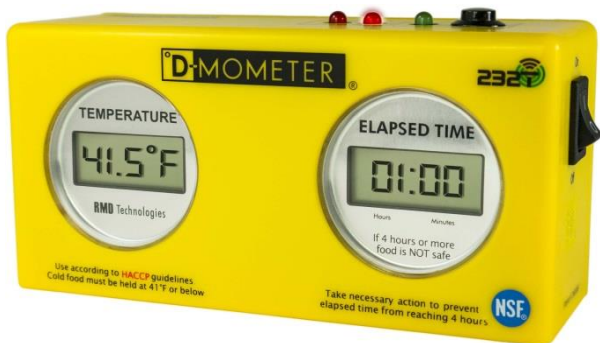




Ensuring Food Safety through Technology

## USER'S Guide

### Model 232T



Thank you for purchasing the D-Mometer® 232T .

Please Read this users Guide before installing batteries, and using. Please install the D-Mometer®232T according to manufacturer's recommendations (page 5). When using the Tam-Network device with the D-Mometer 232T devices the D-Mometer 232T device is placed into a refrigeration unit and records the temperature and time of the temperature reading and sends a RF signal that has the data of these reading . this data transmission is received by the Tam-Network device which stores within the Tam-Network device data logger. Then the Tam-Network sends this information/data

through GSM signal to cellular provider . The 232T and the Tam-Network communicate between each other through RF signal .

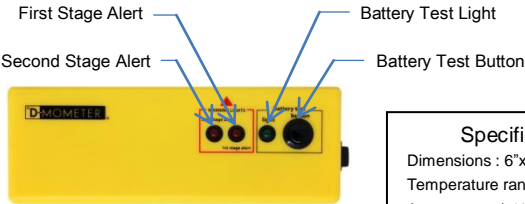
## **Inform - Prevent - Save**

The D-Mometer ®232T is a unique device that monitors the Time and Temperature exposure of food within a refrigeration unit. To be more informed of the existence of the foods exposure to the temperature danger zone (TDZ) and its cumulative exposure is required for Time and Temperature compliance. Being informed of a possible problem will allow the user to take the necessary actions to help reduce the risk of foodborne illness. Our belief that prevention is better than a cure is behind the design and function of the D-Mometer ®232T. Being informed of a possible problem will allow the user to take the necessary actions to help reduce the risk of foodborne illness Using The D-Mometer® 232T will allow restaurants, food retailers, and homeowners while they are present or away, to know whether the temperature in the refrigeration unit is sufficient to keep the food outside of the danger zone. The D-Mometer ®232T informs the user if the temperature of the refrigeration unit is above the recommended temperature for food, and allows the user to take the necessary actions to help prevent foodborne illness. Maintaining the food at the proper temperatures will allow the user to save product and its related costs. Follow HACCP program guidelines to monitor and control Time and Temperature of refrigerated food. The D-Mometer ®232T is ready to work 24/7. Easily and quickly the user has the opportunity to reduce the risk of foodborne illness by being informed by both audio and visual alerts if and when the refrigeration units' contents are exposed to improper temperatures. This will allow the user to follow their local Health Departments rules and regulations on proper Time and Temperature control. Every person is at risk of foodborne illness and this risk can be reduced greatly by following the FDA Food code guidelines on Time and Temperature control. Easily

and quickly a user can look at the D-Mometer ® 232T and know if and how long the contents of the refrigeration unit were in the TDZ.

illustrations

FRONT (figure 1)



Top (figure 2)

Specifications

Dimensions : 6"x3"x2" ( approx.)

Temperature range : 10 °F–90 ° F

Accuracy +/- ½ ° F

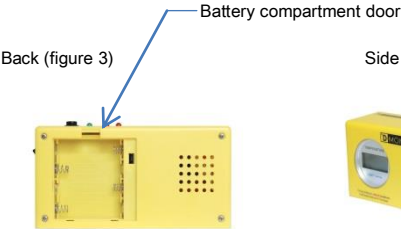
Voltage : 6 volts ( 4 – AA batteries )

Certifications : NSF ,ANSI

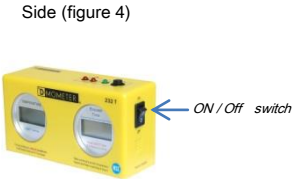
Product use :commercial/residential

United States Patented Design

FCC compliant



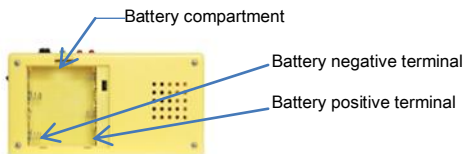
Back (figure 3)



Side (figure 4)

## Battery Installation and Guidelines

Battery Compartment (figure 5)



## Important Battery Recommendations

- 1) Use only Fresh New Batteries of the required size and type according to manufacturers recommendations.

**Manufacturer recommends the Use of** AA Energizer Ultimate Lithium® or AA Energizer Max® Alkaline batteries. Use of any other brand and type of battery voids warranty

When replacing batteries, remove all used batteries from the D-Mometer® at the same time, and then replace with all new batteries of the same brand, type, capacities and chemistry.

- 2) Do Not use Rechargeable batteries in the D-Mometer®.232T
- 3) Be sure to install batteries properly. Open the battery compartment, place batteries in the battery compartment as Illustrated in fig 5, following the polarity symbols (+) and (-) marked inside. The supply terminals are not to be short-circuited.
- 4) Routinely inspect the battery compartment every 2 months, to be sure batteries are in good condition. If at any time your D-Mometer ®232T Has displayed a second stage violation , please replace all batteries with new fresh batteries.

- 5) Do Not mix batteries of different types, capacities, brands or chemistry.
- 6) Dispose of batteries properly according to battery manufactures guidelines and state or local government ordinances and regulations.

## **Installation and Use**

Upon proper installation of batteries the device is Ready to monitor food temperature. Located on the top right side of the device is a battery power test button which has a corresponding green test light right next to it. Upon pressing the test button the green test light will illuminate, to confirm batteries have power and the system is ready. The unit can then be placed into a refrigeration unit (please refer to manufacturer recommendation's on page6). The D-Mometer® 232T should be faced in a position that will enable a person to see the indicators on the front and top of the device. After locating the proper location within the refrigeration unit leave device in the off position for approximately 45 minutes. This will allow the device to calibrate to the proper internal temperature. Then after 45 minutes turn the D-Mometer®232T on . The temperature display should read the appropriate temperature, if the refrigeration unit is working properly. If and when the temperature reaches above the predetermined temperature, the first stage red flashing indicator light will turn on, notifying the user that the food contained in the refrigeration unit is out of temperature. If and when the temperature over the predetermined temperature for a cumulative total of 4 hours the second stage red flashing light and chirper alarm will turn on, notifying the user that food has been over the predetermined temperature for 4 hours or more and that it is unsafe for human consumption and should be disposed of according to the guidelines of the FDA Food code and your local health department. The user must check each D-Mometer® 232T device daily several times during the day to see if your refrigerator is maintaining proper temperatures. This will help the user be aware if

there has been any temperature violations and the elapsed time amount . The user must take the necessary actions if any temperature violations have occurred and follow the FDA Food code and their local Health Departments rules and regulations for proper guidelines for refrigerated foods . The D-Mometer®232T is an easy to use device for monitoring time temperature exposure within an environment and providing an alarm (audio, visual) if the time and temperature exceeds certain predetermined parameters as a function of a known temperature over a known time parameter.

Easily and quickly a user can look at this device and know if and how long the contents of the refrigerator were in the temperature danger zone. If food has been in the temperature danger zone for a prolonged period of time, it is subject to spoilage. The longer the food is in the temperature danger zone, the more likely unhealthy bacteria will grow. The user can be more informed about the foods possible exposure to improper temperatures .

### **D-Mometer ® 232T Placement**

Please follow the manufacturer's recommendations for your D-Mometer ®, to ensure accurate and proper function. Please follow the FDA Food Code and your local Health departments rules and regulations when installing any device in your establishment.

When installing your D-Mometer®232T please follow all of the recommendations:

- 1) Place on a clean, dry and level surface. (If in Walk-in Box then not closer than 12 inches from the floor) Do Not place on floor.
- 2) Surface of shelf must be of approved surface and construction by FDA Food Code and your local Health Department's rules and regulations.
- 3) Place in a location that is Not in line or near air flow from refrigeration's cooling fan. Do Not place near compressor, any moving parts, thermostat, light fixture, electrical outlet, liquids or any item that can damage the D-Mometer®232T .

- 4) Place in an area that can have a clear unobstructed view of the D-Mometer®232T front, top and sides.
- 5) Do Not place in area or space that blocks or obstructs both sides and back of the device
- 6) Do Not have anything touching sides, top, or back. The D-Mometer®232T must have a minimum clearance of 3 inches on both sides and 4 inches on back.
- 7) Do Not place on door, moving parts, moving shelves, on top of food or food container.
- 8) Do Not place behind refrigeration cooling fan, compressor or thermostat.
- 9) Do Not place on ceiling or near fire sprinkler head or unit.
- 10) Place in an area that is near mid center to your refrigeration unit, but not at the coldest location.
- 11) For more information and illustrations please visit our web site at [www.D-Mometer.com](http://www.D-Mometer.com)
- 12) Do not place more than one D-Mometer®232T device in the same refrigeration unit or next to each other , malfunction will occur

## **Care and Maintenance**

For proper use and function of your D-Mometer®232T please follow the manufacturer's guidelines.

- 1) Check battery power on a regular basis. Check battery compartment for safety and quality of batteries
- 2) If your D-Mometer®232T has been in a second stage temperature violation, you should replace all batteries with new, fresh batteries.
- 3) Make sure device is clean and dry.
- 4) Make sure there are no liquid or solid materials on or near device.
- 5) Wipe with soft towel and keep level.

## **Trouble shooting :**

If Device does not turn on:

- make sure the correct type of batteries are installed and

are placed into the battery compartment in the proper position

- make sure all the batteries are fully charged and not damaged
- If still unable to turn on please contact customer support or visit our website to submit a customer care request form

If the Temperature gauge displays “HI “ :

- This will occur when the temperature has reached 99.9 °F or more

If the Temperature gauge displays “ LO”

- This will occur when the temperature when the temperature has reached -50 °F or lower

If The chirper sound is lower than normal :

- battery power is low and all batteries must be replaced immediately

If Battery test light is dim or does not light :

- battery power is low and all batteries must be replaced

If any other problems occur please visit our web site for more information , submit a customer care form , or contact customer support .

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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



## Limited Warranty

If within 30 days of original purchase, this device is defective or does not work properly, RMD Technologies, LLC will repair or replace the device providing customer has registered the device within 30 days of original purchase, has original purchase documents and has a confirmed registration of warranty. Please visit [www.D-Mometer.com](http://www.D-Mometer.com) for additional details and product warranty information request form and submittal. Address for returning your device : RMD Technologies , LLC , 635 West Michigan street , Orlando FL. 32895 Attention returns department

Preparation for shipping your product :

Please repack your device in a durable box , preferably in the original carton , and send it prepaid and adequately insured . Include the original invoice and documentation of product registration along with description of issue , or a copy of the product return form from our website . for further information please send all inquiries to [customerservice@D-mometer.com](mailto:customerservice@D-mometer.com)

The 1 year Limited Warranty of this product is from date of its original purchase. This warranty does not cover: damage or failure caused by or attributable to abuse, misuse, water or moisture damage, failure to follow instructions in the user's guide, failure to adhere to manufacturers recommendation's for placement and use, failure to adhere to manufacturer's recommendation's for type of batteries to install in the D-Mometer ®232T, improper installation or maintenance, any alteration or accidental damage, Acts of God (such as floods, or lightning) or excess voltage or current, damage due to any type of liquid or solid material, consumables such as batteries, wear and tear, or cosmetic damage, transportation, shipping or insurance costs, costs of product removal, installation, set-up service, adjustments or reinstallation, and claims by any other person other than original purchaser.

Should a problem occur that is covered by this limited warranty, RMD Technologies, LLC will, at its option, repair or replace the device.

RMD Technologies, LLC Expressly disclaims all warranties and conditions not stated in this limited warranty. Any implied warranties that may be imposed by law, including the implied warranty of merchantability and, if applicable, the implied warranty of fitness for a particular purpose, shall expire on the expiration of the stated warranty period. Except as described above, RMD Technologies, LLC shall have no liability or responsibility to the purchaser of the product or any other person or entity with respect to any liability, loss or damage caused directly or indirectly by use or performance of the product or arising out of any breach of this warranty, including, but not limited to, any damages resulting from inconvenience and any loss of time, data, property, revenue, or profit and any indirect, special, incidental, or consequential damages, even if RMD Technologies, LLC has been advised of the possibility of such damages.

This Limited warranty does not cover normal wear of parts , or damage resulting from any of the following negligent use or misuse of the product, use on improper voltage or current use contrary to the operating instructions, disassembly, repair or alteration by anyone other than RMD Technologies, LLC or an un-authorized service center, further the warranty does not cover acts of god, such as fire, flood, hurricanes and tornadoes.