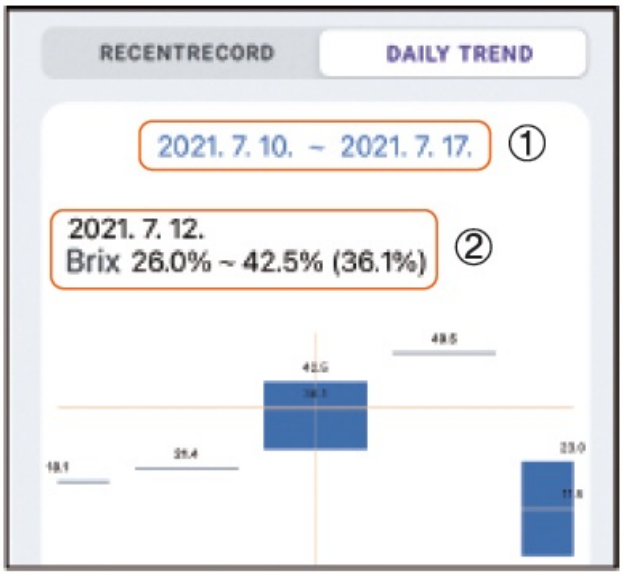

Selecting fruit name
Read the measured data
Check the recently saved results by selecting the “fruit name.”

**Recently saved results**




Select the result you want to check to see the date, brix value and temperature.
You can zoom in and out the screen.
zoom in and out V through drag

**View daily stats**




1. CD Select the period you want to check.
2. You can check the daily minimum and maximum (average) brix value.

   Zoom in and out V through drag

## Product warranty

**Product:** Khalder Digital Refractometer
**Model :** SRS03
**Manufacturer:** SNIX Electronics
**Seller:** FHI Korea Co., Ltd (02-703-7710)

**Guarantee period:** 1 year from the date of purchase.
**Purchase date :**
**Buyer:**
**Place of sale:**
Wren purchasing, you must record the content in thee product guarantee to receive .

## Documents / Resources

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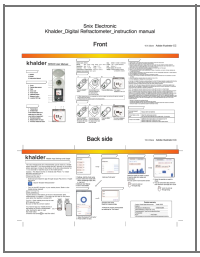
|  | Khalder SRS03 Digital Refractometer [pdf] User Manual<br>SRS03 Digital Refractometer, SRS03, Digital Refractometer, Refractometer |