

Draminski MD1Q

Draminski MD1Q Cow Mastitis Detector 1-Cup User Manual

Model: MD1Q

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1. INTRODUCTION

The Draminski MD1Q Cow Mastitis Detector is an electronic device designed for the early detection of subclinical mastitis in dairy cows. This device measures changes in milk resistance, which can indicate inflammatory conditions in the udder before visible symptoms appear. Early detection allows for timely intervention, contributing to improved herd health and milk quality. This manual provides essential information for the proper use, maintenance, and care of your MD1Q detector.

2. SAFETY INFORMATION

- Read this manual thoroughly before operating the device.
- Use the device only for its intended purpose as a mastitis detector for cows.
- Keep the device clean and dry. Avoid exposing it to excessive moisture or harsh chemicals.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Ensure proper hygiene when collecting milk samples to prevent contamination.
- Dispose of batteries and the device according to local environmental regulations.

3. PRODUCT OVERVIEW

The Draminski MD1Q detector is a portable, handheld device featuring a single collection cup and a digital display for easy reading of results. It is designed for quick and efficient testing in the field.



Figure 1: Draminski MD1Q Cow Mastitis Detector. This image shows the handheld device with its digital display, control buttons, and the single milk collection cup at the bottom.



Figure 2: Draminski MD1Q Cow Mastitis Detector with its protective carry case. The blue carry case with a yellow handle is designed for safe transport and storage of the detector.

4. SETUP

4.1. Battery Installation

1. Locate the battery compartment cover, typically on the back or bottom of the device.
2. Open the cover using a screwdriver or by sliding the latch, as indicated on the device.
3. Insert the required batteries (e.g., 9V or AA, refer to device markings if present) ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2. Initial Check

After installing batteries, press the power button (if available) to turn on the device. The display should illuminate, indicating the device is ready for use. If the display does not turn on, check battery installation or replace batteries.

5. OPERATING INSTRUCTIONS

Follow these steps for accurate mastitis detection:

1. **Preparation:** Ensure the device's collection cup is clean and dry. Identify the cow and the specific quarter of the udder to be tested.

2. **Collect Sample:** Discard the first few streams of milk from the selected quarter. Then, milk directly into the device's collection cup until it is filled to the indicated level (usually marked inside the cup). Avoid overfilling or underfilling.
3. **Activate Measurement:** Turn on the device (if not already on). The device will automatically begin measuring the electrical conductivity of the milk sample.
4. **Read Results:** Wait for the reading to stabilize on the digital display. The display will show a numerical value, typically representing milk conductivity. Consult the device's specific interpretation guidelines (often provided on a sticker or in a separate quick guide) to understand what values indicate a healthy udder versus potential mastitis. Generally, higher conductivity values suggest inflammation.
5. **Record Data:** For effective herd management, record the results for each quarter of each cow tested.
6. **Clean Device:** Immediately after each use, empty the milk from the cup and rinse it thoroughly with clean water. Refer to the Maintenance section for detailed cleaning instructions.
7. **Repeat for Other Quarters:** Repeat the process for all four quarters of the udder, cleaning the cup between each quarter to prevent cross-contamination.

Note: Environmental factors and individual cow variations can influence readings. Consistent testing and comparison with baseline values are recommended for best results. Consult a veterinarian for diagnosis and treatment of mastitis.

6. MAINTENANCE

6.1. Cleaning

- **After Each Use:** Rinse the milk collection cup and electrodes thoroughly with clean, lukewarm water immediately after each sample. This prevents milk residue buildup.
- **Regular Cleaning:** Periodically, clean the cup and electrodes with a mild, non-abrasive detergent solution. Rinse thoroughly with clean water afterwards to remove all detergent residue.
- **Drying:** Allow the cup and electrodes to air dry completely before storage. Do not use abrasive materials or harsh chemicals for cleaning.
- **Exterior:** Wipe the exterior of the device with a damp cloth. Do not immerse the main body of the detector in water.

6.2. Storage

Store the Draminski MD1Q detector in its carry case in a clean, dry place, away from direct sunlight, extreme temperatures, and corrosive substances. Remove batteries if the device will not be used for an extended period.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not turn on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
Inaccurate or inconsistent readings.	Dirty electrodes; insufficient milk sample; air bubbles in sample; device not calibrated (if applicable).	Clean electrodes thoroughly; ensure cup is filled to correct level; gently tap cup to remove bubbles; consult manufacturer for calibration instructions if needed.

Problem	Possible Cause	Solution
Display shows an error message.	Specific error condition.	Refer to the device's specific error code guide (if available) or contact customer support.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact Draminski customer support.

8. SPECIFICATIONS

Model: MD1Q

Function: Early detection of subclinical mastitis in cows

Measurement Principle: Electrical conductivity of milk

Sample Size: 1-cup (specific volume not provided, fill to indicated level)

Power Source: Battery operated (type not specified, check device for markings)

Display: Digital LCD

Dimensions (approximate, device only): Refer to product packaging or device markings for exact measurements.

Weight (approximate, device only): Refer to product packaging or device markings for exact weight.

Parcel Dimensions: 33.8 x 14.5 x 13.2 cm

Parcel Weight: 386 g

ASIN: B008RYS850

Date First Available: October 6, 2022

9. WARRANTY AND SUPPORT

Draminski products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Draminski website. For technical support, service, or inquiries, please contact Draminski customer service through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: Draminski

Website: www.draminski.com