

Instructions

1. Usage: The Monitoring Ear Thermometer, the Receiver with new generation, is well designed to measure immediately the ear temperature of the infants, babies, and disable elderly, etc. when each of them has a cold or flue, and also needs to be taken care of overnight. The Receiver will be Beeping continuously to alarm the operator to take some adequate actions. The body sensor can be used for a longer period monitoring if abnormal temperature found.

2. Principle of Operation:

A. The Receiver:

- a. Ear temperature measuring: DC – DC starts offering power to the ear temperature mode when pressing ‘Ear Temperature Key.’ MCU communicates with the ear temperature mode by RS232 mode. The measured figures received by the Receiver are shown on the LCD. MCU shuts down automatically after operating by 15 seconds.
- b. Two-way wireless transmission: The receiver will command the body sensor via the two-way wireless transmission. The body sensor sends the measuring such as body temperature and power supply etc, back to the Receiver. The Receiver shows these figures via adequate processing from the measuring, flashing on the LCD, and Beeping continuously if the temperature out of the setting ranges.
- c. Low power supply alarm: Both the Receiver and the body sensor are self-detectable functioning to the power supply. The Receiver will be flashing, if low power supply, on the ‘Power Supply Indicator’ of the LCD, and Beeping continuously the operator to change the batteries.

B. The body sensor: The measuring comes from the body sensor attached on the armpit will be translated, via A/D, form MCU into body temperature, and then sends to the Receiver.

3. The design and the manufacturing of the circuit of this product:

This product is designed to use less parts via SMD parts and One Chip micro-control on the circuit not only to reduce the manufacturing cost and to save power supply, but also to become more competitive. The manufacturing process via SMT technique is to improve the yield rate. The wireless transmission is also designed to use the Chip to save the production process adjustment, as well as to avoid the mistakes from manufacturing process affecting the quality of this product.