

# Thermometer



#### READ ALL INSTRUCTIONS BEFORE USE

#### 1. Signs and symbols

$\triangle$	WARNING Warning notice indicating a risk of injury or damage to health.	
$\triangle$	IMPORTANT Safety note indicating possible damage to the unit/accessory.	
Note Note on important information		
	Observe the instructions for use	
፟	Application part, type BF	
X	Disposal in accordance with the Waste Electrical and Electronic Equipment EC Directive – WEEE	
The CE labelling certifies that the production complies with the essential requirements Directive 93/42/EEC on medical productions.		
Storage	Permissible storage temperature and humidity	

Permissible operating temperature and humidity Ø Manufacturer IP 22, protection against harmful ingress o water and dust

#### 2. Intended use

The ear thermometer is intended for measuring the body tem-perature in the ear. Do not use the ear thermometer for meas-urements in other parts of the body. You can also use the ear thermometer to measure room and

You can also use the ear thermometer to measure room and object temperatures.

The ear thermometer has been carefully developed for precise and rapid temperature measurements in the ear. It is a non-invasive ear thermometer with an infra-red detector to determine the body temperature in the auditory canal of adults and and children aged over 6 months.

Use the device for the intended purpose only and in the manner specified in these instructions for use. Any form of improper use can be dangerous. The manufacturer is not liable for damage resulting from improper or careless use.

The quality of the device has been verified and conforms to the requirements of Council Directive 93/42/EEC (Medical Devices Directive) Annex, Lessential requirements, and the correspond-

Directive) Annex I, Essential requirements, and the correspond-ing harmonised standards. ISO 80601-2-56:2009 Clinical ther-

Read these instructions for use carefully

and keep them for later use, be sure to make them accessible to other users and observe the information they con-

Suitable from 6 months+ to adult

# Table of contents I. Signs and symbols 2. Intended use 3. Notes 4. Unit description 5. Initial use 6. Settings 6. Setting the time/date 6.2 Setting the temperature unit ("C or "F). 7. Measuring Measuring 7.1 Measuring body temperature 7.2 Measuring object temperature 7.3 Displaying room temperature 7.4 Displaying stored measuremer 8. Replacing the battery 9. Cleaning and storage 11. What if there are error messages? ..

Included in delivery
Check that the delivery
Check that the delivery has not been tampered with and make
sure that all components are present. Before use, ensure that
there is no visible damage to the device or accessories and
that all packaging material has been removed. If you have any
doubts, do not use the device and contact Boots Customer
Services or your local Boots Store.

The Boots Ear Thermometer provides an accurate temperatur reading in seconds. The thermometer is hygienic and easy it use, and works by using an infine-red detector to determine body temperature within the ear canal. It can also be used to mean the temperature of a room, or other objects such as food, bath water or bottled milk.

Boots Ear Thermometer Protective case with stand 10 Disposable caps 2 1.5V AAA (LR03) batteries Instruction booklet

Subsequent purchase articles
Protective cap set replacement available: 40 protective caps item no. 80-53-944.

mometers - Part 5: Performance of infra-red ear thermometers (with maximum device). Please note that portable and mobile HF communication systems

may interfere with this device. More details can be requested from the stated Customer Services address or found at the end of the instructions for use.

## Safety notes

#### /\ullet warning

- ↑ WARNING

   To measure temperature, insert the sensor tip of the ear thermometer carefully into the ear.

   Use of the ear thermometer on different persons can be inappropriate in the event of cortain acute infectious diseases because of the possible spread of germs despite cleaning and disinfection. If you have any doubts, please consult your doctor.

   The body temperature measured in the ear may differ from other measurements taken in the mouth, rectum or amplits. Any comparison of these values is therefore futile. Measure temperature regularly to understand the normal ear temperature and then use these measurements as a basis for comparison when taking measurements in the event of a suspected high temperature.

   This ear thermometer is intended for measuring the temperature in the act. Do not use this ear thermometer for measurements in other parts of the body.

- . Replace the protective cap after each use to ensure an accurate measurement and prevent cross-contamination.
  The ear thermometer may only be used with Boots Ear Ther-
- mometer Replacement Caps; other protective caps may result in faulty measurements. If you have run out of protective
- caps, contact the manufacturer or retailer for replacements.

  Choking Hazard! Small children may swallow and choke on replacement caps. Store protective caps out of reach of small children.
- Temperature is not the only indication of illness. If you are concerned regarding you/your child's health, whether or not you/they have a high temperature, seek medical advice.

#### Notes on handling batteries

#### MARNING

- If your skin or eyes come into contact with battery fluid, rinse
- Thyou said to speech the affected areas with water and seek medical assistance.
   A Choking hazard! Small children may swallow and choke on batteries. Store the batteries out of the reach of small
- Observe the plus (+) and minus (-) polarity signs.

- Observe the plus (-) and minus (-) polarity signs. Seak medical advice if battery has been swallowed.

  If a battery has leaked, put on protective gloves and clean the battery compartment with a dry oldrh.

  Protect batteries from excessive heat.

  A Risk of explosion! Never throw batteries into a fire.

  Do not charge or short-circuit batteries.

  If the device is not to be used for a relatively long period, take the batteries out of the battery compartment.

## Use identical or equivalent battery types only,

- Always replace all batteries at the same time.
   Do not use rechargeable batteries.
   Do not disassemble, split or crush the batteries.

## / IMPORTANT

- ✓ IMPORTANT
   Do not subject the device to mechanical impacts.
   Do not expose the device to direct sunlight.
   Do not expose the device to liquids. The device is not waterproof. Avoid all direct contact with water or other liquids.
   Have the device repaired by authorised service centres only, otherwise its warranty is invalidated.
   Portable and mobile His communication systems may interfere with this device. More details can be requested from the stated Customer Services address or found at the end of the instructions for use.

# 4. Unit description Measuring sensor START button ON/OFF button ()

LCD display 1188:88 MMEN 188.8

Room temperature mode Displays room tempera time/date
 AM/PM display (time) Battery symbo

5 Memory mode 6 No fever symbol 7 Temperature unit (\*C or \*F) 8 Fever symbol 9 Temperature display

The batteries are already inserted in new devices. Before first use, remove the protruding plastic insulating strip from the battery compartment. The ear thermometer will then switch on automatically.



#### 6. Settings

#### 6.1 Setting the time/date

Before beginning to take measurements, we recommend that you set the current time and date. This will allow you to organise the saved measurements more easily later.

Press and hold the ON/OFF but- ton () on the switched-off de- vice for three seconds. "24 H" appears on the display.	24 H	
Use the START button to select the hour format (12h or 24h) and confirm using the ON/OFF but- ton (1)	15.11	54.8

5. Initial use

vice for three seconds. "24 H" appears on the display.		П
2. Use the START button to select the hour format (12h or 24h) and confirm using the ON/OFF but- ton ().	15.11	54 H

# The hour setting appears on the display. Use the START button to select the current hour and con-firm using the ON/OFF button ⊕. The minute setting appears on the display. Use the START but-ton to select the current minute and confirm using the ON/OFF button ().

16:00

6:00

The year setting appears on the display. Use the START button to select the current year and confirm using the ON/OFF button ().

20 (S)

The day flashes on the display Use the START button to select the current day and confirm us-ing the ON/OFF button 🕒

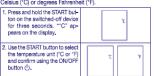
(ña-na

The month flashes on the display. Use the START button to select the current month and confirm using the ON/OFF button (b. The device then switches itself off automatically. The date and time are now saved

08-08)

## 6.2 Setting the temperature unit (°C or °F)

You can set the device to display the temperature in degrees Celsius (°C) or degrees Fahrenheit (°F).



## 7. Measuring

#### (i) Note

Check before each use that the ear thermometer lens tip is intact. If it is damaged, contact your retailer or the service address. The ear thermometer needs to have been in the room in which the measurement is taken for at least 30 minutes before use to ensure an accurate reading.

#### 7.1 Measuring body temperature

#### MARNING ...

12. YARDHING

Some people produce different readings in their left and right ear. In order to record temperature changes, always measure a person's temperature in the same ear.

- The ear thermometer may be used by children only under adult supervision. Measurement is usually possible over the age of 6 months. In infants under 6 months, the ear canal is still very narrow so the temperature of the eardrum often cannot be recorded and the result displayed is often too low. The measurement must not be taken in an ear affected by inflammatory diseases (e.g., discharging pus or secretion), after possible ear injuries (e.g., eardrum damage) or in the healing period after operative procedures. In all of these cases, please consult your doctor.

  Use of the ear thermometer on different persons can be inappropriate in the vent of certain acute infectious diseases because of the possible spread of germs despite cleaning.

- appropriate in the event of certain acute infectious diseases because of the possible spread of germs despite cleaning and disinfection. If you have any doubts, please consult your doctor,

   This ear thermometer can only be used with the protective cap in place.

   The following circumstances may influence the temperature in the ear; if you have been lying on the ear for an extended period, the ears are covered, the ears are exposed to excessive heat/cod, or after swimming or bathing. In the event of one of these circumstances, wait 20 minutes before performing the measurement.
- forming the measurement.

  As ear wax can affect the measurement, you should clean the ear before measuring if necessary,

Place a clean protective cap on to the sensor tip of the ear thermometer. . Press the ON/OFF button () to switc 16:00 As the ear canal is slightly curved, you have to pull the ear slightly up and backwards before inserting the sensor tip. This is important so that the tip of the protective cap can be pointed directly at the eardrum. 12

Insert the sensor tip with the protec-tive cap carefully into the ear canal and press the START button to begin the

After approx. one second, a long acoustic signal sounds and the meas urement is shown in the display.

15:00 3 ©

36.9

 Press the ON/OFF button (1) to switch off the ear thermometer. (i) Note If none of the buttons are pressed for one minute after the measurement, the ear thermometer automatically switches

# itself off again.

ever indicator n addition to the temperature, the fever or no fever symbols

In addition to the temperature, the fever or no fever symbols also appear in the display: The No Fever symbol ⊕ indicates that the body temperature is within normal range; this is accompanied by a short single beep for temperatures below 37.5°C and two short beeps for temperatures between 37.5 and 37.9°C.

The Fever symbol ( $\odot$ ) indicates a measurement equal to or higher than 38°C (100.4°F); this is accompanied by a short, long and three shorts beeps, one after the other.

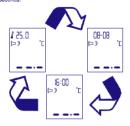
Temperature	Smiley Symbol	Sound
<37.5°C (99.5°F)	0	1 short beep
37.5-37.9°C (99.5-100.2°F) indicates a "raised temperature"	0	1 short beep -> 2 short beeps
≥38°C (100.4°F)	()	1 short beep -> 1 long beep -> 3 short beeps

#### 7.2 Measuring object temperature

<ol> <li>Remove the protective cap from the sensor tip of the ear thermometer (if it is on).</li> </ol>	
<ol> <li>Press the ON/OFF button the owitch on the ear thermometer. Three acoustic signals sound and the display switches on.</li> </ol>	16:00 2 °C
3. Ensure that you are in object temperature mode ( ). To switch between body temperature and object temperature mode, briefly press and hold the ON/OFF button ( ) and the START button at the same time.	15:00 ⊕ "C
Hold the sensor tip of the ear thermometer 1 to 2 cm from the desired measuring point and press the START button.	
<ol> <li>After one second, a long acoustic sig- nal sounds and the measurement is shown in the display. Briefly press the ON/OFF button () to switch off the ear thermometer.</li> </ol>	2 <b>5</b> .3

#### 7.3 Displaying room temperature

When you switch on the ear thermometer, the room temperature, the date and time appear alternately on the display every 3 seconds.



7.4 Displaying stored measurements

The ear thermometer automatically stores the last 10 temperature measurements of body and object temperature respectively (incl. date and time). To recall the stored measurements,

Press the ON/OFF button ( ) to switch on the ear thermometer.	00:31 2' €<
<ol> <li>Press and hold the ON/OFF but- ton () for 3 seconds. An M and the last stored measurement ap- pear on the display.</li> </ol>	36.9
3. To switch between the individual stored measurements, press the ON/OFF button ♂. With each subsequent pressing of the ON/OFF button ♂, the memory space number is displayed first followed by the measurement.	Þ) 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<ol> <li>Press START to take a new meas ON/OFF button () for 3 second</li> </ol>	

### 8. Replacing the battery

Follow equipment instructions carefully and always use the recommended type of batteries. Do not allow children to fit batteries without adult supervision. Before replacing the battery, ensure that the device is switched

ff.	
Replace the batteries as soon as the battery symbol ( ) appears on the display.	0
<ol> <li>Silide open the battery compartment and remove the used batteries from the battery compartment.</li> </ol>	

. Insert two new 1.5 V AAA batteries; do not mix old and new batteries of different types or brands. Make sure that the batteries are inserted the right way round, observing the + and - signs on the battery and product. Close the battery compartment, ensuring it is securely replaced.



### 9. Cleaning and storage



To clean the entire device, use a soft cloth slightly moistened with a mild soapy solution. 
Do not use any harsh cleaning products. 
If prioning device is intended, you should remove the batteries. The device must not be stored or used at an excessively high or low temperature or humidity (see technical data), in sunlight, in association with an electrical current or in dusty locations, otherwise inaccuracies can occur.

### 10. Disposal

Used batteries should not be disposed of in normal household waste. You are legally required to dispose of the batteries. Dispose of them via your local Boots store or your local recy-

Cling point.

Note: The codes below are printed on batteries containing harmful substances: Pb = Battery contains lead, Cd = Battery contains cadmium, Hg = Battery

peacl, or = battery contains examinum, ng = battery |
Pe od Hg
Pe

conjugation retains for waste described and electronic equipment.

Contact our free helpline 0800 915 9023 (UK) or 1 890 708 091 (ROI) or see www.recycle-more.co.uk or www.recyclemore.ie for further details.

The Wheelie Bin symbol marked on products, batteries or their packaging is there to remind you.

### 11. What if there are error messages?

Error message	Cause	Solution
ERI	The ear thermometer is not yet ready for measurement.	Take measurements only once body (**) or object temperature mode (***) appears on the display.
ER2	The measured ambi- ent temperature is not in the range from 10°C -40°C (50 - 104°F).  The measured ambi- ent temperature is not in a room with an amb temperature between a and 40°C (50°F and 11 for at least 30 minutes	
ER3	The ear thermometer is not placed in the ear correctly.	Please observe the notes in the chapter "Measuring". Perform the measurement again.
ERY	The ear thermometer registered a large change in the ambient temperature.	Place the ear thermometer in a room with an ambient temperature between 10°C and 40°C (50°F and 104°F) for at least 30 minutes.
ER5	The ear thermom- eter is not working properly.	Replace the batteries and try again. If the fault occurs again, contact Customer Services.
ER6	You are in the "Measur- ing object temperature" mode and the protec- tive cap is still on.	The protective cap must be removed to measure object temperatures.

Error message	Cause	Solution
ш	In-ear measurement: the measured tem- perature is over 43 °C (109.4 °F).	Ensure that the device and the protective cap are fully functioning. Perform the measurement again.
H,	Object measurement: the measured temper- ature is over 100 °C (212 °F).	
Lo	In-ear measurement: the measured temper- ature is below 28 °C (82.4 °F).	Ensure that the device and the protective cap are fully functioning. Perform the measurement again.
LO	Object measurement: the measured temperature is below -20°C (-4°F).	
	The batteries are empty.	Remove the two empty batteries and insert two new 1.5 V AAA batteries in to the ear thermometer.

#### 12. Technical data

Type	F1 36
Temperature range	In ear: 28.0 – 43.0 °C (82.4 – 109.4 °F)     Object temperature: -20–100 °C (-4–212 °F)     Room temperature: 0–50 °C (32–122 °F)
Laboratory measurement accuracy	In ear: ±0.2°C (0.4°F) in measurement range of 35.5~42.0°C (95.9~10.8°F); ±0.3°C (0.5°F) in measurement range of ≤35.5°C (95.5°F) and ≥42.0°C (107.8°F)     Object temperature: ±4% or ±2°C (4°F)     Room temperature: ±2°C (±4°F)
Clinical reproducibility	0.11 °C (0.2 °F)
Duration of measurement	Approx. one second
Operating temperature range	10-40 °C (50-104 °F), humidity 15-85% (non-condensing)
Storage temperature range	-25-55°C (-13-131°F), humidity 15-95% (non-condensing)
Memory	10 memory spaces
Display resolution	0.1 °C or 0.1 °F
Battery	DC 3 V 2 x AAA (LR03) batteries
Dimensions	155 x 38 x 47 mm
Weight	Approx. 63 g (without batteries)
Protective caps	10

Automatic switch-off	60 seconds	
Battery operating life	3,000 measurements in succession or one year with one to two measurements per day, including standby mode.	
Safety classification	Connected medical device of type BF	
IP protection class	IP 22, protection against harmful ingress of water and dust	

The serial number is located on the device or in the battery compartment.

#### 13. Warranty

13. Warranty
In addition to your statutory rights, Boots UK Limited agrees
that if any defect in materials or workmanship appears in the
product within three years, after the original date of consumer purchase, It will repair or, at its option, replace the product
thee of charge. This applies only if the product has been used
for domestic purposes and has not been didinged through
misuse, accident or neglect and has not been modified or repaired by anyone other than Boots or its authorised agents.
It a defect appears, please check that the article is being used
in accordance with the instructions. If so, return it with this
warranty and proof of purchase to your nearest Boots store
which stocks this article or similar articles, as soon as possible.
Boots UK Limited reserves the right to modify this product
without notice.

The Boots Ear Thermometer model number is FT 58. 13

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Art.no.: 795.83

Text prepared 12/17

# **C**€<sub>0483</sub>

## **ELECTROMAGNETIC COMPATIBILITY INFORMATION**

## Table 1

	Guidance and declaration of manufacturer-electromagnetic emissions			
The FTS8 Ear Thermometer is intended for use in the electromagnetic environment specified below. The customer or the user of the FTS8 Ear Thermometer should assure that it is used in such an environment.				
	Emissions test	Compliance	Electromagnetic environment - guidance	
	RF emissions CISPR 11	Group 1	The FTS8 Ear Thermometer uses RF energy only for its internal function. Therefore, its emissions are very low and are not likely to cause any interference in nearby electronic equipment.	
	RF emissions CISPR 11	Class B	The FT58 Ear Thermometer is suitable for use in all establishments, including don	
	Harmonic emissions IEC 61000-3-2	Not applicable	establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.	
	Voltage fluctuations/flicker emissions	Not applicable	network that supplies buildings used for domestic purposes.	

15

nanufacturer-electromagnetic immunity	,	
IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the rela- tive humidity should be at least 30 %.
±2 kV for power supply lines ±1 kV for input/output lines	Not applicable	
±1kV differential mode ±2kV common mode	Not applicable	
<5% U <sub>T</sub> (>95% dip in U <sub>T</sub> for 0.5 cycle 40% U <sub>T</sub> (60% dip in U <sub>T</sub> ) for 5 cycles 70% U <sub>T</sub> (30% dip in U <sub>T</sub> ) for 25 cycles <5% U <sub>T</sub> (>95% dip in U <sub>T</sub> ) for 5 sec	Not applicable	
3 A/m	3 A/m	Power frequency magnetic fields should be at levels charactertic of a typical location in a typical com- mercial or hospital environment.
	Intended for use in the ejectromagnetic of TSE Ear Thermometer should assure IEC 00001 text level 18 V contact 28 V of 18 V contact 28 V of 18 V for inport supply lines 28 V V for inport output lines 28 V V V V V V V V V V V V V V V V V V V	Intended for use in the electromagnetic environment specifie FTSE Ear Thermometer should assure that it is used in use IEC 60601 text level  6 40 contact  2 8 W at  8 4W contact  2 8 W at  8 4W contact  2 8 W at  8 4W contact  3 8 W at  8 4W contact  3 8 W at  8 4W contact  8 6 W at  8 4W

Table 3
Guidance and declaration of manufacturer-electromagnetic immunity
The FTSE fair Thermometer is intended for use in the electromagnetic environment specified below.
The FTSE fair Thermometer for the result of the TSE and the same of the TSE of the Thermometer foods assure that it is used in such an envir

The customer or the user of the FT58 Ear Thermometer should assure that it is used in such an environment.				
IMMUNITY test	IEC 60601 test level	Compliance level	Electromagnetic environment – guidance	
			Portable and mobile RF communications equipment should be used no closer to any part of the FTS8 Ear Thermometer, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.	
			Recommended separation distance:	
Conducted RF IEC 61000-4-6	3Vrms 150 kHz to 80 MHz	Not appli- cable	$d=[rac{3.5}{E_1}]\sqrt{P}$ 80 MHz to 800 MHz	
IEC 61000- 4-3 80 M	3V/m 80 MHz to	3V/m	$d = [\frac{7}{E_1}]\sqrt{P}$ 800 MHz to 2.5 GHz	
	2.5 GHz		Where $P$ is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and $d$ is the recommended separation distance in meters (m),	
			Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey,* should be less than the compliance level in each frequency range.	

be less than the compliance level in each frequency range. It is a series of the compliance level in each frequency range. It is represented by the compliance level in each frequency range applies.

NOTE 1. These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

Field strengths from fixed transmitters, such as base stations from radio (cellularizordess) telephones and fand mobile radios, amaiteur radio. AM and FM radio brackcets and TV broadcast can not be predicted theoretic call with securacy. To assess the electromagnetic environment FMTs BML-function Thermometers and the securacy of the complete of the com

Table 4

Recommended separation distances between portable and mobile RF communications equipment and the FTSE Ear Thermometer.

The FTSE Ear Thermometer is intended for use in an electromagnetic environment in which radiated therefore disturbances are controlled. The customer or the user of the FTSE Ear Thermometer can the prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the FTSE Ear Thermometer as recommended below, according to the maximum output power of the communications equipment.

	Separation distance according to frequency of transmitter (m)		
Rated maximum output power of transmitter (W)	80 MHz to 800 MHz $\alpha = \left[\frac{3.5}{E_1}\right] \sqrt{P}$	800 MHz to 2.5 GHz $d = \left[\frac{7}{E_1}\right] \sqrt{P}$	
0.01	0.12	0.23	
0.1	0.38	0.73	
1	1.2	2.3	
10	3.8	7.3	
100	12	23	

100

12

23

For transmitters state at a maximum output power not listed above, the recommended separation distance of in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter and soon with the separation distance for the higher frequency range applies.

NOTE 1 At 80 MHz; and 800 MHz; the separation distance for the higher frequency range applies.

NOTE 2 The separation of the separation distance for the higher frequency range applies, objects and people.

18