



Professional Clinical Thermometer With TouchFree™ Technology

PRO-TF SERIES
PRO-TF300



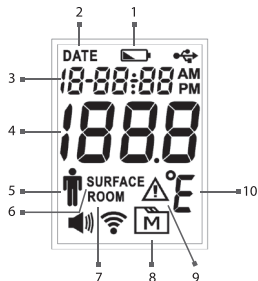
Instructions For Use



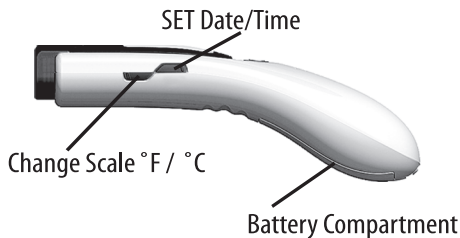
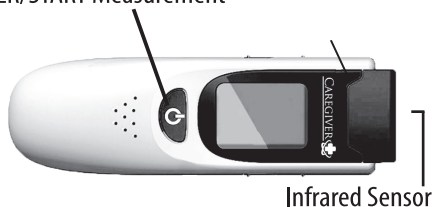
Copyright© 2021 Thermomedics All Rights Reserved

1. Low battery indicator
2. Date indicator
3. Date/Time
4. Temperature reading
5. Body temperature indicator
6. Object surface temperature indicator
7. Room temperature indicator
8. Memory mode
9. Error warning
10. Temperature unit °F/°C

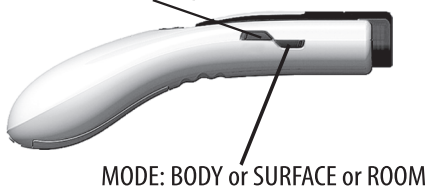
CONTROLS and DISPLAY



POWER/START Measurement



MEM: Recall stored temperature





In the Box

Caregiver® PRO-TF300 Thermometer, Sensor Cap, Quick Start Card, Instructions For Use Manual, and 2 "AA" Alkaline Batteries.

Table of Contents

Controls and Display	2
Introduction	3
Features	4
Intended Use	4
Important Precautions	4
Initial Setup	5
Body Temperature Measurement	6
Temperature Recall	8
Changing °F/°C Temperature Scale	8
SURFACE and ROOM Temperature Modes	8
Setting Date and Time	9
Maintenance/Cleaning	10
Troubleshooting	11
Specifications	12
References	13
Service Center	16

Introduction

The Caregiver Non-Contact Thermometer is the next generation answer to ease of use and patient compliance in clinical thermometry. Simple one button operation delivers a temperature in approx. 1 second without contact to the patient.

Features

- Fast measurement that meets ASTM and ISO standards
- Simple 1-button operation, no scanning required
- No cross-contamination and may be used on sleeping patient
- Audible and visual indication of completed temperature
- Backlit LCD display and Low Battery indication
- Long Battery Life of more than 10,000 temperatures (typical) with Sleep Mode
- 30-temperature memory recall with date and time stamp
- Able to measure temperature of other objects without contact and also room temperature
- Measures natural thermal radiation. Does not emit radiation

Intended Use

Caregiver® Professional Clinical Thermometer is an infrared thermometer intended for the measurement of human body temperature in people of all ages without contact to the body and is to be used by medical professionals.

Important Precautions

- **Read this manual thoroughly prior to using. Use this product only for its intended use.**
- **Caregiver is a precision optical thermometer. Handle carefully and do not drop. Do not use if thermometer has suffered damage.**
- **Insure that sensor end is clean and free of debris. See Maintenance/Cleaning for instructions.**
- **Caregiver is a non-sterile device. Do not use ethylene oxide gas, heat, autoclave, or any other harsh method to sterilize.**
- **Replace protective sensor cap when not in use.**
- **If coming from a warmer or cooler environment or after a period of exertion, allow the patient and thermometer to acclimate to room temperature for 20 minutes prior to taking temperature.**
- **Remove perspiration and excess oil from the forehead as this may affect the accuracy of the reading.**

- Operating environment is from 50°F to 104°F (10°C to 40°C).
- Do not expose to severe environments. Storage temperature is from -4°F to 140°F (-20°C to +60°C).
- Do not use in presence of flammable anaesthetic mixtures.
- Do not use on patients with scarred tissue or tissue compromised by skin disorders or trauma in the vicinity of the forehead measurement area; patients treated with certain drug therapies that may affect normal body temperature or use on patients while skin is exposed to external sources of heat or cold such as direct sunlight, fireplace heat, cold compress therapies, air conditioner flow, etc.

Initial Setup

1. To remove Battery Cover, press down at the arrow mark and also on the center of the cover, SLIDE it in the direction of the arrow as shown in Figure 1.
2. Install (2) AA alkaline batteries with polarity as shown in the battery compartment. All LCD display segments will briefly illuminate during self-test, and you will hear a "beep".
3. Close the battery cover by pressing down both the arrow mark and the bottom of the cover, SLIDING the cover in the opposite direction of the arrow as shown in Figure 2.

Do NOT press the battery cover to force it closed if the battery cover doesn't close tight as shown in Figure 3. If this happens, remove the battery cover by SLIDING as described in step 1. Repeat step 3 to close the battery cover tight.

Caution: Closing the battery cover by force may damage the battery cover latch and result in battery damage. Always follow the instructions and close the battery cover by SLIDING only.

If thermometer will be stored for a long period, remove batteries.

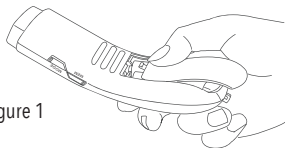


Figure 1

Figure 2

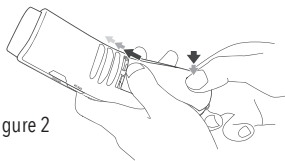


Figure 3



- SET Date and Time as described later in **Setting Date and Time**
- Caregiver defaults to °F temperature scale and BODY Mode

Body Temperature Measurement

About Body Temperature & Fever

Body temperature can vary from one person to the next and also varies by location on the body and time of day. Temperatures measured from different sites, even at the same time, should not be directly compared. Fever indicates that body temperature is higher than normal. This may be caused by a number of conditions including infection, overexertion, overdressing or immunization. Some people may not experience fever even when they are ill. These include, but are not limited to, infants younger than 3 months old, persons with compromised immune systems, persons taking antibiotics, steroids or antipyretics (aspirin, ibuprofen, acetaminophen), or persons with certain chronic illnesses. Please consult your physician when you feel ill even if you do not have fever.

BODY Temperature Mode

In BODY MODE, the icon at the left is shown on the display and temperature is adjusted to an Oral (sublingual) temperature approximation. Normal Oral temperature is typically 96.3°F to 99.9°F (35.7°C to 37.7°C) but varies by age, gender and time of day¹.

Remove Caregiver® from (optional) Wall Mount if necessary.

Remove protective CAP if present.



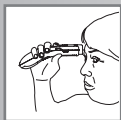


Inspect Sensor and remove any debris. Clean if necessary.



Remove hair and perspiration from center forehead area.

- If patient was lying face down or was wearing a hat or garment covering the skin, allow the forehead to be exposed to the air in the room for 5 minutes prior to taking reading.
- Relocate patient if in drafty environment.

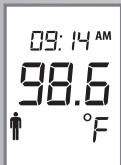


Aim at center forehead area 1/2" to 2" away from skin surface (1.2 to 5 cm). Be sure thermometer is perpendicular to skin surface (at right angle).



Press and release the POWER button. Hold thermometer in place until a double audio "beep" is heard and the temperature is displayed on the LCD.

Be sure BODY temperature icon is displayed. Read Temperature.



If temperature is suspected to be incorrect or display reads "LO" or "HI" consult the Troubleshooting - Error Codes Section of this manual.

Replace Sensor Cap and place in (optional) Wall Mount.



WALL MOUNT MODEL WMT-TF

DATE

2-13-11

01



12:26 AM

98.6



-- --



Temperature Recall

If Caregiver® is powered off (blank display), press **POWER**. Press **MEM** button and hold. The date and a number from 1 to 30 will be displayed indicating the temperature number. "01" is the most recently taken temperature and "30" is the oldest. (After 30 temperatures are stored, the oldest will be deleted)

Release the **MEM** button and the "TIME" "Temperature" and **MODE** of the temperature is displayed. Example: Feb. 13, 2011 at 12:26AM, a 98.6 °F **BODY** mode temperature was taken.

Repeat pressing and releasing **MEM** to display earlier stored temperatures "02" through "30".

Press **POWER** button to exit this function.

Changing °F/°C Temperature Scale

The temperature scale (Fahrenheit or Celsius) may be changed using the following procedure.

If Caregiver is powered off (blank display), press **POWER**.

Press the °C/°F button. The current scale is displayed.

Press the °C/°F button again to change scale. The new scale will be displayed.

Press **POWER** to exit this function.

SURFACE and ROOM Temperature Modes

SURFACE Temperature Mode

Surface temperature mode measures the surface temperature of an object placed within the field of view (FOV) of the thermometer. At 2" (5cm) away, the FOV is a 0.84" (2.1cm) circle ($\pm 8^\circ$ cone angle FOV). Accuracy varies with the type of object being measured and the temperature of the surrounding environment.

ROOM Temperature Mode

Room temperature mode measures the temperature of the room in which the thermometer is located. Allow 20 minutes for the thermometer to adjust to abrupt changes in room temperature.

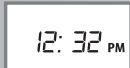
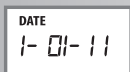
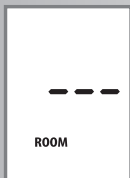
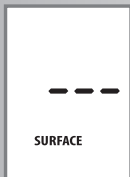
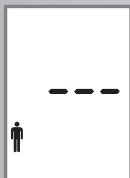
Setting SURFACE or ROOM Modes

1. If Caregiver® is powered off (blank display), press **POWER**.
2. Press and hold **MODE** for 1 second. The currently set Mode (Body, Surface or Room) will flash.
3. Press **MODE** repeatedly to cycle to the next mode - SURFACE/ROOM/BODY.
4. Press **POWER** key to exit this function and display the temperature in the desired Mode.
5. Caregiver will remain in the chosen Mode with each press of the **POWER** button until it powers off after 30 seconds. It will then revert back to **BODY** Mode.

Setting Date and Time

This setting is only necessary at initial setup and when the batteries are changed.

1. If Caregiver is powered off (blank display), press **POWER**.
2. Press and hold **SET** for 1 second. The currently set date will display and the "months" digits will flash.
3. Press **MODE** repeatedly to increase the month by 1 or press **°C/°F** repeatedly to decrease the month by 1.
4. Press **SET** to change the DAY. The "day" digits will flash.
5. Press **MODE** repeatedly to increase the day by 1 or press **°C/°F** repeatedly to decrease the day by 1.
6. Press **SET** to change the YEAR. The "year" digits will flash.
7. Press **MODE** repeatedly to increase the year by 1 or press **°C/°F** repeatedly to decrease the year by 1.



8. Press **SET** to change the HOURS and toggle AM/PM. The "hours" digits will flash and "AM" or "PM" will light.
9. Press **MODE** repeatedly to increase the hours by 1 or press **°C/°F** repeatedly to decrease the hours by 1.
10. Press **SET** to change the MINUTES. The "minutes" digits will flash.
11. Press **MODE** repeatedly to increase the minutes by 1 or press **°C/°F** repeatedly to decrease the minutes by 1.
12. Setting of Date and Time is complete.



Maintenance and Cleaning

- Caregiver® has no user serviceable internal parts except battery replacement.
- Always replace Sensor Cap when not in use.
- Store in a dry location free of dust and away from direct sunlight.
- Replace sensor cap and use a soft dry cloth to clean the plastic housing or a cloth dampened with a solution of water and mild detergent.
Occasionally, 70% isopropanol solution may be used. Use liquid sparingly and wipe off after cleaning.
- Never submerge in liquid.
- The sensor cavity at the front of the thermometer is recessed to help prevent debris from collecting in this area. If debris is noticed, clean with a dry lint-free swab. Do not use liquid cleaners in the sensor cavity.




Consult Knowledge Base at website for more information on Re-calibration of Caregiver

Troubleshooting - Error Codes

Displayed Code	Meaning	Suggested Solution
	Low Battery	Replace batteries as soon as practical.
	Very Low Battery	Replace batteries prior to further use.
E-1 △	Ambient Temperature too LOW	Allow Caregiver® to warm to temperature above 50°F (10°C).
E-2 △	Ambient Temperature too HIGH	Allow Caregiver® to cool to temperature below 104°F (40°C).
E-4 △	Sensor Error or Ambient Temperature Unstable	Allow Caregiver® to equilibrate to the current room temperature for 20 minutes. Contact Thermomedics® Support if this error persists.
Lo	Body Mode Temperature is below 94°F (34.4°C)	Remove Sensor Lens cap. Allow patient to warm up in ambient room temperature above 50°F (10 °C).
Hi	Body Mode Temperature is above 108°F (42.2°C)	Repeat the temperature. If this condition persists, the ambient temperature of the thermometer may be outside the acceptable limits. Allow to cool for 20 minutes.
LOW Temps	Displayed Temperatures Appear to be Too Low	Remove Sensor Lens Cap. Allow thermometer and patient to adjust to room temperature for 20 minutes. Remove perspiration, oil and makeup from forehead. Also consult the knowledgebase at www.thermomedics.com



Specifications

Displayed Temperature Range	BODY Mode: 93.9°F to 108.0°F (34.4°C to 42.2°C) SURFACE Mode: 32°F to 140°F (0°C to 60°C) ROOM Mode: 50°F to 104°F (10°C to 40°C)
Storage Environmental Range	-4°F to 140°F (-20°C to +60°C) Pressure: 525 mmHg to 795 mmHg 15% - 95% Relative Humidity
Operating Environmental Range	50°F to 104°F (10°C to 40°C) 15% - 85% Relative Humidity (non-condensing)
Displayed Accuracy	Body: $\pm 0.4^\circ\text{F}$ for 96.8 to 102.2°F ($\pm 0.2^\circ\text{C}$ for 36.0 to 39.0°C); $\pm 0.5^\circ\text{F}$ (0.3°C) for temperature lower than 96.8°F (36.0°C) or higher than 102.2°F (39.0°C) Surface: $\pm 2^\circ\text{F}$ ($\pm 1^\circ\text{C}$) Room: $\pm 2^\circ\text{F}$ ($\pm 1^\circ\text{C}$)
Power	Two 1.5v "AA" Alkaline Batteries
Battery Life	> 10,000 Temperatures Typical
Response Time	Approx 1 second
Size	(L x W x H) 150 x 48.48 x 55.16mm
Batteries	3V  2XAA

Equipment Classifications per IEC 60601-1

Degree of Protection Against Electrical Shock	Type BF Applied Part
Mode of Operation	Continuous
Degree of Protection From Liquid Ingress	Protection Against Vertically Falling Water Drops IPX0
USA	Not For Use In The Presence OF Flammable Anesthetics

EMC Compliance

IEC 60601-1-2 Class B

Safety Compliance

















IEC 60601-1-6 ASTM E1965-1998 IEC/EN 60601-1 ISO 80601-2-56

ANSI/AAMI ES60601-1 CSA C22.2 No. 60601-1

1.) Sund-Levander, M., Forsberg, C. & Wahren, L. (2002). Normal oral, rectal and axillary body temperature in adult men and women; a systematic review.

Scandinavian Journal of Caring Science, 16(2), 122-128.

Symbol Information

	Follow instructions for use		Separate collection for electrical and electronic equipment (WEEE)
	Manufacturer		Storage temperature range
	Date of Manufacture YYYY-MM-DD		Storage humidity limitation
	Non-ionizing Electromagnetic Radiation		Keep dry
IPX0	Protection against vertically falling water drops		Fragile, handle with care
	Authorized representative in the European community		Mark of conformity to European medical device directive 93/42/EEC
	Caution		Type BF Applied Part
	Not made with natural rubber latex		Product contains no PVC (polyvinyl chloride) material
	Do not use if package is damaged		



Separate collection for electrical equipment

Notes:

Notes:

www.thermomedics.com

Warranty

For questions or warranty related service, please go to our web site at: **www.thermomedics.com/contact** and submit your question or email a technician directly at **technical-support@thermomedics.com**. You may also leave a message for technical service at 1-800-208-3009 ext 300.


Please register your Caregiver® Thermometer via our web site at: **www.thermomedics.com/register**


IMPORTANT: Prior to returning thermometer, contact Thermomedics® for return procedure.

Purchase Date _____ / _____ / _____

Serial Number: _____

Distributed by
Thermomedics, Inc. North America Service Center
18310 Calle La Serra
Rancho Santa Fe, CA 92091
Toll Free: 800-208-3009

 **TaiDoc Technology Corporation**
B1-7F, No.127 Wugong 2nd Rd.,
Wugu Dist., 24888 New Taipei City,
Taiwan

 **MedNet EC-REP GmbH**
Borkstraße 10,
48163 Münster, Germany



Copyright© 2021 Thermomedics, Inc. All Rights Reserved


TD-1241

 
0123

Caregiver IFU
L010-0121-01