

A B S T R A C T

It is an object of the present invention to provide a radiation clinical thermometer which can improve the accuracy of a body temperature as a measurement result.

In order to achieve this object, according to the present invention, there is provided a radiation clinical thermometer including an infrared sensor for outputting an infrared detection signal upon reception of thermal radiations from an object to be measured, optical waveguide means for guiding the thermal radiations from the object to be measured to the infrared sensor, a temperature sensor for measuring a reference temperature and outputting a reference temperature signal, temperature difference detection means for detecting a temperature difference between the infrared sensor and the optical waveguide means and outputting a temperature difference signal, and temperature calculation means for receiving the infrared detection signal, the reference temperature signal, and the temperature difference signal and calculating a temperature data signal by correcting an error based on the temperature difference, wherein the temperature calculation means includes correction coefficient adjusting means for adjusting a correction coefficient for the temperature difference signal.

According to the present invention, since the temperature calculation means includes the correction

coefficient adjusting means for adjusting the correction coefficient for the temperature difference signal from the temperature difference detection means for detecting the temperature difference between the infrared sensor and the optical waveguide means, a radiation clinical thermometer can be provided, which can calculate temperature data upon properly adjusting the error amount based on the temperature difference between the infrared sensor and the optical waveguide means, and improves the measurement accuracy.