



## USER GUIDE

# Digital Food Thermometer

### Model TM55



### *Introduction*

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Thank you for selecting the Extech Instruments Model TM55. The TM55 is NFS certified for measuring the temperature of liquids, pastes, and semi-solids for all-purpose food checks. The TM55 was designed for use in the food industry, in homes, businesses, laboratories, agricultural applications (for soil), and educational facilities. This device is shipped fully tested and calibrated and, with proper use, will provide years of reliable service.

### *Features*

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- Pocket size, fold-out thermometer
- NSF certified for measuring liquids, pastes, and semi-solid foods
- Probe length 2.4" (60 mm); tapered probe tip for easy insertions
- Splash-proof housing is IP 65 rating
- Ultrasonically welded housing with anti-microbial additive
- Automatic Power OFF after 60 minutes
- Built-in magnetic strip allows for appliance attachment
- Dishwasher friendly (top rack only!)

## Safety

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- Before use please read the entire User Guide carefully
- This product is intended for applications described in this User Guide only
- Unauthorized repairs/modifications/changes to this product are prohibited and void the warranty
- This instrument is not intended for use in medical applications or on medical devices of any kind



### **Caution!** **Risk of injury:**

- Keep this instrument and its batteries out of the reach of children
- Be careful when using the probe. Always store the instrument safely folded.
- Do not place batteries in a fire
- Do not short-circuit batteries
- Do not dis-assemble the batteries
- Do not attempt to re-charge the batteries. Risk of explosion!
- Batteries can be fatal if swallowed, if swallowed get medical assistance immediately
- Batteries contain harmful acids. Low batteries should be replaced as soon as possible to prevent damage caused by leaking batteries
- Wear chemical-resistant gloves and eye protection when handling leaking batteries



### **Important information on product safety!**

- Do not expose the unit to extreme temperature, vibration, or shock
- Only the probe can withstand temperature up to 482°F (250°C) not the instrument
- Never place the probe directly over fire

## Getting Started


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- Using a coin, open the battery compartment by turning the compartment lid to the left and then remove the insulating strip. Close the compartment after removing the insulating strip.
- Remove the protective display foil.
- Carefully fold out the thermometer probe and the unit is now ready to use.
- The sensor is located at the tip of the probe. To measure temperature, insert the probe into the material under test to a depth of at least 0.4" (1 cm).
- The probe has a rotational angle of 180 degrees maximum.
- Switch the instrument power OFF by carefully folding the probe into its storage position.
- The instrument will automatically switch OFF after 60 minutes of inactivity. To switch the instrument ON, fold the probe in for 4 seconds and then fold out again.

## **Battery Replacement**

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When the low battery icon  and the **ERROR** icon appear on the display, the CR2023 battery must be replaced:

- Using a coin, open the battery compartment by turning the compartment lid to the left
- Remove the old battery and insert new CR2023 with the positive (+) side facing upward
- Close the battery compartment tightly by turning the compartment lid to the right

### **Battery Safety Reminders**

- Please dispose of batteries responsibly; observe local, state, and national regulations.
- Never dispose of batteries in a fire; batteries may explode or leak.

## **Troubleshooting**

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### **NO DISPLAY:**

Fold the probe in and wait several seconds. Then fold the probe out.

Check for battery and check for proper battery polarity (positive side facing up)

### **INCORRECT DISPLAY:**

Replace battery

Check the position of the probe; the probe must be inserted into test material to a depth of at least 0.4" (1cm)

## **Care and Maintenance**

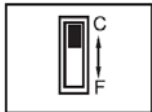
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- Clean the instrument with a damp cloth. Do not use abrasives, solvents, or scouring agents
- Remove the battery when the instrument is to be stored for long periods
- Keep the instrument in a dry storage location
- To prolong the battery life close (fold in) the probe when not in use

## Selecting the Temperature Unit of Measure (C, F)

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- Start with the probe folded in (meter switched OFF)
- Open the battery compartment as described above in the battery replacement section
- Locate the Unit of Measure switch inside the battery compartment
- Move the switch to the degrees 'F' or 'C' position as desired
- Close the battery compartment carefully
- Carefully fold out the probe, the display will now show the selected unit of measure icon



## Specifications

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Display	Multi-function LCD
Update rate	2 readings per second
Response time in moving liquids	4 seconds (approx.)
Measurement ranges	-40 to 482°F (-40 to 250°C)
Resolution	0.1° F/C
Accuracy	± 1°F from -4 to 302°F (± 0.5°C from -20 to 150°C) Otherwise ± 3°F (1.5°C)
Low battery indication	Battery symbol/ERROR icon appear on the LCD
Power supply	1 x CR-2032 Battery
Operating Temperature	32 to 122°F (0 to 50°C)
Dimensions	4.6 x 1.5 x 0.8" (116 x 38 x 20mm)
Weight	Approx. 1.3 oz. (41.2g) with battery installed

## Warranty

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*FLIR Systems, Inc. warrants this Extech Instruments brand device to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies to sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department for authorization. Return Authorization (RA) number must be issued before any product is returned. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specification, improper maintenance or repair, or unauthorized modification. FLIR Systems, Inc. specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. FLIR's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.*

## Calibration, Repair, and Customer Care Services

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**FLIR Systems, Inc. offers repair and calibration services** for the Extech Instruments products we sell. NIST certification for most products is also provided. Call the Customer Service Department for information on calibration services available for this product. Annual calibrations should be performed to verify meter performance and accuracy. Technical support and general customer service is also provided, refer to the contact information provided below.

## Garantie

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*FLIR Systems, Inc. garantit que cet appareil Extech Instruments est exempt de défauts matériaux et de fabrication pendant un an à partir de la date d'envoi (une garantie limitée de six mois s'applique aux capteurs et aux câbles). Si le renvoi de l'appareil pour réparation devient nécessaire durant ou après la période de garantie, contactez le service client pour autorisation. Un numéro d'autorisation de retour (AR) doit être délivré avant tout retour de produit. L'expéditeur prend à sa charge les frais d'expédition, le fret, l'assurance et l'emballage correct de l'appareil afin de prévenir toute détérioration durant le transport. Cette garantie ne s'applique pas aux dommages imputables à l'utilisateur, tels que l'usage impropre ou abusif, un mauvais câblage, une utilisation non conforme aux spécifications, un entretien ou une réparation incorrecte, ou toute modification non autorisée. FLIR Systems, Inc. déclinera spécifiquement toute garantie ou qualité marchande ou aptitude à l'emploi prévu, et ne sera en aucun cas tenu responsable pour tout dommage conséquent, direct, indirect ou accidentel. La responsabilité totale de FLIR est limitée à la réparation ou au remplacement du produit. La garantie définie ci-dessus est inclusive et aucune autre garantie, écrite ou orale, n'est exprimée ou implicite.*

## Calibrage, réparation et services après-vente

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**FLIR Systems, Inc. offre des services de calibrage et de réparation** pour les produits Extech Instruments que nous commercialisons. Nous fournissons également une certification NIST pour la plupart des produits. Contactez notre service client pour toute information sur les services de calibrage disponibles pour ce produit. Un calibrage doit être effectué chaque année pour vérifier les performances et la précision du mètre. Nous offrons également une assistance technique et un service à la clientèle. Veuillez vous reporter aux coordonnées fournies ci-dessous.

## **Garantía**

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*FLIR Systems, Inc., garantiza este dispositivo marca Extech Instruments para estar libre de defectos en partes o mano de obra durante un año a partir de la fecha de embarque (se aplica una garantía limitada de seis meses para cables y sensores). Si fuera necesario regresar el instrumento para servicio durante o después del periodo de garantía, llame al Departamento de Servicio a Clientes para obtener autorización. Se debe expedir un número de Autorización de Devolución (AD) antes de regresar cualquier producto. El remitente es responsable de los gastos de embarque, flete, seguro y empaque apropiado para prevenir daños en tránsito. Esta garantía no se aplica a defectos resultantes de las acciones del usuario como el mal uso, alambrado equivocado, operación fuera de las especificaciones, mantenimiento o reparación inadecuada o modificación no autorizada. FLIR Systems, Inc., rechaza específicamente cualesquier garantías implícitas o factibilidad de comercialización o idoneidad para cualquier propósito determinado y no será responsable por cualesquier daños directos, indirectos, incidentales o consecuentes. La responsabilidad total de FLIR está limitada a la reparación o reemplazo del producto. La garantía precedente es inclusiva y no hay otra garantía ya sea escrita u oral, expresa o implícita.*

## **Servicios de calibración, reparación y atención a clientes**

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**FLIR Systems, Inc., ofrece servicios de reparación y calibración** para los productos que vendemos de Extech Instruments. Además ofrecemos certificación NIST para la mayoría de los productos. Llame al Departamento de Servicio al Cliente para solicitar información de calibración para este producto. Para verificar el funcionamiento y precisión se debe realizar la calibración anual. Además se provee Soporte Técnico y servicios generales al cliente, consulte la información de contacto en seguida.