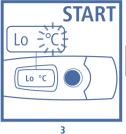


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EN Pictogram explanation **Error** Switching on Automatic system test Thermometer is ready for use Measurement times at the

- respective measurement site
- 5 4x beep tone: successful
- measurement Switching off
- "Err" on the display, no beep tone:
- system error Incorrect measurement
- Keep On/Off button pressed
- Memory is displayed as long as the On/Off button is pressed

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EN Instructions for use

We are pleased that you have chosen to purchase a thermometer from HARTMANN. Use this device in accordance with these instructions for use and carefully store these instructions

Package contents Digital thermometer incl. 1.5 V LR41 battery Protective casing Instructions for use

Explanation of display symbols

Digits and symbols of the display Battery is empty

- System error or measuring error
- Temperature below 32.0°C Temperature above 43.9°C Display of last temperature reading

⚠ Important instructions for use Intended use

The Thermoval rapid/kids/kids flex thermometer is a reusable, digital thermometer for rectal, oral or axillary measurement that is intended for temporary monitoring of the body

- takes interfaced to temporary to temporary to the body temperature of humans and can be used by laypersons and healthcare professionals in clinical and domestic settings. A high temperature or persistent fever requires medical treatment, especially in small children. Please consult your
- Self-diagnosis based on these temperature readings or administering treatment on their basis may carry an unacceptable medical risk or even worsen the symptoms
- Unacceptable medical risk or even worsen the symptoms. For this reason, do not interpret measured values yourself and do not use them to self-prescribe treatment. Follow the instructions provided by your doctor. If the body temperatures measured in the rectum, the mouth or the armpit can differ from one another. This must always
- Please note that correct temperature measurement is influenced by numerous factors, particularly, but not limited
- to, the measurement site, the condition of the measurement site, duration of measurement, method of measurement/use as well as drinking, eating, smoking, bathing and physical exertion prior to the measurement

If measured values seem incorrect, repeat the measurement.

- A Safety instructions concerning the device Do not leave the device unattended near small children or persons who cannot operate it themselves. Store the
- device, the packaging and the batteries accordingly in an inaccessible place. Some components of the device could ne swallowed Do not use the device if you detect or suspect damage. In
- porticular the measuring tip must be undamaged.
 Protect the device from mechanical influences, strong
- Protect the device from international muterices, storing shocks, impacts or vibrations and do not drop it.
 Do not bring the device into contact with hot water.
 Do not expose the device to extreme temperatures and direct sunlight.

- Do not modify, dismantle or repair the device yourself. Do not use the device directly next to or between other electronic products or near strong electromagnetic fields, and keep at a distance from radio equipment, mobile phones, high-frequency surgical equipment and magnetic resonance imaging equipment. Portable, mobile or wireless high-frequency and communication devices, such as telephones and mobile phones (including any accessories), should be used no closer than 30 cm to the thermometer. (Further documentation in accordance with the electromagnetic compatibility standard can be requested
- from customer service, see contact details below). Please comply with the storage, transport and operating conditions (see "Technical data"). The thermometer tip contains nickel and can therefore cause
- The definition of positions makes and can define the definition of all ergics allergics reactions.
 Using the thermometer on different people may not be suitable if certain acute infectious diseases are present, because germs may be transferred from one person to another despite mandatory cleaning and disinfection. Ask your treating doctor if you are unsure.
 Applies only to Thermoval kids flex: The flexible tip must not
- be bent to the side by more than 45°. If the safety instructions are not followed, the measuring

accuracy, the display as well as the functionality of the device can be influenced or faulty, or a health hazard cannot be ruled out!

Operating instructions

Measuring methods

In the rectaum (rectal) This is, from the medical point of view, one of the most reliable measuring methods, because it comes very close to the core body temperature. For this method, insert the thermometer tip carefully into the anus up to a maximum of 2cm. The usual measurement time is approximately 10 to 15 seconds.

In the mouth (oral)

There are different heat zones in the mouth. As a general rule the oral temperature is 0.3 to 0.8°C lower than the rectal temperature. To ensure that the reading is as accurate as possible, place the thermometer tip on the left or right of the possible piece the international terms of the terms of terms of the terms of terms o your mouth closed during the ongoing measurement and breathe evenly through the nose. Do not eat or drink anything directly before the measurement is performed. The usual measurement time is approximately 10 to 30 seconds.

Under the arm (axillary)

Placing the thermometer in the armnit provides a measuremen of surface temperature that can differ by around 0.5 to 1.5°C from rectal temperature readings in adults. The usual measurement time for this method is approximately 10 to 40 seconds. It should be noted, however, that an accurate reading cannot be obtained if, for example, the armpits have been allowed to cool. In order to obtain a reading that is as precise as possible and that corresponds as closely as possible to the core body temperature, we recommend extending the measurement time by 3 minutes.

A Note regarding minimum measurement time The measurement time depends on the measurement site. The measurement must not be finished before the signal tone is sounded. If the measuring time is prolonged beyond the displayed end of the measurement, the displayed temperature can further increase

Carrying out the measurement

To take a measurement, press the On/Off button next to the display. A signal tone is sounded, followed by an automatic functional self-test, during which all the digital segments are visible for an optical check of the LCD display.

Upon release of the button, "ok" briefly appears on the display, followed by "Lo". As soon as the "°C" symbol flashes, the device is ready to take a measurement. During the ongoing the device is ready to take a measurement. During the ongoing measurement, the current temperature is continuously displayed and the "C" symbol flashes. Once sufficient temperature stability has been reached, an acoustic signal (4x5 short signal tones) is sounded, the "CC" symbol no longer flashes and the temperature value measured up to that point in time is displayed. If the temperature measured, or the ambient temperature, is outside of the measuring range, then "Lo" or "HI" is shown on the display

"HI" is shown on the display. If the ambient temperature is above 35°C, dip the measuring tip into cold water for approximately 5 to 10 seconds before performing the temperature measurement.

After finishing the measurement, please switch off the thermometer by pressing the On/Off button. This is followed by a beep. The maximum temperature value that was determined before switching off is stored in the memory until the next measurement is performed.

In order to call up the reading memory, keep the On/Off button pressed when switching on until the reading, that was saved automatically when the last measurement was performed, appears on the display along with "M" and "°C".

Cleaning and disinfection

In order to prevent cross infections, ensure adequate hygiene by cleaning and disinfecting the device before and after each

- Clean the device and the measuring sensor with a moist cloth and a mild detergent or a suitable disinfectant, e.g. 70% isopropyl alcohol solution (active substance:
- The device is waterproof. You can therefore immerse it in
- Indevice is weappool, for call therefore initialize that liquid or lukewarm water for a full cleaning and disinfection.
 Do not immerse the thermometer in liquid for longer than 30 minutes, and do not immerse it any deeper than 15cm.
- Please do not use any aggressive cleaning agents or solvents as these can damage the device and cause the display to become opaque.
 To protect it from external influences, you can store the
- thermometer in the protective casing

A Power supply (battery)

The battery is included in delivery and is already inserted in the device. The Thermoval device is immediately ready for use. When the battery symbol 💶 lights up, you should replace the battery. To do this, carefully remove the battery cover and then remove the battery, taking care not to pull the electronic components out of the device in the process. When closing the battery compartment, make sure that the locking mechanism

(37.0 °C/

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 Remove empty batteries immediately and replace them with new batteries of the same type. Take note of the polarity labels plus (+) and minus (-).

Disposal information To protect our environment, empty batteries must not be disposed of in household waste. Please comply with the relevant waste disposal regulations or use public collection

his product is subject to the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment and is marked accordingly. Never dispose of electronic equipment in your household waste. Please obtain information about your local regulations on the proper disposal. This protects the environment and human health. R

Technical data	
Product description:	Compact clinical electrical thermometer with maximum device
Model:	Thermoval
Гуре:	rapid/kids/kids flex
Measuring range:	32.0 to 43.9°C
Smallest display unit:	0.1°C (measuring unit: degrees Celsius)
Measuring accuracy:	+/- 0.1°C for the entire measuring range
Operating mode:	Measurement in direct mode, intermittent (non-extrapolating)
Acoustic signal:	Switching on, switching off, end of measurement.
Memory capacity:	1 reading (autom. saving of the last reading)
Acoustic fever signal:	None
Operating conditions:	Ambient temperature: +5 to +40°C Relative humidity: 15 to 90%, non- condensing
Storage / transport	Ambient temperature: -25 to +55°C
conditions	Relative humidity: 15 to 90%, non- condensing
Automatic switch-off	Approx. 10 minutes after end of
function:	measurement (approx. 3 minutes if no measurement is performed)
Battery type:	1.5 V alkaline manganese button cell (LR41)
Battery capacity:	At least 4000 measurements
Protection against	IP67: Dust-proof and protected against
harmful ingress of water or solid materials:	the effects of temporary immersion
Service life (operating	5 years

Reference to standards: DIN EN ISO 80601-2-56:2020;

ASTM E1112-00; DIN EN 60601-1:2013; DIN EN 60601-1-2:2016

Instructions for the metrological check We recommend carrying out a metrological check every 2 years for devices in professional use, for example, at pitals, medical practices and nursing homes. In addition please also follow the national regulations specified by the legislator. Metrological checks should only be carried out by the competent authorities or authorised maintenance providers at the user's expense.

Warranty conditions

We offer a 3-year warranty for this thermometer from the purchase date and in accordance with the conditions listed

This device is solely intended for the purpose stated in these instructions for use. The manufacturer is not liable for damage or injuries resulting from improper handling, use or unauthorized interference. Within the warranty period, HARTMANN will replace or

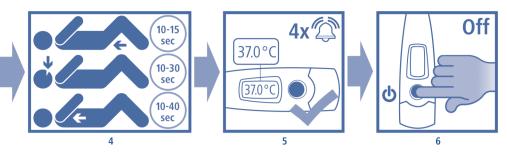
repair free of charge any faulty device components caused by material faults or manufacturing errors. This does not extend the warranty period. Accessory parts that are subject to wear and tear (battery,

protective casing, packaging etc.) are excluded from the warranty. Claims for compensation are limited to the value of the product; compensation for consequential damage or iniuries is expressly excluded. Warranty claims must be made during the warranty period. Please send the device with protective casing and the purchase receipt, directly or via your dealer to the Customer Service department for your country.

Customer queries

If necessary, please contact us at the relevant address listed at the end of the instructions for any questions regarding initial startup, use and maintenance of the device, or to report an unexpected operating malfunction or incident. For a patient/user/third party in the European Union and in countries with identical regulatory regime (Regulation 2017/745/EU on Medical Devices); if, during the use of this device or as a result of its use, a serious incident has occurred. please report it to the manufacturer and/or its authorized representative and to your national authority. Date of revision of the text: 2020-05-07, Version 3 Subject to errors and changes







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Contact details for customer queries

Explanation of symbols

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Se Fr 21 E- W	UL HARTMANN AG vice Center Diagnostic edrich-Penseler-Str. 17 37 Lüneburg Jail: customer.care.center@hartmann.info vw.veroval.de : 0880-400 400 9
UT Se 23 Te E-	UL HARTMANN Servicevertragspartner S Geräte Service Ges.m.b.H. hdnergasse 30 QS Schwechat .: 0043-1 706 14 15 Jail: office@uts.at ww.veroval.at

www.veroval.at CH-UVF HARTMANN AG Victor-von-Bruns-Strasse 28 Postfach 634 &212 Neuhausen Tel: +41 (0)52 674 31 11 E-Mail: info@ivf.hartmann.info www.veroval.ch

1	Follow instructions for use
MD	Medical Device
	Manufacturer
	Date of manufacture
LOT	Batch code
REF	Catalogue number
	Caution (Please note)
	Temperature limit
	Humidity limitation
*	Protection against electric shock (type BF)
UDI	Unique Device Identifier
	Distributor
IP67	Protection type due to housing
	Symbol for the marking of electrical and electronic equipment
R	Dispose of packaging in an environmentally responsible way
Ċ	Dispose of packaging in an environmentally responsible way
	Dispose of packaging in an environmentally responsible way
PAP	Cardboard recycling code
PAUL HARTM Paul-Hartmar 89522 HEIDE www.hartma	nn-Straße 12 C C C NHEIM, GERMANY 0 1 2 3

925 032/4 (300720)
