



Forehead Thermometer Pro (TD-1241)

Owner's Manual



IMPORTANT SAFETY INSTRUCTIONS

READ THIS BEFORE USING

The following basic safety precautions should always be taken.

1. Close supervision is necessary when the thermometer is used on children or handicapped persons.
2. Use the thermometer only for the intended use described in this manual.
3. Do not use the thermometer if it is not working properly, or if it has been damaged.

KEEP THESE INSTRUCTIONS

TABLE OF CONTENTS

CAUTIONS AND WARNINGS	05
RESTRICTIONS OF USE	05
INTRODUCTION	06
HIGHLIGHTED FEATURES	07
PACKAGE CONTENTS	07
THERMOMETER PARTS	08
DISPLAY SCREEN	08
DISPLAY MODE	09
SETTING THE THERMOMETER	10
REPLACING THE BATTERIES	11
ABOUT NORMAL BODY TEMPERATURE & FEVER	12
USING THE DEVICE	14
As a Body Scan Thermometer	14
As a Surface Scan Thermometer	15
As a Room Scan Thermometer	16
RECALLING THE MEMORY	18
BLUETOOTH PAIRING	19
CARE & CLEANING	20
TROUBLESHOOTING	21
SPECIFICATIONS	22
SYMBOL INFORMATION	23

CAUTIONS AND WARNINGS

- ▶ As with any thermometer, proper technique is crucial to obtaining accurate temperature readings. **Please read this manual thoroughly and carefully before using.**
- ▶ Always operate the thermometer in an operating temperature range 10°C to 40°C (50°F to 104°F), and relative humidity less than 95%.
- ▶ Always store the thermometer in a cool and dry place -20°C to 60°C (-4°F to 140°F) and relative humidity less than 95%
- ▶ **Avoid direct sunlight.**
- ▶ **Avoid dropping** the thermometer; if it happens and you think the thermometer may be damaged, please contact GRx Diagnostics immediately.
- ▶ **Do not** touch the lens.
- ▶ **Do not** disassemble the thermometer.
- ▶ Basic safety precautions should always be observed, especially when the thermometer is used on or near children and disabled persons.
- ▶ This thermometer is not intended to substitute a consultation with your physician.
- ▶ The forehead scan temperature serves as a **reference only. It cannot be a judgment on fever.**

RESTRICTIONS OF USE

This thermometer is clinically proven to produce accurate temperature measurements. However, please be advised if you have the following situations: The accuracy cannot be ensured when the thermometer is not clean. Check that the probe is clean before taking a measurement.

INTRODUCTION

Thank you for choosing GRx Forehead Thermometer Pro. Please read this instruction manual first so you can use this thermometer safely and correctly. Please keep this instruction manual for future reference. This innovative medical device uses advanced infrared (IR) technology to measure temperature instantly and accurately on the forehead/surface/rooms.

Intended Use

GRx Forehead Thermometer Pro is intended for the intermittent measurement and monitoring of human body temperature from the forehead. The device is intended for use by people of all ages in the home.

How does it work

The thermometer measures the infrared heat generated by the surface of the skin over the vessel and its surrounding tissue. The thermometer then converts it into a temperature value.

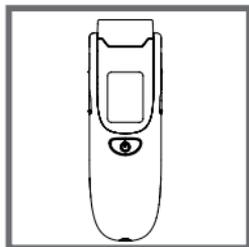
NOTE

The thermometer does not emit any infrared signal.

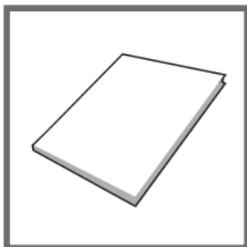
HIGHLIGHTED FEATURES

- ▶ Fast and accurate: meets the accuracy requirement specified in ASTM E1965-98 and the EC directive 93/42/EEC.
- ▶ Non-contact measurement that does not require probe cover, thereby saving cost of replacement.
- ▶ Automatically power off if left idle for 30 seconds.
- ▶ Memory function allows you to recall up to 30 previous results.
- ▶ Easy to read LCD with backlight in a dark environment.
- ▶ Able to measure temperature of other objects without contact, as well as room temperature.

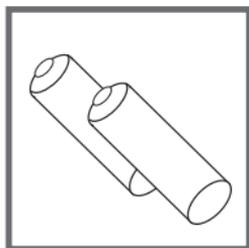
PACKAGE CONTENTS



GRx Forehead
Thermometer Pro

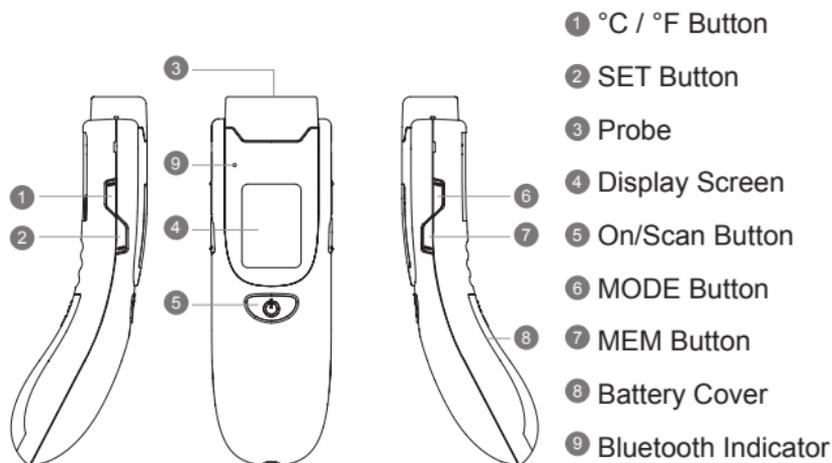


Owner's Manual, including
Warranty Card

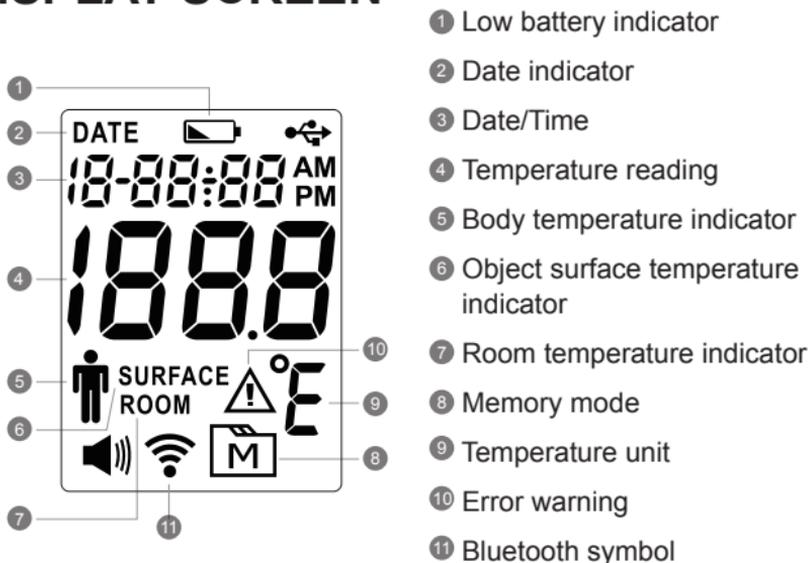


Two 1.5V AA batteries

THERMOMETER PARTS



DISPLAY SCREEN



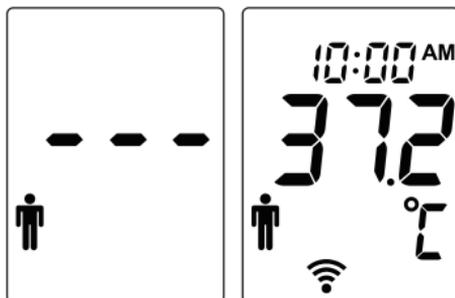
DISPLAY MODE

Three modes can be selected.

1. Body mode

This mode is used to measure the forehead temperature.

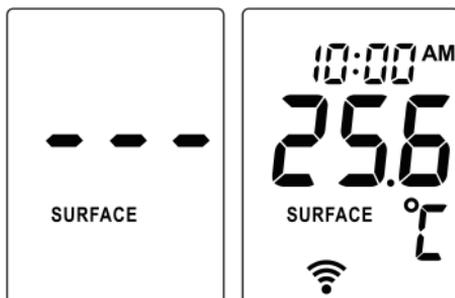
It also provides a clock.



2. Surface mode

This mode is used to measure the object surface temperature.

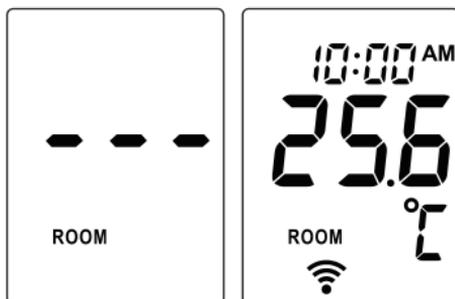
It also provides a clock.



3. Room mode

This mode is used to measure the room temperature.

It also provides a clock.



SETTING THE THERMOMETER

You will need to set the time for first-time use or after replacing the batteries.

Step 1

Press the  to turn on the thermometer first. Press  for 5 seconds to enter the setting mode.

Step 2 Set the date and time

- ▶ Press the Mode or °C / °F button to select the correct month.
- ▶ Press  to move onto the next step.
- ▶ Press the Mode or °C / °F button to select the correct month / day / year / hour / minute.



The Settings are all completed. The thermometer will automatically turn off.

NOTE

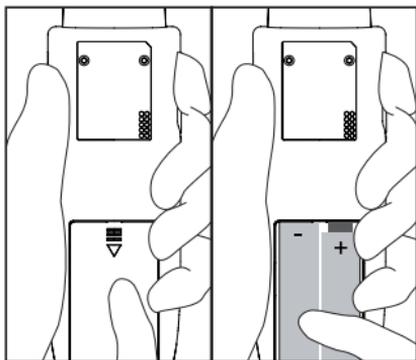
If the meter is left idle for 30 seconds during the setting mode, it will switch off automatically.

REPLACING THE BATTERIES

The thermometer comes with two 1.5 V AA alkaline batteries. The meter will display “” to alert you when the meter power is getting low. If “” and  appear both, please follow the steps below to replace new batteries immediately.

Step 1

Remove the battery cover according to arrow direction. (Figure 1)



(Figure 1)

(Figure 2)

Step 2

Remove the old batteries and replace with two new 1.5V AA size alkaline batteries. (Figure 2)

Step 3

Close the battery cover. If the batteries are inserted correctly, you will hear a “beep” afterwards.

NOTE

1. Although the thermometer works when “” appears, we still recommend that you change the batteries to obtain an accurate result.
2. Remove the batteries if stored for a long period of time.
3. The batteries should be kept out of children’s reach. If they are swallowed, promptly see a doctor for help.

ABOUT NORMAL BODY TEMPERATURE & FEVER

Body temperature can vary from one individual to the next. It also varies by location on the body and time of day. The below table shows the statistical normal ranges from different sites. Please keep in mind that temperatures measured from different sites, even at the same time, should not be directly compared. Fever indicates that the body temperature is higher than normal. This symptom may be caused by infection, overdressing or immunisation. Some people may not experience fever, even when they are ill. These include, but are not limited to, infants younger than 3 months old, individuals with compromised immune systems, those taking antibiotics, steroids or antipyretics (aspirin, ibuprofen, acetaminophen), and in the case of certain chronic illnesses. Please consult your physician if you feel ill, even if you do not have fever.

Table 1*¹ Body Site Normal Temperature Range

Oral	0.6°C (1°F) or more above or below 37°C (98.6°F)
Rectal/ear	0.3°C to 0.6°C (0.5°F to 1°F) higher than oral temperature
Axillary (armpit)	0.3°C to 0.6°C (0.5°F to 1°F) lower than oral temperature

*1. Body Temperature at WebMD;

website: <http://firstaid.webmd.com/body-temperature> retrieved at 2010 Jan 7.

SELECT THE TEMPERATURE UNIT

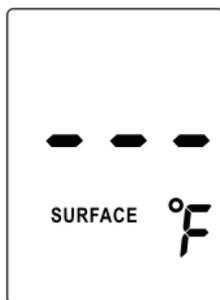
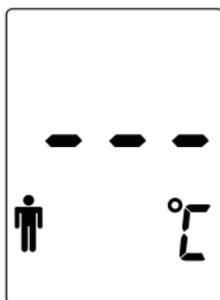
This meter provides two measurement units for indicating the body / surface / room temperature, °C or °F.

Step 1

Press the  to turn on the thermometer first.

Step 2

Press the °C / °F button to select your preferred temperature unit. Press  to begin measurement or keep the meter idle for 30 seconds so it automatically turns off.



USING THE DEVICE

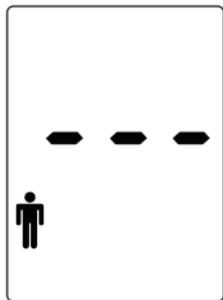
As a Body Measurement Thermometer

Step 1 Remove the front protective cap if present. Press  to turn on the thermometer.



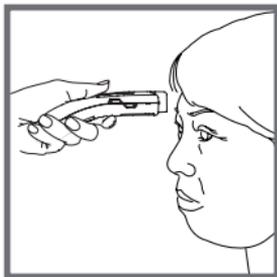
Step 2 Press the Mode button for 5 seconds to enter the display mode to select Body mode.

The Body temperature indicator “” flashes.



Step 3 Move the probe close to the forehead.

Press and hold . Make sure the probe is flat and close to the forehead, not at an angle. Perform a forehead measurement within a distance of 5 cm.



Step 4 Read the result.

Release the button and read the result. “” is shown, together with a temperature value and two short beeps.

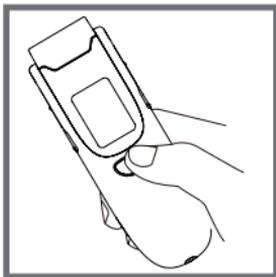


NOTE

- As the forehead measurement temperature is likely to be affected by sweat, oil and the surroundings, the reading should be taken as a reference only.
- If the probe is placed at an angle close to the forehead measurement, the reading will be affected by the surrounding temperature.
- The thermometer will automatically turn off if left idle for 30 seconds.

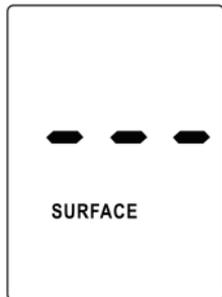
As a Surface Measurement Thermometer

Step 1 Remove the protective cap if present. Press  to turn on the thermometer.



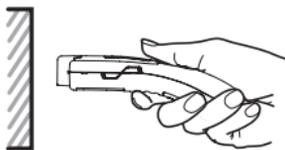
Step 2 Press the Mode button for 5 seconds to enter the display mode to select Body mode.

The Surface temperature indicator “ SURFACE ” flashes.



Step 3 Move the probe close to the object surface.

Press and hold . Make sure the probe is flat and close to the object surface, not at an angle. Perform an object measurement within a distance of 5 cm.



Step 4 Read the result.

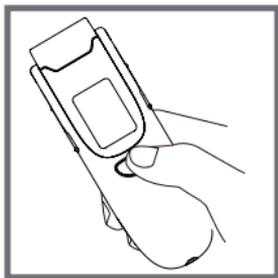
Release the button and read the result.

“SURFACE” is shown, together with a temperature value and two short beeps.



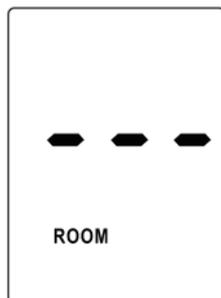
As a Room Measurement Thermometer

Step 1 Remove the protective cap if present. Press On/Scan button to turn on the thermometer.



Step 2 Press the Mode button for 5 seconds to enter the display mode to select Room mode.

The Room temperature indicator “ ROOM ” flashes.



Step 3 Press and hold the On/Scan button.

The built-in sensor inside the thermometer will capture the ambient room temperature automatically.

Step 4 Read the result.

Release the button and read the result. “ ROOM ” is shown, together with a temperature value and two short beeps.



RECALLING THE MEMORY

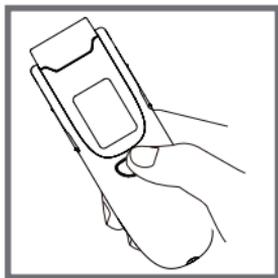
Your thermometer stores the 30 most recent readings

Step 1

Ensure the thermometer is OFF before recalling the memory.

Step 2

Press  to turn on the thermometer.



Step 3

Press the MEM button to enter the memory mode.

Each time you press the MEM button, a result will be displayed in the order of dates (latest result shown first), together with “” and number (from 1 to 30).



When the memory is full, the oldest result is deleted as the new one is added. When the last record is displayed, press the MEM button again to return the first record.



Step 4 Exit the memory.

Press the ON/SCAN button to return to the measurement mode, or keep the meter idle for 30 seconds in the memory mode; it will switch off automatically.

BLUETOOTH PAIRING

You can transmit data from the thermometer to your devices via Bluetooth. Please note that you must complete pairing between the thermometer and Bluetooth receiver before transmitting data. You can use GRx Forehead Thermometer Pro with the GRx HC APP. GRx HC APP is available on the App Store/Google Play for free download. Connect your mobile device to the internet to search and download the GRx HC APP and then install on your mobile device.

Pairing with your mobile device

1. Turn on the Bluetooth function on your mobile device.
2. With the thermometer off, press and hold the ON/SCAN button to turn Bluetooth on.
3. Follow the instruction of your GRx HC APP to pair the device. (Search to find the meter and then add it into app)
4. After successfully pairing the GRx HC APP with the device, the Bluetooth function of the thermometer should be on before transmitting data to your APP.



Support Mobile:

iOS or Android and Bluetooth 4.0



Bluetooth indicator on the meter

BLUETOOTH INDICATOR	STATUS
Flashing Blue	The Bluetooth function is on and waiting for connection.
Solid Blue	The Bluetooth connection is established.

NOTE

1. While the meter is in transmission mode, it is unable to perform a test.
2. Make sure your device supports Bluetooth Smart Technology, has Bluetooth actually turned on with the meter within the receiving range before transmitting the data. For iOS and Android devices, please find the GRx HC APP on the App Store and Google Play respectively.
3. The Bluetooth functionality is implemented in different ways by the various mobile device manufacturers; incompatibility issues between your mobile device and the meter may occur.

CARE & CLEANING

- ▶ The probe is not waterproof. Please wipe with a clean and dry cotton swab to clean the probe on the inside.
- ▶ The body of the thermometer is water-resistant. Never put the thermometer under a running tap or submerge in water. Use a soft and dry cloth to clean it. Do not use abrasive cleaners.
- ▶ Store the thermometer in a cool and dry location, free from dust and away from direct sunlight.

TROUBLESHOOTING

The table below shows problems you may encounter. All error messages below would be shown together with a backlight. Please follow “What to do” to resolve problems. If the problem still exists, please contact GRx Diagnostics for help.

Message	What it means	What to do
	Appears when environmental temperature is below system operation range.	Put the thermometer under operating temperature range of 10°C to 40°C (50°F to 104°F).
	Appears when environmental temperature is below system operation range.	Put the thermometer under operating temperature range of 10°C to 40°C (50°F to 104°F).
	Battery is low and “  ” appears on LCD.	Please replace batteries as soon as possible.
	Problem with the thermometer.	Please put the thermometer under operating temperature range of 10°C to 40°C (50°F to 104°F). If the problem persists, please contact GRx Diagnostics.
	Battery is very low.	Please replace batteries prior to further use.
	Body mode temperature is below 22°C (71.6°F)	Please follow the instructions in this manual to take a reading again.
	Body mode temperature is above 44°C (111.2°F)	

SPECIFICATIONS

Model no.	TD-1241
Dimensions	150mm(L) x 48.48mm(W) x 55.16mm(H)
Weight	76.5 g (without 2 x 1.5V AA batteries)
Battery	2 x 1.5 V AA alkaline batteries
Displayed temperature range	forehead: 22°C to 44°C (71.6°F to 111.2°F) surface mode: 0 to 100°C (32°F to 212°F) room mode: 10°C to 40°C (50°F to 104°F)
Display resolution	0.1°C / 0.1°F
Accuracy	▶ ±0.2°C (±0.4°F) for the range of 36.0°C to 39.0°C (96.8°F to 102.2°F) ▶ ±0.3°C (±0.5°F) for less than 36.0°C (96.8°F) and greater than 39.0°C (102.2°F)
Temperature unit	Either °C or °F
Operating temperature range	10°C to 40°C (50°F to 104°F)
Operating humidity	95% RH or less
Storage temperature range	-20°C to 60°C (-4°F to 140°F)
Storage humidity	95% RH or less
Memory capacity	30 measurements
External output	Bluetooth
Expected service life	3 years

SYMBOL INFORMATION

Symbol	Referent
	Consult instructions for use
	Manufacturer
SN	Serial number
	Caution, consult accompanying documents
	Type BF Equipment
	Authorised representative in the European Community
	Collection for electrical and electronic equipment
	Temperature limitation
	Humidity limitation
CE ₀₁₂₃	CE mark
IP22	Ingress protecting rating

REFERENCE STANDARDS

Device Standard:

Device Corresponds to the requirements of the standard for infrared thermometers. ASTM E1965-98, EN ISO 80601-2-56, EN 60601-1, EN 60601-1-2, EN 60601-1-6

Electromagnetic Compatibility:

Device fulfills the stipulations of the standard EN 60601-1-2.



The stipulations of EU-Directive 93/42/EEC for Medical Devices Class IIa have been fulfilled.

Please cut off this 'Dealer's portion' of the Warranty Registration Card, insert it in an envelope and post to:

GRx Diagnostics
4 Wintonlea, Monument Way West,
Woking, Surrey, GU21 5EN, UK

TERMS & CONDITIONS OF WARRANTY



1. GRx Diagnostics warrants this product to be free of defects in workmanship and materials within the said warranty period on the Warranty Certificate.
2. During the warranty period if this product is found to be defective, you may send it with the Warranty Certificate to our office for warranty service. GRx Diagnostics will then repair or replace defective parts, or exchange the whole product as GRx Diagnostics may choose, with no additional charge to the original owner. After such repair, replacement or exchange, the product will be warranted for the remaining time of the warranty period.
3. This warranty is valid only if the Warranty Certificate and Warranty Registration Card are duly completed with date of obtaining product, serial number and if the Warranty Registration Card is sent to our office (or you register on our website www.grxdiagnostics.co.uk) no later than 6 months from the date obtained.
4. This warranty is void if this product has been repaired or serviced by an unauthorised person. This warranty does not cover defects caused by misuse, abuse, accident, tampering, lack of reasonable care, fire or any other acts beyond human control.
5. Except as stated in the above paragraphs, GRx Diagnostics disclaim all other warranties, including those of merchantability of fitness for a particular purpose with respect to the use of this product. GRx Diagnostics shall not be liable for any direct, consequential or incidental damages arising out of the use or inability to use this product.

[Dealer's Portion]



WARRANTY REGISTRATION CARD

Product Name:

Owner's Name:

Address:

.....

Tel No: (M) (H) (W)

Email:

Date of Birth: Gender: M F

Date obtained: / / Serial No:

Day

Month

Year

GP Surgery name and Address:

*IMPORTANT: To qualify for the warranty, please fill in this card and mail to us within 6 months from date product obtained.

[Owner's Portion]

YEAR WARRANTY



WARRANTY CERTIFICATE

Product Name:

Owner's Name:

Address:

.....

Tel No: (M) (H) (W)

Email:

Date of Birth: Gender: M F

Date obtained: / / Serial No:

Day

Month

Year

GP Surgery name and Address:

.....

*NOTE: Please produce this card for warranty service.

Distributed by GRx Diagnostics

4 Wintonlea, Monument Way West,

Woking, Surrey, GU21 5EN, UK

Website: www.grxdiagnostics.co.uk

Customer careline: 01483 755133



TaiDoc Technology Corporation

B1-7F, No. 127, Wugong 2nd Rd.,

Wugu Dist., 24888 New Taipei City, Taiwan

www.taidoc.com



MedNet GmbH

Borkstraße 10, 48163 Münster - Germany

