

DEVICE FOR MEASURING DEEP HUMAN TEMPERATURES

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The human body temperature is a vital sign that provides important information about an individual's health status. A change in body temperature, whether it is an increase or a decrease, can indicate the presence of an infection, inflammation, or other underlying medical conditions. Traditional methods of measuring body temperature such as oral, rectal, and axillary thermometry, have limitations in their accuracy and convenience [1-3].

Recently, there has been a growing interest in developing devices for measuring deep body temperature, which refers to the temperature of organs deep within the body, such as the liver, heart, and brain. Deep body temperature measurement can provide more accurate and reliable information about an individual's health status compared to surface temperature measurement.

In this thesis, we will present the development and evaluation of a device for measuring deep human temperatures. We will discuss the design and implementation of the device, as well as its performance in comparison to traditional methods of temperature measurement. We will also explore the potential applications of the device in clinical and research settings.

The results of this study may have significant implications for the monitoring and diagnosis of various medical conditions, such as infections, inflammation, and circulatory disorders. Furthermore, the development of a reliable and non-invasive device for measuring deep body temperature could improve patient comfort and reduce the risk of infection transmission.

Reference:

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