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- › Titrette /
- › 4760161 Digital Burette/Dispenser; 50 mL - Instruction Manual

Titrette 4760161

Titrette 4760161 Digital Burette/Dispenser; 50 mL - Instruction Manual

Model: 4760161 | Brand: Titrette

INTRODUCTION

The Titrette 4760161 Digital Burette/Dispenser is designed for highly accurate and precise liquid dispensing in various laboratory applications. With a 50 mL capacity, this instrument is suitable for titration, reagent dispensing, and other precise liquid-handling tasks. Its digital interface facilitates easy, one-handed operation, and the ergonomic design helps minimize user fatigue, ensuring efficient workflows in both research and clinical environments. The Titrette Burette is engineered to deliver consistent and reliable results, enhancing experimental accuracy and streamlining laboratory processes.

PRODUCT OVERVIEW



Figure 1: The Titrette 4760161 Digital Bottle-top Burette/Dispenser. This image shows the complete unit, including the digital display, control buttons, dispensing tube, and the main body attached to a reagent bottle. The display clearly shows a numerical reading, indicating its digital capabilities.

The Titrette Digital Bottle-top Burette consists of several key components:

- **Digital Display:** Shows the dispensed volume with high precision.
- **Control Buttons:** For power, zeroing, and menu navigation.
- **Hand Wheels:** For precise manual titration.
- **Dispensing Tube:** The outlet for the dispensed liquid.
- **Recirculation Tube:** For priming and air bubble removal.
- **Bottle Adapter:** Connects the burette securely to various reagent bottles.

SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any damage.
2. **Bottle Attachment:** Select an appropriate reagent bottle. Screw the Titrette burette firmly onto the bottle neck. Ensure a tight seal to prevent leaks. Adapters for different bottle thread sizes are typically included.

3. **Tube Installation:** Attach the dispensing tube and the recirculation tube to their respective ports on the burette. Ensure the dispensing tube is positioned correctly for your application.
4. **Priming:** Before first use, or after changing reagents, prime the burette to remove air bubbles. Turn the hand wheels to draw liquid into the cylinder, then dispense it back into the bottle via the recirculation tube until no air bubbles are visible in the cylinder or dispensing tube.

OPERATING INSTRUCTIONS

Basic Dispensing

1. **Power On:** Press the power button to turn on the digital display.
2. **Zeroing:** Before starting a new titration or dispensing cycle, press the zero button to reset the display to 0.000 mL.
3. **Filling:** Turn the hand wheels to draw the desired volume of liquid into the burette cylinder. Ensure the liquid level is above the zero mark if performing a titration.
4. **Dispensing:** Slowly turn the hand wheels to dispense the liquid. The digital display will show the dispensed volume in real-time. For precise titration, dispense drop by drop as you approach the endpoint.
5. **Reading:** Read the final dispensed volume directly from the digital display.

Calibration

Regular calibration ensures the accuracy of your Titrette burette. Refer to the detailed calibration procedure in the full manufacturer's manual for specific steps, which typically involve gravimetric testing with distilled water and adjusting the instrument's settings based on the results.

MAINTENANCE

- **Cleaning:** After each use, especially when changing reagents, rinse the burette thoroughly with an appropriate cleaning solution (e.g., distilled water for aqueous solutions). For stubborn residues, consult the manufacturer's guidelines for compatible cleaning agents.
- **Storage:** When not in use, store the burette clean and dry, preferably attached to a clean, empty bottle or with a protective cap on the bottle adapter.
- **Inspection:** Periodically inspect the dispensing tube, recirculation tube, and bottle adapters for any signs of wear, cracks, or damage. Replace damaged components immediately.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate Dispensing	Air bubbles in the system; improper priming; need for calibration.	Re-prime the burette; perform calibration according to the manual.
Liquid Leaking	Loose bottle attachment; damaged seals or tubes.	Ensure burette is tightly screwed onto the bottle; check and replace seals/tubes if damaged.
Digital Display Not Working	Low battery; electronic malfunction.	Replace batteries; if issue persists, contact technical support.

SPECIFICATIONS

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- **Model:** 4760161
 - **Capacity:** 50 mL
 - **Type:** Digital Burette/Dispenser
 - **Manufacturer:** COLE-PARMER
 - **ASIN:** B01MS6HM33
 - **First Available:** January 11, 2017

WARRANTY AND SUPPORT

Specific warranty terms and detailed support contact information are not provided in this document. For warranty claims, technical assistance, or to purchase replacement parts, please refer to the original product packaging, the manufacturer's official website, or contact your authorized distributor. Always provide your product model number (4760161) and ASIN (B01MS6HM33) when seeking support.