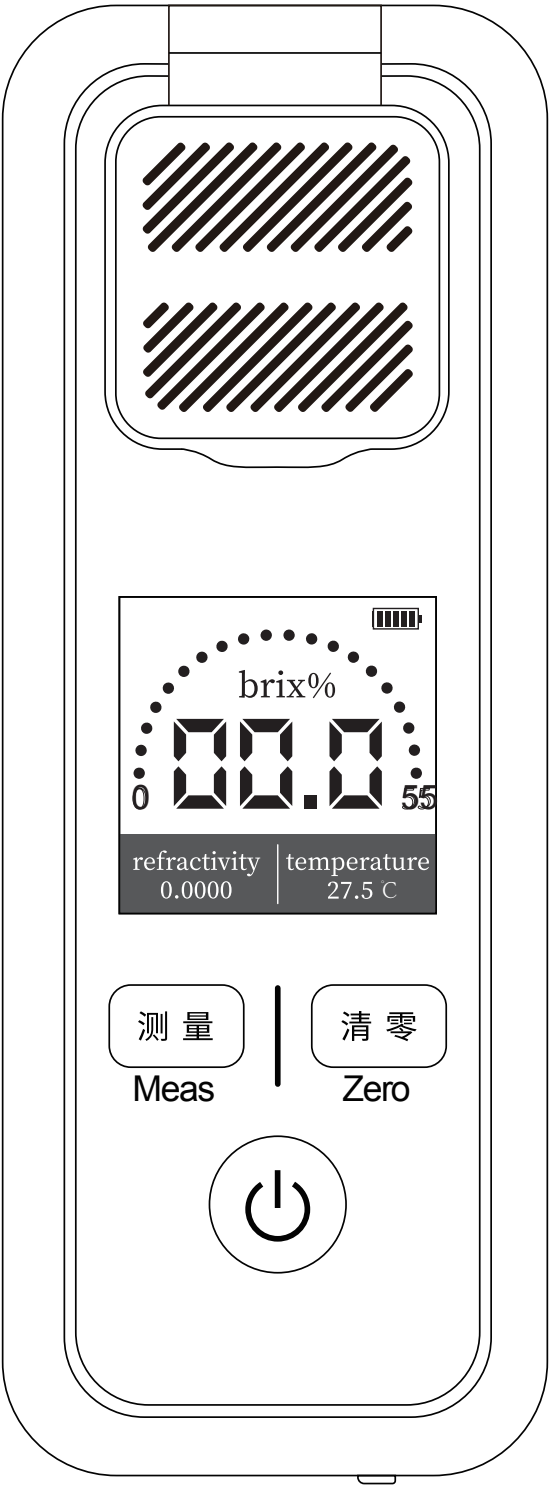
Intelligent Sugar Meter Manual



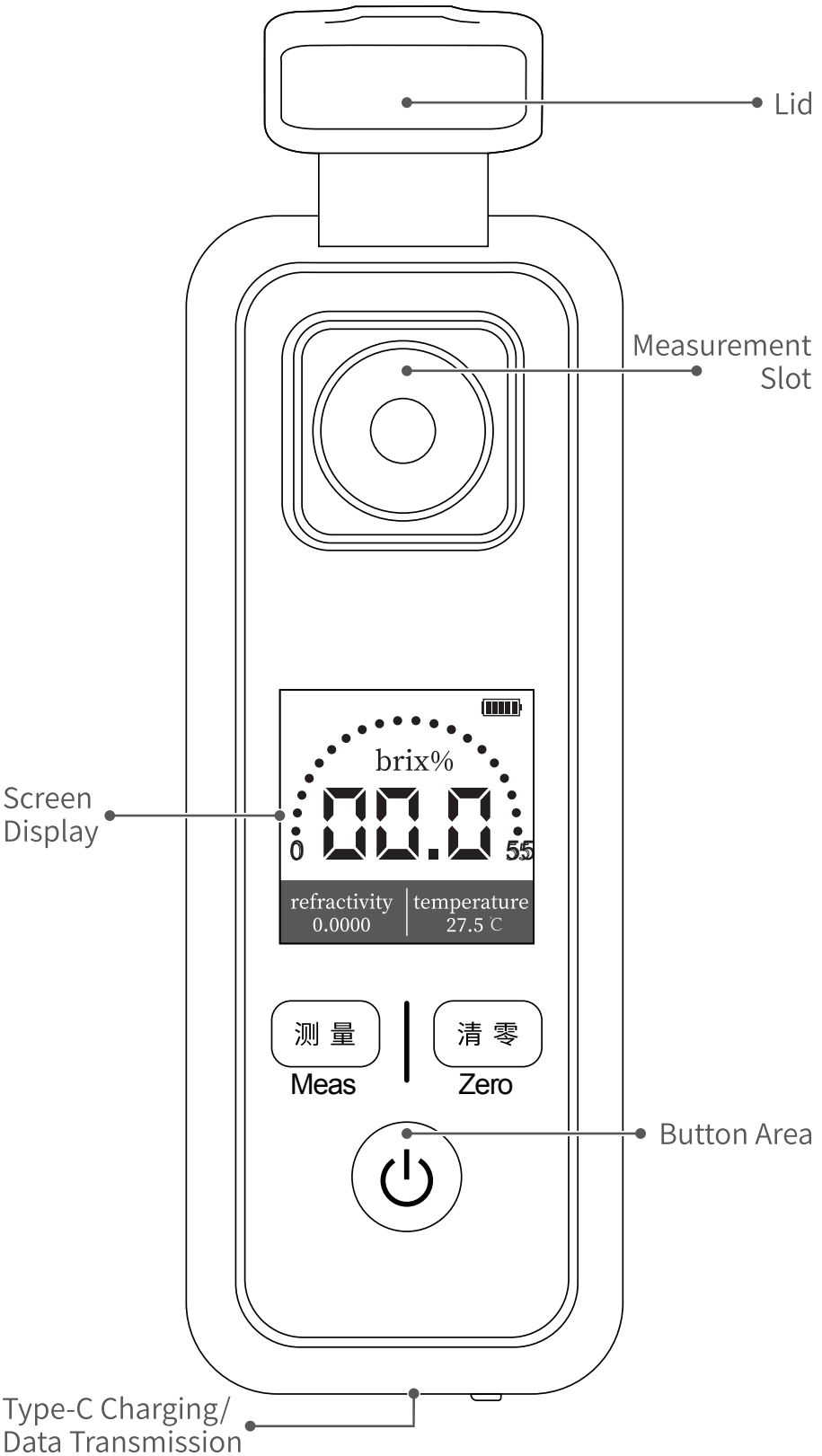
User Notice

- This manual provides detailed instructions on how to use the product, precautions, and relevant matters. Before using the product, please read the manual carefully to ensure the best performance of the product.
- Do not use the instrument in flammable or explosive environments.
- Dispose of used batteries and scrapped instruments in accordance with national or local regulations. Do not dispose of them with household waste.
- If there are any quality issues with the instrument or if you have any questions about using the instrument, please contact fnirsi online customer service. We will solve your problems promptly.

1.Product Overview

This product is an instrument used to measure the sugar concentration in juices, alcoholic beverages, and other solutions. It features a high-definition color screen display, rich measurement parameters, wide measurement range, and high accuracy. It is suitable for quickly detecting various concentrations of sugar solutions and widely used in the fields of beverages, food, sugar production, alcoholic beverages, agriculture, etc., to control the production process and ensure product quality.

2.Panel Introduction

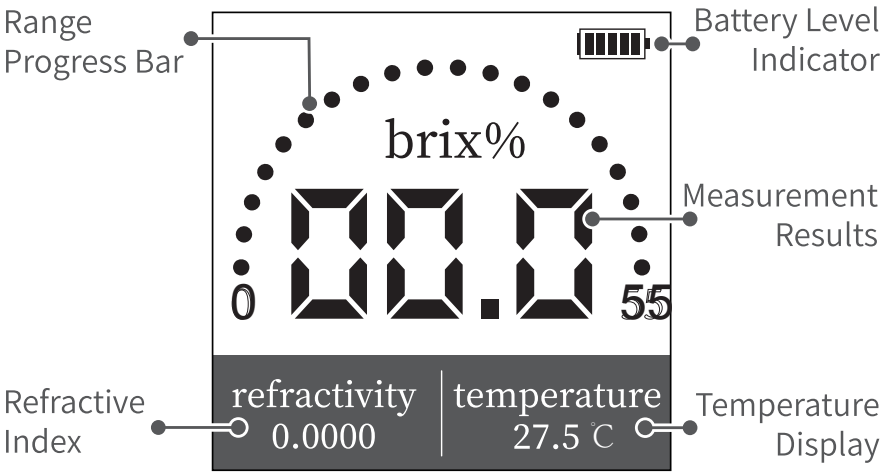


3. Parameter Introduction

Range	0%~55%Brix
Screen	1.54-inch IPS High-definition Color Screen
Precision	±0.2%
Lid design	✓
Language	Chinese / English
Size	46×31.5×125mm
Battery Capacity	600mAh
Charging Method	Type-C Charging
Functions	●Temperature/ Refractive Index/ Sugar Content Measurement ●One-Key Zeroing ●Automatic Shutdown ●Switch between Chinese and English ●Data Recording ●Brightness Adjustment ●Single Measurement Repeatability

4. Operating Instructions

Button	Operation	Function
⏻	Long Press	Power On/Off
	Short Press	Toggle List Function Key (Settings Interface)
Meas	Short Press	Perform Measurement (Measurement Interface)
	Short Press	Confirm Selection (Settings Interface)
Zero	Short Press	Zero Measurement Data (Measurement Interface)
		Return to Previous Level (Settings Interface)
	Long Press	Enter the Settings Interface



Interface Display

Operating Steps:

Cleaning:

①If there are oily or difficult-to-clean substances in the measurement slot, clean with ethanol or soapy water.

②Rinse with clean water and wipe with a tissue for at least three times (discard the tissue after each wipe).

Power On:

①Before measurement, review the precautions, then long press the power button to turn on the instrument.

Zeroing:

①Clean the water tank before use.

②Fill the measurement slot with clean water, at least two-thirds full. Short press the zeroing button and wait for zeroing.

③The screen displays "Measurement 0.0%", indicating that zeroing is complete.

Measurement:

①Drop the sample to be tested into the measurement slot, filling it at least two-thirds full.

②Press the measurement button, and data will be displayed within 5 seconds. Repeat the process for accurate results.

Settings:

①Long press the zeroing button to enter the settings interface. Use the power button to navigate up and down, the measurement button to confirm, and the zeroing button to return.

5. Firmware Upgrade

①Obtain the latest firmware from the official website and extract it to the desktop.

②Press and hold the measurement button, then connect the device to the computer using a USBA to Type-C data cable to enter firmware upgrade mode. At this point, a U-disk will appear on the computer.

③Copy the firmware to the U-disk. After successful copying, the device will automatically upgrade the firmware.

④Monitor the upgrade progress. Once the upgrade is complete, the device will restart. If the upgrade fails, please contact official customer service.

6. Precautions

- This instrument is a precision optical instrument and should be protected from collisions and falls.
- Test with clean water before use to ensure it reads 0.0%. If not, perform zeroing.
- Clean the measurement slot before and after each use.
- Do not scratch the optical prism inside the measurement slot with hard objects.
- Ensure the USB charging voltage does not exceed the DC 5V limit.
- The sample to be tested should fill at least two-thirds of the measurement slot.