

Be sure. **testo**



IR Guide

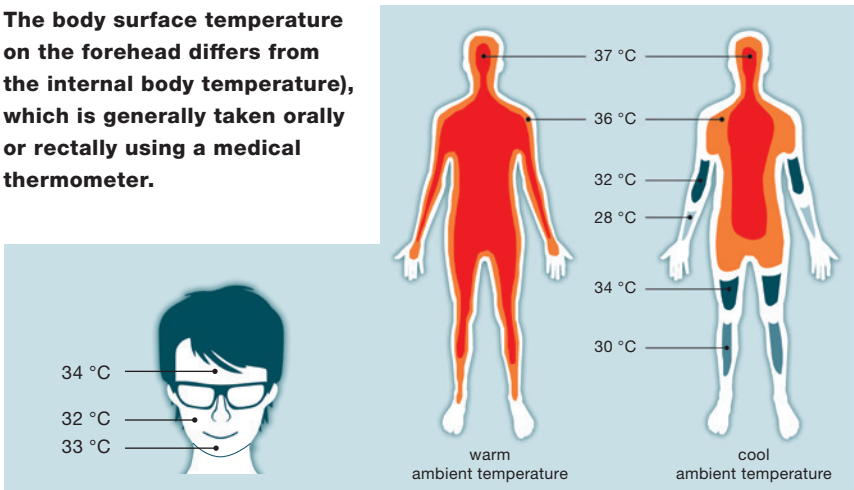
Measuring body surface temperature

Tips for using Testo infrared measuring instruments to record body surface temperature.

Safety information

- The Testo infrared temperature measuring instruments are not approved for medical use.
- The Testo infrared temperature measuring instruments are measuring instruments for the non-contact measurement of body surface temperature.
- The infrared temperature measuring instruments are not suitable for diagnostic measurements in the medical sector. The use of the infrared temperature measuring instruments is not a substitute for consulting a doctor.
- Testo recommends use as a comparative measurement for detection purposes in groups of people.
- Due to the measurement uncertainty (up to $\pm 1.5\text{ }^{\circ}\text{C}$), an absolute determination of the temperature is not recommended. As mentioned in the last point, Testo measuring instruments should be used for comparative measurements.
- The infrared temperature measuring instrument and the person to be measured must remain in the same environment (with stable temperature and humidity) for at least 15 minutes before carrying out the measurement.
- The Testo IR measuring instruments are not designed to be operated by persons (including children) with restricted physical, sensory or mental capabilities, or by persons with insufficient experience and /or knowledge, unless they are monitored by a person responsible for their safety or if they have been instructed to use the Testo IR measuring instruments.

• **The body surface temperature on the forehead differs from the internal body temperature), which is generally taken orally or rectally using a medical thermometer.**



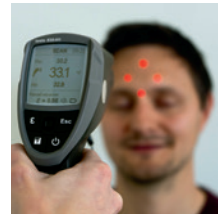
- In the following cases, a control measurement with a conventional fever thermometer is recommended.
 1. If the measured value is lower or higher than expected
 2. For new-born babies up to 100 days
 3. For children under three years who have a weakened immune system or who react unusually in the presence or absence of fever
 4. If you are using the infrared temperature measuring instrument for the first time or are accustomed to it.
- If an error occurs or the instrument is damaged, do not attempt to repair the instrument yourself, otherwise the warranty becomes void.
- Do not use the infrared temperature measuring instrument in humid surroundings.
- Do not measure with a fogged lens.
- Do not shake or tap on the infrared temperature measuring instrument.
Do not drop it.
- Protect the instrument from direct sunshine, extremely high or low temperatures, dirt and dust.
- In Testo infrared temperature measuring instruments, the emissivity is pre-set at 0.95 at delivery. The correct emissivity for human body surface temperature measurements is **0.98**. Please read the instruction manual to find out how to **set the emissivity to 0.98**.

A temperature measurement – fast and accurate!

Infrared temperature measuring instruments allow non-contact measurement of body surface temperature. The temperature is measured on the forehead between the eyebrows and the hairline. The value or the energy radiated at that point is measured and converted into a temperature value.

Procedure

1. Ensure that the emissivity is correctly set at 0.98.
2. Acclimatize the infrared temperature measuring instrument to the room temperature (15 minutes recommended).
3. The person should also have the possibility of acclimatizing to the ambient conditions in the measurement (15 minutes recommended).
4. Before the measurement, the person should make sure to close their eyes, so as not to look into the laser sighter.
5. Carry out the measurement on the forehead at a distance of approx. 5 cm.



Other information

- The person should not eat or drink directly before or during the measurement. Physical exertion should be avoided directly before or during the measurement.
- Clean the area where you are measuring the temperature and remove dirt, hair or sweat before you move the sensor into the measurement position.
- If the sensor becomes dirty during or after the measurement, clean it with a cotton bud which has been dipped in alcohol before you stow away the infrared temperature measuring instrument.
- Always measure the temperature at the same site, as the measurement values vary in different surroundings.

Subject to change, including technical modifications.

misp/04.2020