



# THERMOFOCUS®

non-contact clinical thermometer

Series **0800**

hospital version H5



Thermofocus er verdens første NON-CONTACT kliniske termometer, som måler temperaturen på patienten, - helt uden berøring.

Ring og få et termometer gratis på prøve: tlf. 36 16 64 88

## HYGIENIC

THERMOFOCUS® never touches the patient and does not need to be disinfected, and therefore the possibility of cross contamination is eliminated.

## COMFORTABLE

THERMOFOCUS® is absolutely not invasive, so the patient does not need to be awake nor cooperative. The device does not have to be inserted in any part of the body.

## IMMEDIATE

THERMOFOCUS® visualizes the temperature value on the display in less than one second.

## ACCURATE

THERMOFOCUS® takes the temperature with consistency and precision thanks to its **patented optical aiming system**. Two harmless converging lights shows quickly and clearly the right distance at which the measurement has to be taken without possibility of mistaking .

## UNIQUE

THERMOFOCUS® eliminates all the uncontrollable variables which do not depend on the operator (such as the presence of wax in a tympanic measurement or the moving or wrong placement of the thermometer in a axillary measurement). Only with Thermofocus® the operator can be completely sure that the measurement is taken under his/her total control.

## ECONOMICAL

THERMOFOCUS® does not need to be cleaned nor disinfected and does not require the use of expensive hygienic disposables. That means that a hospital would save a great amount of both time and money. A medium-sized hospital would save several thousands of Euro per year.

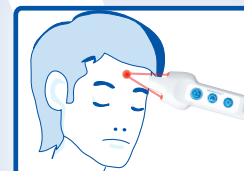
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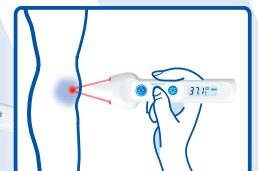
Neonatal incubators



Room temperature




Body temperature



Skin temperature

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 **MEDICOLINE**

THERMOFOCUS® registers the infrared emissions coming from the forehead. The forehead is the sole part of the body not covered by hair to be in direct contact with the brain, which is the most delicate and important organ of the body and that which can get most damaged by a high temperature. Moreover, the head is the first area of the body to change its temperature when fever goes up or down.

For each measurement THERMOFOCUS® makes, in less than one second, a series of 125 registrations, which are elaborated by its sophisticated microprocessor together with the value of the environment temperature. The data collected are compared to parameters recorder in the device's memory: the results of these elaborations is the temperature value shown on the display.

All infrared thermometers have to be stabilized at the temperature of the room where they are going to be used. This stabilization may require from 5 to 30 minutes, according to the difference of the temperature between the device and the environment.


THERMOFOCUS® is the only thermometer in the world that does not require such a wait, as it can adapt itself to the room temperature immediately, thanks to two exclusive patented systems:

- the **AQCS** (Automatic Quick Calibration System) activates when the device register a sensible change of temperature. A countdown automatically stabilizes the thermometer at the new temperature in only 3/5 minutes.

- the **MQCS** (Manual Quick Calibration System) is an extremely functional manual system which allows for an instant stabilization. This system is especially useful for ambulances and doctors who visit patients at their home, and every time the thermometer is used in environments with a different temperature such as in hospital wards or in neonatal incubators. In these cases we recommend to make the manual calibration in each room, possibly by using the appropriate "Target Disc", placed in a suitable position. Instructions of use for the MQCS are written both on the device's battery cover and on the included lanyard, so that, in case of doubt, the operator may perform it correctly in just a few seconds. When the device is used in the "nurs" mode, the MQCS is compulsory.

Thermofocus 0800H5 may be set either in the "nurs" mode when used by nurses in hospital or ambulance, or in the "doct" mode, when used by doctors and in the Emergency Room.

THERMOFOCUS® registers the body temperature in just a few seconds, in the middle of the forehead.

In order to make a correct measurement, simply push the  button while approaching the thermometer perpendicularly to the middle of the forehead, until the two lights converge into one single point of light; release the button and hold the thermometer until the lights blink. The display will show the temperature value. After 20 seconds, the display will then go into stand-by mode visualizing the room temperature for 15 minutes in "nurs" mode, or 45 minutes in "doct" mode, before turning off automatically.



With THERMOFOCUS® it is possible to take any measurements between 1 and 55°C (33.8 - 131.0°F), including the skin temperature in different areas of the body. It is thus possible to discover, by means of a comparison between the temperatures of two close or symmetrical areas, the presence of inflammations or circulatory problems to check the healing process of open wounds or burns, or to control the temperature of organs during surgeries, which represents a revolutionary innovation in all medical activities.



Further improved after the use during the SARS emergency and adapted to the needs of operators following the tests in many hospitals



Frost & Sullivan, the famous international consulting agency for economic business development, has rewarded Thermofocus for its innovative technology and its contribution to the protection of health



### TECHNICAL CHARACTERISTICS

Distance of operation from the subject fixed through optical signal: about cm 3 (1.2 inch)

Forehead measurements accuracy:

from 36 to 39°C (96.8-102.2°F) = +/-0,2°C

from 34 to 35,9°C (93.2-96.7°F) and

from 39,1 to 42,5°C (102.3-108.5°F) = +/-0,3°C

- ASTM E 1965-98(2009) compliance

Forehead measuring range: from 34 to 42,5°C (93.2-108.5°F)

Other measuring range: from 1 to 55°C (33.8-131.0°F)\*

Ambient temperature working range: from 16 to 40°C (60.8-104.0°F)\*\*

\*these measurements are not entirely accurate an must be considered as relative rather than absolute values

\*\* the device can also work in environments with a temperature between 5 and 16°C (41-60.8°F) but we do not guarantee the accuracy and the measuring range.

Power supply: 4 alkaline batteries type AAA (LR03) 1,5 V (included)

Life span: 20.000 measurements or up to 3 years (according to use)

Dimensions: mm 165 x 40 x 21,9 (inch 6.5 x 1.45 x 0.86) (protective cap incl.)

Weight: grams 90 (2.89 oz) - (batteries included)



Medical device class IIa  
Compliance to 93/42/CE.  
Quality system ISO 9001:2008,  
ISO 13485:2003 and ISO 13485:2003 CMDCAS,  
EN 60601-1 and UNI CEI EN ISO 14971:2009

Approved and exported in: Europe (CE), USA (FDA), Australia (TGA), Japan (KOSEISHO), Korea (KFDA), China (SFDA), Israel, Singapore, Hong Kong and many other countries.



Thermofocus® is protected by these patents:  
MI 1.284.119, EP 0909.377, US 6.196.714,  
IL 127.876, JP 504769/98, EP 1.283.983,  
US 7.001.066, JP 3.863.919 and others international patents pending.

Target disc and MQCS



The box includes:

- nr. 1 Thermofocus® series 0800, nr. 4 batteries AAA, nr. 1 user manual,
- nr. 1 lanyard to be worn around the neck and nr. 1 "Target Disc" and the descriptive DVD.



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