beurer FT 16 express

ENGLISH

Read the instructions for use carefully and keep them for later use. Make them accessible to other users and note the information they contain.

INCLUDED IN DELIVERY

Check that the exterior of the cardboard delivery packaging is intact and make sure that all contents 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 your retailer or the specified Customer Service address.

• Thermometer • Protective cap • Instructions for use • 1 x 1.5 V LR 41 battery

SIGNS AND SYMBOLS

The following symbols are used on the device, in these instructions for use, on the packaging and on the type plate for the device:

⚠ WARNING

Indicates a potentially impending danger. If it is not avoided, there is a risk of death or serious injury.

⚠ CAUTION

Indicates a potentially imminent hazard. If it is not avoided, slight or minor injuries may result.

NOTICE

Indicates a potentially harmful situation. If it is not avoided, the device or something in its vicinity may be damaged.

	Observe the instructions Read the instructions before starting work and/or operating devices or machines
	The electronic device must not be disposed of with household waste
	Batteries must not be disposed of with household waste
	Coin battery
	Manufacturer
	Date of manufacture
CE	**CE labelling** This product satisfies the requirements of the applicable European and national directives.
B A	Marking to identify the packaging material. A = Material code, B = Material number: 1-7 = Plastics, 20-22 = Paper and cardboard
RECYCLE	Separate the product and packaging elements and dispose of them in accordance with local regulations.
IP27	Protected against solid foreign objects 12.5 mm in diameter and larger, and against the effects of temporary immersion in water
⎓	Direct current
UDI	Unique device identifier (UDI) Identifier for unique product identification
REF	Item number
SN	Serial number
MD	Medical device
#	Type number
	Type BF applied part
	Temperature limit
	Humidity limitation
	Importer
	Protect from sunlight and heat
CH REP	Swiss authorised representative
	Manufacturer in accordance with the Packaging Regulation (PPWR)

INTENDED PURPOSE

Intended use

The thermometer is intended exclusively for the orally, rectally or axillary measurement of human body. The thermometer is only intended for private use in a domestic environment and not for commercial use.

Intended users

The thermometer is intended for use in the home healthcare environment, not in professional healthcare facilities. The clinical thermometer can be used on newborns weighing 2.5 kg and above, as well as on infants, toddlers and children under supervision; it can be used for self-treatment by anyone over 12 years of age.

Clinical benefits

The recorded measurements can support in diagnoses and treatments.

Indication

An elevated body temperature is suspected. The user can quickly and easily measure the human body temperature in the anus, oral cavity or armpit with the thermometer and thus determine whether the person concerned has a fever.

Contraindication

- The use of the thermometer on different persons may be inappropriate for certain acute, infectious diseases due to the possible spread of germs, despite the cleaning and wipe disinfection performed. In individual cases, ask your attending physician.
- Persons with limited mental, sensory or intellectual abilities should be supervised by a person responsible for their safety and should receive instructions from this person on how to use the device.

WARNINGS AND SAFETY NOTES

General notes

⚠ WARNING

- Keep packaging material away from children. There is a risk of suffocation.
- Keep the device away from children, animals, and vermin.
- The measurements you take are for your information only – they are not a substitute for a medical examination! Discuss your measured values with your doctor and never make your own medical decisions based on them (e.g. regarding medicine doses).
- If you obtain unusual temperature results, please contact your GP straight away.
- Do not modify the device.

⚠ CAUTION

- If the device has been stored at temperatures below 5 °C or above 40 °C, allow it to acclimatise at an ambient temperature of 5 °C–40 °C for approximately 15 minutes before use.
- Protect the device from impacts, moisture, dirt, severe temperature fluctuations, and direct sunlight.
- Do not bite the thermometer (measuring tip). This can cause damage and injury!
- Check the thermometer for signs of damage or wear before each use. If the thermometer is damaged or worn, it must no longer be used.
- Do not bend the tip more than 90°!

NOTICE

- The thermometer is for the measurement of human body temperature only.
- The thermometer is only intended for the measuring points on the human body that are stated in the instructions for use.
- The minimum duration of measurement until the acoustic signal must always be observed.
- This thermometer features a flexible measuring tip and therefore provides more comfort and safety during measurement, in particular for young children, sleeping people, or people with a reduced level of consciousness.
- The thermometer conducts a self-test when you switch it on. There is no need to check the measurement accuracy.

Notes on handling batteries

⚠ WARNING

- **Risk of explosion! Risk of fire!** Failure to comply with the following points can result in personal injury or cause overheating, leakage, venting, breakage, explosion, or fire with respect to the battery.
- This device contains non-rechargeable batteries which must not be charged.
- Do not throw batteries into a fire.
- Never charge, forcibly discharge, heat, disassemble, open, crush, deform, encapsulate, or modify batteries.
- Never short-circuit batteries or battery compartment contacts.
- Protect the batteries from direct sunlight, rain, heat, and water.
- Exposure of batteries to an environment with extremely high temperatures or an extremely low air pressure may result in explosion or leakage of flammable liquids and gases.
- Dispose of defective and discharged batteries immediately and properly (see chapter on disposal).
- Do not use modified or damaged batteries.
- Always select the correct battery type.
- Always insert the batteries correctly, taking into account the polarity (+ / –).
- If a battery has leaked, put on protective gloves and clean the battery compartment with a dry cloth.
- If fluid from a battery comes into contact with your skin or eyes, wash the affected areas with water and seek medical assistance.
- **Choking hazard!** Keep batteries out of the reach of children. Seek medical attention immediately if swallowed. Swallowing them may cause burns, severe internal injuries, and death.
- Never allow children to replace batteries without adult supervision.

⚠ CAUTION

- Store batteries in a well-ventilated, dry, and cool place in a non-conductive container in which the batteries cannot be short-circuited to each other or by other metal objects.
- Keep batteries clean and dry.
- Keep batteries away from water.
- If the device is not going to be used for a long period of time, remove the batteries from the battery compartment.

NOTICE

- Do not use rechargeable batteries.

Notes on electromagnetic compatibility

- The device is suitable for use in all environments listed in these instructions for use, including domestic environments.
- The device may not be fully usable in the presence of electromagnetic interference. This could result in issues such as error messages or the failure of the display/device.
- Avoid using this device directly next to other devices or stacked on top of other devices, as this could lead to faulty operation. If, however, it is necessary to use the device in the manner outlined above, this device as well as the other devices must be monitored to ensure they are working properly.
- The use of accessories other than those specified or provided by the manufacturer of this device can lead to an increase in electromagnetic emissions or a decrease in the device's resistance to electromagnetic interference; this can result in faulty operation.
- Keep portable RF communication devices (including peripheral equipment, such as antenna cables or external antennas) at least 30 cm away from all device parts.
- Failure to comply with the above could impair the performance of the device.

INFORMATION ABOUT THIS THERMOMETER

Temperature measurement in the anus (rectal)

This measurement method is the most reliable and accurate. Guide the tip of the thermometer carefully 2 to 3 cm into the anus.

Temperature measurement in the oral cavity (oral)

Insert the tip of the thermometer into one of the two heat pockets under the tongue or next to the root of the tongue. Keep your mouth closed during the measurement to ensure the measurement is not affected by inhaled or exhaled air.

Temperature measurement under the armpit (axillary)

This measurement method is relatively imprecise, therefore it cannot be recommended from a medical point of view.

Measurement method	Recommended duration of measurement	Mean deviation from rectal method
in the rear passage	until the acoustic signal	–
in the oral cavity	until the acoustic signal	–0.4 °C to –1.5 °C (–0.7 °F to –2.7 °F)
under the armpit	min. 5 minutes	–0.7 °C to –2.0 °C (–1.26 °F to –3.6 °F)

USAGE



*Abb. 1

Briefly press the ON/OFF button to switch on the device. A short acoustic signal confirms that the device is switched on. The thermometer first conducts a self-test for approx. 2 seconds. All segments of the display are visible during this time*. The last measured value is then shown. The reference value of 37 °C (98.6 °F) will then appear. Then the measurement symbol "°C" ("°F") flashes and "Lo °C" ("Lo °F") is shown on the display. The thermometer is ready for use. During the measuring process the current temperature value is continuously shown and the "°C" ("°F") symbol flashes. Measuring ends when a stable temperature is reached. An acoustic signal will sound (10 long beeps), the "°C" ("°F") symbol will no longer flash, and the measured temperature will be displayed. Whilst the measured temperature remains below 32 °C (90 °F), the measurement symbol "°C" ("°F") will flash and "Lo °C" ("Lo °F") will be shown in the display. Higher values are displayed immediately. If temperatures of 37.8 °C (100 °F) or higher are measured, a fever indicator will sound (30 short beeps in 10 seconds). If temperatures above 42.9 °C (109.9 °F) are measured, the "Hi °C" ("Hi °F") symbol will appear. The measurement takes much less time than conventional thermometers and only lasts approx. 10 seconds for rectal measurements. More accurate measurements are achieved by extending the duration of the measurement beyond the acoustic signal. When measuring under the armpits, the recommended duration of measurement should be adhered to even if the acoustic signal has sounded. To extend the battery life, please switch off the thermometer after taking a measurement by briefly pressing the ON/OFF button. Otherwise the thermometer will automatically switch off after approx. 10 minutes.

MEMORY

The last measured value is automatically saved. Press the ON/OFF button to display this value. The thermometer first carries out a self-test. Next, the last stored measured value is displayed for approx. 2 seconds and then the reference value of 37 °C (98.6 °F) and "Lo" are shown on the display. The thermometer is ready to take a measurement and the previously stored measured value is automatically replaced by the new measured value.

CHANGING THE UNIT OF MEASUREMENT

You can set the device to display the temperature in degrees Celsius (°C) or degrees Fahrenheit (°F). To set this, press and hold the ON/OFF button for more than 2 seconds when you switch on the device, until the unit of measurement changes. The saved value is displayed in the new unit of measurement.

BATTERIES

Replacing the batteries

The clinical thermometer contains a long-life alkaline-manganese battery (LR 41, 1.5 V) with a battery life of approx. 2000 measurements. The battery needs to be replaced when the battery symbol ▮ at the bottom right edge starts to flash. Pinch the battery compartment lid at the end of the device and pull it firmly back from the body of the device. Remove the old battery and replace it with a battery of the same type. The **+** symbol on the battery must be facing up. Then place the battery compartment lid back onto the housing.

CLEANING AND MAINTENANCE

Cleaning the device

The device must be cleaned and disinfected before and after each use. The thermometer is waterproof and can be briefly submersed in water or disinfecting solution for the purposes of cleaning or disinfecting without any problems. Clean the thermometer before disinfection. To do this, wipe it with a clean, soft cloth to remove any residue. There are two methods of disinfecting the device: Immerse the measuring tip of the device in isopropyl alcohol (70%) for 10 minutes or in Helipur® H plus N (concentration of 1.5%) for 15 minutes. After disinfection, rinse the measuring tip of the thermometer with water to remove any disinfectant residue. Do not use the device again until it is completely dry. The thermometer must not be boiled under any circumstances! Other disinfectants or methods can lead to malfunctions or damage the device.

Storing the device

Please store the thermometer with the original protective cap fitted when it is not in use. The device must not be stored or used at excessively high or low temperature or humidity levels ("Technical specifications"), in sunlight, connected to a power source, or in dusty locations. Measurement inaccuracies can otherwise occur.

WHAT IF THERE ARE PROBLEMS?

Display	Cause	Solution
"Lo"	The measured temperature is below 32.0 °C (90.0 °F).	Switch off the device, wait for one minute and then take a new temperature measurement, ensuring close contact and sufficient rest.
"Hi"	The measured temperature is over 42.9 °C (109.9 °F).	Switch off the device, wait for one minute and then take a new temperature measurement, ensuring close contact and sufficient rest.
"Err"	The device is not working properly.	Remove the battery and wait one minute. Re-insert the battery and switch on the device. If the message reappears, contact your retailer for assistance.
▮	Flat battery: Battery indicator flashes, measurement not possible.	Replace the battery.

DISPOSAL

For environmental reasons, do not dispose of the device in household waste at the end of its service life. Dispose of the device at a suitable local collection or recycling point in your country. Dispose of the device in accordance with EC Directive – WEEE (Waste Electrical and Electronic Equipment). If you have any questions, please contact the local authorities responsible for waste disposal.

Empty, completely flat batteries must be disposed of through specially designated collection boxes, recycling points, or at electronics retailers. You are legally required to dispose of the batteries appropriately.
The codes below are printed on batteries containing harmful substances: Pb = Battery contains lead, Cd = Battery contains cadmium, Hg = Battery contains mercury.

Pb Cd Hg

TECHNICAL SPECIFICATIONS

The accuracy of this thermometer has been carefully checked and it has been developed with a long service life in mind.
If the device is used in the professional medical environment, the applicable national regulations determine whether it must be tested for accuracy by appropriate means. We reserve the right to make technical changes to improve and develop the product.

Type	FT 16
Measurement method	Contact measurement
Measurement units	Celsius (°C) or Fahrenheit (°F)
Operating mode	Direct mode
Measurement range	32.0 °C (90.0 °F) to 42.9 °C (109.9 °F)
Measurement accuracy	±0.1 °C from 35.5 °C–42.0 °C (95.9 °F–107.6 °F) at an ambient temperature of 18 °C–28 °C (64.4 °F–82.4 °F) ±0.2 °C for other measurement and ambient temperature ranges
Operating conditions	5 °C (41 °F) to 40 °C (104 °F), at a relative humidity of 15% to 95%, ambient pressure: 700–1,060 hPa
Storage and transport conditions	–20 °C (–4 °F) to 55 °C (131 °F), at a relative humidity of 15% to 95%
Weight	approx. 13.3 g (with battery)
Dimensions (WxDxH)	141 x 23 x 13 mm
Power supply	1 x 1.5 ⎓ LR 41 battery
IP class	IP 27
Expected service life	Information on the product's service life can be found on the website.

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

This device complies with the relevant national regulations and European standard EN 60601-1-2 (Group 1, Class B, in compliance with CISPR 11, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-8, IEC 61000-4-39) and is subject to special precautionary measures with regard to the electromagnetic compatibility. Please note that portable and mobile HF communication systems may interfere with this device.

GUARANTEE/SERVICE

Further information on the warranty and warranty conditions can be found in the warranty leaflet supplied.

Notification of incidents

For users / patients in the European Union and identical regulation systems, the following applies: If a major incident occurs during or through use of the product, notify the manufacturer and/or their representative of this as well as the respective national authority of the member state in which the user/patient is located.

Subject to errors and changes

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