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> ATAGO PAL-COFFEE(BX/TDS) Digital Handheld Pocket Refractometer User Manual

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INTRODUCTION

The ATAGO PAL-COFFEE(BX/TDS) is a compact, digital handheld refractometer designed for precise measurement of Brix and Total Dissolved Solids (TDS) in coffee. This instrument is essential for baristas and coffee enthusiasts to ensure consistency and quality in their brews. This manual provides comprehensive instructions for the proper use and care of your device.





Image: The ATAGO PAL-COFFEE(BX/TDS) refractometer shown with a cup of coffee and a spoon, demonstrating its use for coffee measurement.

SETUP

1. Unpacking

- Carefully remove the PAL-COFFEE(BX/TDS) refractometer from its packaging.
- Check for any visible damage. If damaged, contact your supplier immediately.
- Ensure all components listed in the packing slip are present.

2. Battery Installation

- Locate the battery compartment cover on the back of the unit.
- Open the cover and insert two AAA batteries, ensuring correct polarity (+/-).
- Close the battery compartment cover securely.

3. Initial Calibration (Zero Setting)

- Ensure the prism surface is clean and dry.
- Apply a few drops of clean tap water onto the prism surface.
- Press the 'ZERO' button. The display should show '0.00%' or '0.00' depending on the mode.

- Wipe the water off the prism with a soft, clean cloth. The device is now calibrated and ready for use.



Image: The ATAGO PAL-COFFEE(BX/TDS) refractometer resting on a bed of coffee beans, showcasing the device itself.

OPERATING INSTRUCTIONS

1. Sample Preparation

- Brew your coffee as desired.
- Allow the coffee to cool to room temperature (ideally between 20-25°C) for accurate readings, or ensure the device's Automatic Temperature Compensation (ATC) is active.
- Stir the coffee thoroughly to ensure a homogeneous sample.

2. Taking a Measurement

- Ensure the prism surface is clean and dry.
- Place 2-3 drops of the prepared coffee sample onto the prism surface. Ensure the entire surface is covered without air bubbles.
- Close the daylight plate gently over the sample.
- Press the 'START' button. The measurement will be displayed within a few seconds.



Image: A finger pressing the 'START' button on the ATAGO PAL-COFFEE(BX/TDS) refractometer, indicating the measurement process.

3. Reading Results

- The display will show the Brix (%) or TDS (%) value.
- To switch between Brix and TDS modes, refer to the device's specific button sequence (usually a long press or multiple presses of a specific button).
- Record your measurement for consistency tracking.

4. Cleaning After Use

- Immediately after each measurement, wipe the sample off the prism and daylight plate with a soft, damp cloth.
- Then, dry the prism surface completely with a clean, dry cloth.
- Do not use abrasive materials or harsh chemicals, as they can damage the prism.

MAINTENANCE

1. Cleaning the Prism

- Regularly clean the prism surface with a soft, lint-free cloth and a small amount of clean water.
- For stubborn residues, a mild soap solution can be used, followed by thorough rinsing with water and drying.
- Avoid scratching the prism surface.

2. Storage

- Store the refractometer in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep it in its protective case when not in use to prevent damage.

3. Battery Replacement

- When the battery indicator on the display shows low power, replace both AAA batteries promptly.
- Always use new batteries and dispose of old batteries according to local regulations.

TROUBLESHOOTING

Problem	Solution
Inaccurate readings	Ensure the prism is clean. Re-perform zero calibration with clean water. Ensure the sample temperature is stable.
Display shows 'Err'	This usually indicates a measurement error. Check if the prism is clean, if enough sample is applied, or if the sample is outside the measurement range. Re-calibrate if necessary.
Device does not turn on	Check if batteries are inserted correctly. Replace with new batteries.
Slow response or flickering display	Batteries may be low. Replace batteries.

SPECIFICATIONS

Feature	Value
Brand	Atago
Model	PAL-COFFEE(BX/TDS)
Product Dimensions	6 x 4 x 11 cm
Item Weight	180 grams
ASIN	B00LTH2PUG

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your

authorized Atago dealer. For technical support or service, please reach out to the manufacturer's customer service department or your local distributor. Keep your purchase receipt as proof of purchase.