

Thermoval® rapid

General Product Description/Intended Purpose

The Thermoval® rapid thermometer is a reusable, digital thermometer for rectal, oral or axillary measurement that is intended for temporary monitoring of the body temperature of humans and can be used by laypersons and healthcare professionals in clinical and domestic settings.

Thermoval® rapid is a digital maximum thermometer in direct measuring mode (non-extrapolating) and therefore is a real measuring and not a predictive measuring device.

Application/Indication

Thermoval® rapid is applicable for the determination and monitoring of human body temperature in the rectum, the mouth or the armpit.

The digital pen-type thermometer is equipped with a rigid measuring tip, extra-large LCD display, on/off button, removable battery cap and with a plug-on transparent protective case. It displays the measured temperature in °C, has battery sign, beeper signal, automatic switch-off function and single memory function. It is battery powered using a replaceable long-life battery, is waterproof and free of Latex, PVC (polyvinyl chloride), DEHP (diethylhexyl phthalate) and Mercury (Hg).

The device can be switched on by pressing the on/off button and a long signal tone confirms that the thermometer is operational. The flashing of the “°C” symbol indicates when the thermometer is ready for temperature measurement and an acoustic beeper signal indicates when the measurement is completed.

Thermoval® rapid measures the body temperature within following times:

- rectal: 10-15 sec
- oral: 10-30 sec
- axillary: 10-40 sec

(The above measurement periods are average experience values in dependence of the correct placement of the measurement tip and of individual conditions.)

Cleaning of the product is possible with a slightly moistened cloth with water and a mild detergent or by applying 70 % Isopropyl alcohol with a damp cloth. Disinfection of the product is recommended to perform by wipe disinfection applying a suitable disinfectant which is compatible with the product materials.

The housing colour of Thermoval® rapid is white. The colour of on/off button is blue.

Reference Numbers

The product is available in four different language circles:

Article-No.:	Product name:	Languages:	Packaging:
925031	Thermoval® rapid	DE,FR,IT,NL,HU	P12, OK4
925032	Thermoval® rapid	ES,PT,EL,AR,EN	P12, OK4
925033	Thermoval® rapid	CS,SK,RO,BG	P12, OK4
925034	Thermoval® rapid	SI,HR,TR,ZH,EN	P12, OK4

The Thermoval® rapid thermometer device is identical for all different language circles.

Each fever thermometer device includes an installed battery, is equipped with a plug-on protective cover and packed inside a folding box made of cardboard. The folding box also contains the instructions manual leaflet.

12 products/folding boxes are packed in one display box.

Thermoval[®] rapid

Warnings



For information on important safety instructions, please refer to the sections marked with the “Caution” symbol in the Thermoval[®] rapid instructions for use.

Product Disposal



This product is subject to the European Directive 2012/19/EU on Used Electrical and Electronic Equipment and is marked accordingly. Never dispose of electronic equipment in your household waste. Please obtain information about local regulations on the proper disposal of electrical and electronic products.

Proper disposal protects the environment and human health.

Packaging Materials

All packing materials and packing components conform to the relevant essential requirements (specific to manufacturing and composition, reusable nature and recoverable nature of packing) of the Packaging and Packaging Waste Directive 94/62/EC and amended directive 2004/12/EC respectively.

Incident Reporting

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 authorised representative and to your national authority.



Material Characteristics

Thermoval[®] rapid

Product component:	Material composition
Housing incl. battery cover:	ABS (Acrylonitrile-Butadiene-Styrene)
LCD display panel:	AS (Acrylonitrile-Styrene) or PC (Polycarbonate)
Sensor tip:	SUS304 (Stainless steel with part of Nickel: 8.0 - 10.5 %)
On/Off button:	TPE (Thermoplastic Elastomere)
Protective cover:	AS (Acrylonitrile-Styrene), transparent

Thermoval[®] rapid

Product Characteristics

Thermoval [®] rapid	
Property	Characteristics
Product description:	Compact clinical electrical thermometer with maximum device
Measurement range:	32.0 to 43.9 °C
Smallest display unit:	0.1°C
Measurement unit:	Degrees Celsius
Display:	3-digit LCD display
Measurement accuracy:	± 0.1 °C for the entire measurement 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)
Low temperature indication:	“Lo °C” symbol if detected temperature is < 32.0°C
High temperature indication:	“Hi °C” symbol if detected temperature is > 43.9°C
Acoustic fever signal:	None
Operating conditions:	Ambient temperature: +5 to +40°C; Relative humidity: 15 to 90%, non-condensing
Storage/transport conditions:	Ambient temperature: -25 to +55°C; Relative humidity: 15 to 90%, non-condensing
Automatic switch off function:	Approx. 10 minutes after end of measurement (approx. 3 minutes if no measurement is performed)
Voltage limit indication:	 Battery symbol when battery is empty
Self check function:	 “Err” symbol if device or sensor is defective
Battery type:	1.5 V alkaline manganese button cell (LR41)
Battery capacity:	At least 4000 measurements
Protection against harmful ingress of water or solid materials:	IP67: Dust-proof and protected against the effects of temporary immersion
Service life (operating life):	5 years
Device dimensions:	approx. 130.5 x 22 x 12.7 mm (L x W x H)
Device weight:	approx. 18g (incl. battery / without protective cover)
Reference to standard:	DIN EN ISO 80601-2-56:2020; ASTM E1112-00; DIN EN 60601-1:2013; DIN EN 60601-1-2:2016

(Technical modification subject to change)

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Labelling

LOT number with 4-digit code:

e.g.: 2101



21

01

year of production

week of production

Manufacturing Date with 8-digit code:

e.g.: 2021-01-01



2021

-

01

-

01

year

month

day

Medical Device:



Thermoval® rapid is a class IIa active medical device with measuring function in accordance with the (MDR) Medical Device Regulation (EU) 2017/745 and bears the CE-mark.



UMDNS Code: 14-032

GMDN Code: 14035

CND Code: V03010102

Unique Device Identifier (UDI):



Each device and all higher levels of packaging are labeled with an UDI code. (implementation date according to Regulation 2017/745/EU on Medical Devices)

Latest Date of Revision: 2020-09-04